Board of Zoning and Building Appeals
CITY HALL COUNCIL CHAMBERS
AGENDA OF JULY 24, 2025
7:00 PM

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

APPROVAL OF MINUTES

Regular meeting minutes dated June 26, 2025

PLANNING COMMISSION REPORT

OTHER REPORTS OR CORRESPONDENCE

PUBLIC HEARINGS

PPZ2025-0360 Robert & Michelle Howells, 5169 Lear Nagle Rd, PPN: 07-00-007-108-029
Proposal consists of an addition to a detached garage. Property is zoned RS-2 General Residence District. Request:

1. A 37-square foot variance for excessive lot coverage. Applicant shows 2,824 square feet (10.13%), code allows 2,787 square feet (10%), Section 1294.03(d).

PPZ2025-0361 Aaron Hartke & Morgan Sarver, 6651 Nicoll Dr, PPN: 07-00-009-120-080
Proposal consists of constructing a fence on a corner lot. Property is zoned R-1 Residence District. Request:

1. A 2-foot height and 100% opacity variance for a fence in the front yard on a corner lot. Applicant shows a 6-foot-high privacy fence, code allows a fence no greater than 4-feet-high and 50% open in the front yard, Section 1294.01(h)(2)(A).

PPZ2025-0363 North Ridgeville High School, 34610 Bainbridge Rd, PPN: 07-00-016-104-233
Applicant: Claire Bank, ThenDesign Architecture, 4230 River St, Willoughby, OH 44094. Owner: North Ridgeville City Schools Board of Education, 34260 Bainbridge Rd, North Ridgeville, OH 44039. Proposal consists of site lighting for High School. Property

is zoned R-1 Residence District. Requests:

1. A 16.5-foot variance for luminaire height. Applicant shows fixture heights of 32.5 feet for numerous luminaires*, code allows 16 feet in residential districts, Section 1285(d).
   *Luminaires: S2A3, S1B1, S2A1, EX3, EX5, S1, S2, S3, S3A, S3B, S5A, S5B.
2. A variance for excessive illumination levels in an open parking lot. Applicant shows:
   -Parking Area A: 2.94 fc
   -Parking Area B: 2.26 fc
   -Parking Area E: 2.53 fc
   -Parking Area F: 2.58 fc
   -Parking Area G: 2.89 fc
   Code allows 2.0 fc average, Table 1285.08-1.
3. A variance for excessive illumination levels at building entrances. Applicant shows:
   -Entrance A: 7.09 fc
   Code allows 5.0 fc average, Table 1285.08-1.

ADJOURNMENT

NORTH RIDGEVILLE BOARD OF ZONING AND BUILDING APPEALS
MINUTES OF
REGULAR MEETING – THURSDAY, JUNE 26, 2025

CALL TO ORDER:

Chairwoman Masterson called the meeting to order with the Pledge of Allegiance at 7:00 PM.

ROLL CALL:

Present were members Brad Weaver, Planning Commission Liaison Frank Toth, Vice-Paul Graupmann and Chairwoman Linda Masterson.

Also present were Chief Building Official Guy Fursdon, Planning and Development Director Kimberly Lieber, Assistant Law Director Toni Morgan and Deputy Clerk of Council Tina Wieber.

Excused was member James Cain.

MINUTES:

Chairwoman Masterson asked if there were any corrections to the minutes of the regular meeting on Thursday, May 22, 2025.

None were given.

Minutes were approved as submitted.

PLANNING COMMISSION REPORT

Chairwoman Masterson asked if there was a Planning Commission Report.

Planning Commission Liaison Toth noted that the North Ridgeville Planning Commission took action on the following items at their regular meeting of June 10, 2025:

Master Tree Plan
PC ACTION: Approved by a vote of 4-0.

PPZ2025-0354: Harvest Ridge Church, 35544 & 35600 Lorain Rd, PPN: 07-00-024-101-101, -109
Owner: Michael Moyes, Dobie Pallets, 35544 Lorain Rd, North Ridgeville, OH 44039. Proposal consists of rezoning parcel number 07-00-024-101-101 located at 35544 Lorain Road that is currently zoned I-2 Light Industrial District, and the eastern portion of parcel number 07-00-024-101-109 located at 35600 Lorain Rd that is currently zoned I-2 Industrial District be rezoned to R-1 Residence District.
PC ACTION: Approved by a vote of 4-0.

PPZ2025-0357: North Ridgeville High School, Phase 2, 34610 Bainbridge Rd, PPN 07-00-016-104-233
Applicant: Claire Bank, ThenDesign Architecture, 4230 River St, Willoughby, OH 44094. Owner: North Ridgeville City Schools, 34260 Bainbridge Rd, North Ridgeville, OH 44039. Proposal consists of constructing a new high school and demolition of old high school. Property is zoned R-1 Residence District.
PC ACTION: Approved by a vote of 4-0 with the following conditions:

1. Define bike parking and crosswalks on site plan.

2. Lighting plan will be administratively reviewed for zoning compliance.
3. Update the landscaping plan to ensure a dense buffer along Pitts Blvd properties in consultation with the City Arborist.
4. Provide 4-foot-wide end caps for each row of parking spaces in all parking lots.

OTHER REPORTS OR CORRESPONDENCE

PUBLIC HEARINGS:

PPZ2025-0344: Javier Feliciano, 5884 Rosebelle Ave, PPN: 07-00-020-108-019
Proposal consists of a detached garage. Property is zoned RS-2 General Residence District. Requests:
1. A 1-foot variance for side setback of a detached private garage (north). Applicant shows 4 feet, code requires 5 feet, Section 1294.03(a).
2. A 44-square-foot variance for area of detached private garage. Applicant shows 720 square feet, code allows 676 square feet, Section 1294.03(d)(1). Note: Garage also exceeds 26 feet in width.

Application was read.

Chairwoman Masterson asked if there was a representative for the application.

Javier Feliciano, 5884 Rosebelle Ave, North Ridgeville, OH 44039, was sworn in.

Chairwoman Masterson asked Chief Building Official Fursdon to give an overview of the case.

Chief Building Official Fursdon stated that the garage is 4 foot off the side property line requiring a 1 foot side yard variance. The ordinance allows 676 square feet. The applicant is proposing 720 square feet requiring a 44 square foot variance.

Chairwoman Masterson asked the applicant to discuss his request.

Mr. Feliciano stated that he was requesting a setback of 1 foot off the side property line for the new garage and was looking to get a 44-foot variance for the carport.

Chairwoman Masterson asked what his practical difficulty was.

Mr. Feliciano stated that he was trying to keep the new garage and trying to make it a two-car garage with just a carport so they could eliminate all the square footage that was too much from the beginning.

Chairwoman Masterson commented that he stated he was going to bring an attorney with him last time.

Mr. Feliciano stated that unfortunately there was a lot of misunderstandings. He stated that he didn't know if she knew about the case or she knew how to work with the case and kind of just backed off from it. He stated that his new lawyer didn't do that type of stuff, so he was back to himself.

Chairwoman Masterson commented that to be clear, he built the building without a permit and his practical difficulty, the reason that he kept coming back before the Board, was because he built a

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building without permits.

Mr. Feliciano stated that was correct.

Chairwoman Masterson stated that his builder had absconded with his money and so his difficulty was that and he was now asking for a 10 by 24 carport. She asked Mr. Fursdon if a carport was allowed under the building code.

Chief Building Official Fursdon stated that under the zoning code it was considered as also a garage, so it was part of the garage. He explained that his total garage was 720 square feet, and the code allowed 676 for that property, so it required the 44 square foot area variance.

Chairwoman Masterson stated that the first time Mr. Feliciano came before the Board he stated that the reason he built that building was because he didn't want his trucks outside in the wintertime and asked if that was correct.

Mr. Feliciano stated that was correct.

Chairwoman Masterson asked what he would be using the carport for.

Mr. Feliciano stated that he would be using it for his kids, so they could have a play area with a picnic table.

Chairwoman Masterson read through the Duncan Factors and asked if any of the Board members had any questions or comments.

Planning Commission Liaison Toth remarked to Assistant Law Director Morgan that typically when they would be hearing testimony regarding a variance, it would be for a structure that did not exist. He asked if there was a legal vehicle that they could attach the variance to that particular building, allowing it to sunset when that building collapsed, came down, whatever, but would not be able to be reproduced as it stood today. He asked if they were able to sunset that somehow.

Assistant Law Director stated that if they wanted to approve it only for that building or that structure, and if he needed to, he would not be able to add to it, she thought that would be very reasonable.

Mr. Feliciano stated that he learned his lesson and didn’t want to go through that again.

Chairwoman Masterson asked if there were any other comments or questions.

Vice-Chairman Graupmann commented that he had been before them four times now and asked if the application was significantly different than the last time he was there.

Mr. Feliciano stated that it was.

Chairwoman Masterson asked Chief Building Official Fursdon what the reduction was.

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Mr. Fursdon stated that he believed the first variance request was 300 square feet and now he was down to 44 square feet.

Chairwoman Masterson asked what the percentage of the variance was that he was requesting.

Chief Building Official Fursdon stated that it was less than 10% of the allowable area.

Assistant Law Director Morgan stated that the Planning Director in her notes indicated in July of 2024 there were two variances and one of them wanted to add an additional 356 square feet and there were setback and area variances that were denied. She discussed that in December there was a request for 308 square feet that was denied and then in February 284 square feet. She added that he was down to 44 square feet, and it was significantly different.

Council Liaison Winkle indicated that it was 6 1/2% for a square footage difference.

Chairwoman Masterson asked if there were any other questions or concerns.

None given.

Moved by Masterson and seconded by Toth to approve the first variance with the condition that it only applied to the current structure and when the structure no longer existed, the variances no longer existed.

A roll call vote was taken and the motion carried.

Yes – 4 No – 0

Moved by Masterson and seconded by Toth to approve the second variance with the condition that it only applied to the current structure and when the structure no longer existed, the variances no longer existed.

A roll call vote was taken and the motion carried.

Yes – 4 No – 0

PPZ2025-0358: Richard Paukner, 9095 Nash Ln, PPN: 07-00-036-000-558
Proposal consists of constructing a fence on a corner lot. Property is zoned R-1 Residence District (Chapter 1282). Request:

1. A 2-foot height and 100% opacity variance for a fence in the front yard on a corner lot. Applicant shows a 6-foot-high privacy fence, code allows a fence no greater than 4 feet high and 50% open in the front yard, Section 1294.01(h)(2)(A), see also Chapter 1282. Note: Fence extends approximately 20 feet beyond the front building line.

Application was read.

Chairwoman Masterson asked if there was a representative for the application.

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Richard Paukner, 9095 Nash Lane, North Ridgeville, OH 44039, was sworn in.

Chairwoman Masterson asked Chief Building Official Fursdon to discuss the application.

Chief Building Official Fursdon stated that the applicant was requesting a 6-foot-high fence, and the ordinance required 4 foot in a front yard. He stated that it was a corner lot, which by ordinance had a double front yard. He discussed that it was a privacy fence, so it was 100% closed and the ordinance stated that it was supposed to be 50% open, so they would need a variance for the openness requirement and a 2-foot height variance.

Assistant Law Director Morgan asked to make a notation of part of the Planning Director's notes as she indicated that when the permit for that fence was originally issued, it said in quotes approved as noted, which was meant to indicate that it didn't meet the zoning code, but it was installed as the submittal was submitted. She explained that later on in her notes she stated that there were many corner lots in the city and it was not an unusual configuration and that the method of permit approval, that wording approved as noted on the permit that they received, added some confusion to the situation and that it was a minimal impact on surrounding properties.

Chief Building Official stated that a lot of times when the building inspector reviewed that and issued the approval and the permit, the applicant was made aware that the fence was supposed to be 4 foot high, 50% open or get a variance, but they don't always understand the terminology or requirement for that and he believed that was the case. He stated that once they discovered that the fence was put up at six feet without a variance, they informed the property owner he needed to get a variance for that and as Director Lieber stated, they had seen a lot of these corner lot requests over the years come to the Board to get approval.

Chairwoman Masterson asked if the building department was approving the fence or if the engineering department was doing that currently.

Chief Building Official Fursdon stated that it was the building department.

Chairwoman Masterson asked if that was the reason that the fence was already up.

Mr. Paukner stated that that was correct, due to misunderstanding and confusion during the process. He stated that he tried to do everything according to what the website said and then with the back and forth, it was just a misunderstanding while building it. He explained that he did the paperwork properly, did the holes, had the inspectors come out and had assumed different parts of the fence were what was required for the four foot such as the gates and a few other things. He mentioned that his hardship was that it was just a misunderstanding of that and utilization of his property.

Chairwoman Masterson stated that when she visited the property one thing that they always look at is if there is a visual obstruction, and there wasn’t any. She asked if any of the Board members had any comments, concerns or questions.

Planning Commission Liaison Toth stated that he also took a look at the property, and he hadn’t seen any visual impact, and it didn’t affect any of his neighbors. He commented that he would be inclined to

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approve the variance.

Chairwoman Masterson asked if anyone in the audience had any questions or concerns.

None were given.

Moved by Masterson and seconded by Toth to approve the variance request.

A roll call vote was taken and the motion carried.

Yes – 4 No – 0

PPZ2025-0359: Luis & Rockell Llanos, 36588 Barkhurst Mill Dr, PPN: 07-00-031-000-185
Applicant: Rhys Tassone, Renovations by Rhys, 49812 Greystone Dr, Amherst, OH 44001. Proposal consists of a home addition. Property is zoned R-1 Residence District (Chapter 1282). Request:

1. An 8.35-foot variance for setback of a cluster dwelling unit from common open space. Applicant shows building set back 6.65 feet from property line adjacent to common open space, code requires 15 feet, Section 1282.11(b)(2).

Application was read.

Chairwoman Masterson asked if there was a representative for the application.

Rockell Churby-Llanos, 36588 Barkhurst Mill Dr, North Ridgeville, OH 44039, was sworn in.

Chairwoman Masterson asked Chief Building Official Fursdon to discuss the application.

Chief Building Official Fursdon stated that the applicant was requesting to put an addition on the property for family reasons and the ordinance required that it be 15 foot off the rear property line, which was a common area, and stated that nothing could be built behind them. He stated that they wanted to extend the addition, and they were going to have a setback of 6.65 feet and would need an 8.35-foot variance. He mentioned that it was open space behind them, so nothing could be built behind that house according to the ordinance.

Chairwoman Masterson stated that she had been to the property and there was a very large common area behind her house that went all the way to Mills. She stated that there was nothing that could be built behind her at all.

Ms. Churby-Llanos stated that the common space sat adjacent to all the electric power lines that were owned by the electric company, and it was around 6 acres before it got to Mills Road and was all unbuilt. She stated that everything that was common space, as well as the adjacent part, could never be built on. She stated that her community tried to acquire the electrical area, and they wouldn't let them.

Chairwoman Masterson asked if she was caring for an elderly relative and didn't have any other places to put the elderly relative.

Ms. Churby-Llanos stated that yes, it was her 89-year-old grandmother.

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Chairwoman Masterson discussed that Ms. Churby-Llanos had worked with the building department and Mr. Fursdon, as well as the contractor, and that was the only place to locate the addition.

Ms. Churby-Llanos stated that that was correct. She mentioned that she was born and raised in North Ridgeville on Ridge Plaza and had the pleasure of working with Mr. Fursdon even as a young child when her family had their own building projects that were all within variance. She stated that it had been a pleasure working with them and meeting everyone and working with the City. She stated that everyone had been very understanding as well as flexible with helping them understand options that they may or may not have and how to move forward with those. She said that there was no other place based on several reasons on that property that they could put that structure. She stated that on the back of the house, the northeast corner was where they were requesting to build. She explained that they had an HOA in their development, and it required similar construction and a style that was similar or complementary to the original style of the home. She discussed that constructing the addition on that corner of the lot would allow them to simply extend the existing and original roof height and pitch, so they would not be changing the elevation of the roof height whatsoever and also would not be interfering with their own windows. She stated that there was a note on the application that mentioned that they might be visually impairing their east side neighbor and wanted to note that their east side neighbor had a 3 foot porch in their entire back of their yard, so when they were out in the backyard, they were already 3 feet off the ground. She mentioned that it was the most minimal impact area of the yard and that if they looked on the northwest corner, which would be to the left, there would be no practical roof line tie in at the one story and if they were to put the extension on that end of that side of the property, they would also not be able to match similar construction to the original. She added that it would require the contractors to erect a 1 1/2 to two-story height addition in order to make the tie in of the pitch of the morning room, it would have to exceed that one for drainage and tie in properly. She stated that if they were to do it on the northwest corner, the new roof line would interfere with the second-floor windows, which would also impact the HOA guidelines and rules and regulations of similar construction. She discussed that on the northwest corner they would also be closer to the neighbor to the west and would most likely, high probability of sight line impairments to that neighbor if they were on the northwest corner of our property. She stated that they were requesting the northeast corner and saw no impairment made to any community, neighbor or the environment.

Chairwoman Masterson asked if any of the Board members had any other comments, questions or concerns.

None were given.

Moved by Graupmann and seconded by Masterson to approve the variance request.

A roll call vote was taken and the motion carried.

Yes – 3 No – 1 (Toth)

ADJOURNMENT:

The meeting was adjourned at 7:32 PM.

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Linda Masterson
Chairwoman

Tina Wieber
Recording Secretary/Deputy Clerk of Council

Thursday, July 24, 2025
Date Approved

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Board of Zoning & Building Appeals Application

CITY OF NORTH Ridgeville EST 1810

SUBMITTAL INSTRUCTIONS

Board of Zoning and Building Appeals meetings are held on the fourth Thursday of each month at 7:00 p.m. in Council Chambers at City Hall. Applications must be filed with the Building Division at least 20 days prior to the date of the Board hearing at which the request will be considered. To be processed, applications must include:

1. Completed and signed application with application fee;
2. Ten (10) sets of dimensioned site plans, building details or other drawings and information depicting the request; and
3. Narrative of the request relative to standards of approval for variances or rationale for appeal.

PROJECT INFORMATION

5169 Lear Nagle Rd. North Ridgeville
Location address

07-00-007-108-029
Parcel number

Residential
Current zoning

137 SQ Feet Needed FOR STORAGE
Appeal or variance (attach supporting documentation)

APPLICANT/AGENT INFORMATION

PM Home Remodeling Inc.
Name/Company

1567 Station Rd. Valley City, OH 44280
Applicant address

216-215-6337
Applicant phone

pmsiding@ymail.com
Applicant email

PROPERTY OWNER INFORMATION

Robert & Michelle Howells
Name/Company

5169 Lear Nagle Rd. North Ridgeville
Property owner address

216-276-2440
Property owner phone

allptstrk@windstream.net
Property owner email

AUTHORIZATION AND ACKNOWLEDGEMENT

Applicant signature

Property owner signature

I hereby authorize the City of North Ridgeville, including Board of Zoning and Building Appeals members, to view the premises and consent to their entry onto the property for the purpose of observing site conditions related to review of my application. The materials I have submitted depict the property lines accurately and in accordance with the plat map to the best of my knowledge. I understand that any approval granted is based upon the presumption of accuracy of these plans and that the City has no obligation to independently survey or otherwise determine the accuracy of plans, drawings or other documents. In the event a discrepancy is found to exist, I will take such action as may be needed to provide the correct information. I acknowledge and accept that the representations made in this application and at the public hearing constitute the basis for the decision by the Board. Any misrepresentations, whether knowingly made or not, may result in revocation of the Board's decision. Statements made by an applicant/agent are deemed to be statements of the owner for the purpose of the Board's decision.

OFFICE			ACTION
PPZ No. PPZ 2025-0360	Date Received RECEIVED JUN 27 2025		
Fee Paid $75.00 Cash			

Board of Zoning & Building Appeals Staff Report

Case	PPZ2025-0360
Property Owner	Robert & Michelle Howells
PPN	07-00-007-108-029
Property Address	5169 Lear Nagle Road
Zoning	RS-2 General Residence District
Applicant Name	PM Home Remodeling Inc.
Applicant Address	1567 Station Road, Valley City OH 44280
Project	Addition to detached garage
Meeting Date	July 24, 2025
Report Date	July 7, 2025

REQUESTED VARIANCES	CODIFIED REFERENCES
1. A 37-square foot variance for excessive lot coverage. Applicant shows 2,824 square feet (10.13%), code allows 2,787 square feet (10%), Section 1294.03(d).	1294.03 DETACHED PRIVATE GARAGES (a) As used in this section, "detached private garages" means garages which are not attached to single-family or two-family dwellings and are of frame construction or of construction similar to single-family or two-family dwellings. Detached private garages shall be located not less than five feet from the side and rear yard lot lines and not less than ten feet from other buildings located upon the same lot with a detached private garage. (d)(1) In all residential districts, no detached private garage shall exceed one story or fifteen feet in height for a single-family or two-family residential structure. No detached private garage shall exceed twenty-six feet in length or width or be over 676 square feet in area in any residential district zone with one-half acre or less. (2) Each dwelling may have both private detached garage and an outbuilding. Agriculturally zoned districts or lots greater than one-half acre are not regulated as to the number of outbuildings but cannot exceed lot coverage of ten percent.

Summary of Request:

The applicant is proposing to construct a 726 square foot addition onto the rear of the existing garage and carport which is detached from the dwelling. The lot is 0.6400 acre, which is 27,878 square feet. Allowable lot coverage for lots over one-half acre in size is 10%, which would equal 2,787 square feet.

The original 22 by 22 foot garage was built in 1977. It appears additions have been made over time to the garage and an additional outbuilding added to the lot that do not appear in the city's property or permit history. Note that the second outbuilding appeared on the property about 15 years ago; it was built less than 10 feet from the dwelling and the garage/carport as code requires, creating a nonconforming condition.

Total proposed lot coverage = 1,028 sf (dwelling) + 198 sf (accessory structure) + 1,598 sf (garage)
= 2,824 total sf

The requested variance is 37 square feet, for a total lot coverage of 10.13 percent.

Review of Duncan Factors:

Can the property yield a reasonable return or can there be any beneficial use of the property without the variance?

The property can be used for its intended purpose without the variance.

Is the variance substantial?

No, total lot coverage of 10.13% is not substantially greater than 10%

Will the essential character of the neighborhood be substantially altered or will adjoining properties suffer a substantial detriment as a result of the variance?

No, the garage addition will not alter the character of the neighborhood.

Will the variance adversely affect the delivery of governmental services (e.g. water, sewer, garbage)?

No.

Did the property owner purchase the property with knowledge of the zoning restriction?

Yes, these restrictions have been in place for decades.

Can the property owner's predicament be precluded through some method other than a variance?

The addition could be made smaller to comply with code.

Would the spirit and intent behind the zoning requirement be observed and substantial justice done by granting the variance?

The applicant has not provided information in their submittal to address the practical difficulty of complying with code or Duncan factors.

PROJECT INFORMATION

Addition to existing garage
Proposed project

5169 Lear Nagle Rd
Location

07-00-007-108-029
Parcel number

July 24, 2025
Meeting date

July 14, 2025
Comments due

RECOMMENDATIONS

Type comments here. Attach additional sheets as necessary.

1294.03 (d)(2) Detached Garages on residential lots greater than ½ acre allowed 10% lot coverage. Applicant has 27,878.4 square feet of lot, 10% of that is 2,787 square feet of allowable lot coverage. Applicant requesting 2824 square feet of lot coverage requiring a 37 square feet variance (2824 – 2787 = 37). The request is 10.13% lot coverage (2824 divided by 27,878.4 = 10.13%).

SUBMITTED BY

Guy M. Fursdon
Administrative officer signature

Chief Building Official
Title

RECEIVED
JUN 2 7 2025



RECEIVED
JUN 27 2025

LEAR NAGLE RD.

5169 LEAR NAGLE RD

EXIST. 22'-0" GARAGE | EXIST. 12'-0" CARPORT

EXIST.

ADD 27'-0"

5'-0"

EXIST 36'-0" CARPORT

ADD 11'-0" CARPORT

ADD 22'-0" GARAGE | ADD 12'-0" CARPORT

ADD 11x12 = 132 S.F. CARPORT

ADD 27x22 = 594 S.F. GARAGE

SITE PLAN
1" = 20'-0"

EXIST.

EXIST. 2-CAR GARAGE

REMOVE WALL

3'x6'8" EXT. DR.

2-2"x6" HEADER

NEW GARAGE

KNEE WALL ABOVE TO SUPPORT RAFTERS

EXIST. CARPORT

EXIST.

REMOVE WALL

NEW EXTENSION OF CARPORT

ADD 27'-0"

SLOPE FLOOR

ADD 11'-0"

(2) 2x12 W/GLUED PLWD. FLITCH PLATE

3'x6'8" EXT. DR. 2-2"x6" HEADER

16x7 O.H DOOR

8x7 O.H.DR

1'-0" | 5'-0" | 2'-0" | 2'-0"

22'-0" GARAGE

12'-0" CARPORT

FLOOR PLAN
1/4 = 1'-0"

1 / 2 of

SPRING 2025

27x22 GARAGE ADDITION
11x12 CARPORT ADDITION

HOWELLS RESIDENCE

5169 LEAR NAGLE RD.
NORTH RIDGEVILLE, OHIO 44039

Board of Zoning & Building Appeals Application

CITY OF NORTH Ridgeville EST 1810

SUBMITTAL INSTRUCTIONS

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1. Completed and signed application with application fee;
2. Ten (10) sets of dimensioned site plans, building details or other drawings and information depicting the request; and
3. Narrative of the request relative to standards of approval for variances or rationale for appeal.

PROJECT INFORMATION

6651 Nicoll Drive, North Ridgeville, Ohio, 44039
Location address

07000091200080
Parcel number

Residential
Current zoning

Corner lot house wanting 6' high fence all around
Appeal or variance (attach supporting documentation)

APPLICANT/AGENT INFORMATION

Aaron Hartke
Name/Company

6651 Nicoll Drive, North Ridgeville, Ohio, 44039
Applicant address

440-537-3172
Applicant phone

Aaronha01@gmail.com
Applicant email

PROPERTY OWNER INFORMATION

Aaron Hartke / Morgan Sarver
Name/Company

6651 Nicoll Drive, North Ridgeville, Ohio, 44039
Property owner address

440-537-3172 + 614-886-5801
Property owner phone

Aaronha01@gmail.com + MorganSarver1620@gmail.c
Property owner email

AUTHORIZATION AND ACKNOWLEDGEMENT

Aaron Hartke
Applicant signature

Aaron Hartke
Property owner signature

I hereby authorize the City of North Ridgeville, including Board of Zoning and Building Appeals members, to view the premises and consent to their entry onto the property for the purpose of observing site conditions related to review of my application. The materials I have submitted depict the property lines accurately and in accordance with the plat map to the best of my knowledge. I understand that any approval granted is based upon the presumption of accuracy of these plans and that the City has no obligation to independently survey or otherwise determine the accuracy of plans, drawings or other documents. In the event a discrepancy is found to exist, I will take such action as may be needed to provide the correct information. I acknowledge and accept that the representations made in this application and at the public hearing constitute the basis for the decision by the Board. Any misrepresentations, whether knowingly made or not, may result in revocation of the Board's decision. Statements made by an applicant/agent are deemed to be statements of the owner for the purpose of the Board's decision.

OFFICE	PPZ No.	Date Received	ACTION
	PPZ2025-0361	RECEIVED	
	Fee Paid	JUN 30 2025	
	$75.00 cash		

Board of Zoning & Building Appeals Staff Report

Case	PPZ2025-0361
Property Owner	Aaron Hartke & Morgan Sarver
PPN	07-00-009-120-080
Property Address	6651 Nicoll Drive
Zoning	R-1 Residence District
Applicant Name	Same
Applicant Address	Same
Project	Fence on corner lot
Meeting Date	July 24, 2025
Report Date	July 2, 2025

REQUESTED VARIANCES	CODIFIED REFERENCES
1. A 2-foot height and 100% opacity variance for a fence in the front yard on a corner lot. Applicant shows a 6-foot-high privacy fence, code allows a fence no greater than 4 feet high and 50% open in the front yard, Section 1294.01(h)(2)(A).	1294.01 - Interpretations and exceptions in general (h) Fences. (2) Fences in Residential Districts. A. A fence not exceeding six feet in height may be placed along any side or rear property line, subject to the requirements in subsection B. below, providing it does not extend closer to the street than the front building line. From the building line to the street line, a fence may be installed so long as it has a maximum height of four feet and at least fifty percent of the face is open.

Summary of Request:

The applicant submitted a permit application for a fence on their residential lot. The new 6-foot high solid white vinyl fence would replace an existing 6-foot high wood fence in the same general location. The lot is a corner lot, such that both Nicoll Drive and Browning Drive are front yards per the Zoning Code. The fence is solid, 6-foot-high and extends out from the building line toward the ROW. Dimensions shown by the applicant are not consistent with actual lot width, so it cannot be determined precisely how far the fence will encroach into the front yard. However, any portion of fence between the ROW and front building line must be no greater than 4 feet high and no less than 50% open.

A fence permit was issued by the city for a wood fence in the same location in August 1983. On the permit application, Board of Appeals Approval was circled – the assumption being that the applicant understood a variance would be required. No evidence of BZBA approval has been found in city records. The property history file also contains a letter from the 1997 resident of the property indicating she was intending to replace the existing rotting wood fence with a new wood fence in the same location. The city has twice issued approvals for fences to be installed in noncompliance with the zoning code.

Review of Duncan Factors:

Can the property yield a reasonable return or can there be any beneficial use of the property without the variance?

The property can continue to be used for its intended purpose under the current zoning regulations.

Is the variance substantial?

The 6-foot, privacy fence is located just a few feet off the sidewalk, however does not impede visibility of the next closest neighbor's driveway to the east.

Will the essential character of the neighborhood be substantially altered or will adjoining properties suffer a substantial detriment as a result of the variance?

A fence has been in this location since 1983, twice approved by the city. A new fence will not alter the character of the neighborhood.

Will the variance adversely affect the delivery of governmental services (e.g. water, sewer, garbage)?

No.

Did the property owner purchase the property with knowledge of the zoning restriction?

These zoning requirements have been in place prior to the owner's purchase of the house. However, the owner would not have known that appropriate approvals were not in place at the time the fence was first constructed and later replaced.

Can the property owner's predicament be precluded through some method other than a variance?

No.

Would the spirit and intent behind the zoning requirement be observed and substantial justice done by granting the variance?

Yes, given the information contained in the property history for this address, granting a variance for the continuation of a fence that has existed in this location since 1983 is appropriate.

PROJECT INFORMATION

Fence
Proposed project

6651 Nicoll Drive
Location

07-00-009-120-080
Parcel number

July 24, 2025
Meeting date

July 14, 2025
Comments due

RECOMMENDATIONS

Type comments here. Attach additional sheets as necessary.

1294.01 (h)(2)A. In residential districts fences in front yards shall be maximum 4 foot high and 50% open (corner lots have two front yards). Applicant requesting 6 foot high fence 100% closed, requiring a 2 foot height variance and a 100% closed variance. BZA approval required.

SUBMITTED BY

Guy M. Fursdon
Administrative officer signature

Chief Building Official
Title

CITY OF NORTH Ridgeville EST 1810

FENCE PLOT PLAN

Draw proposed fence layout here, outlining the general shape of your home and property.

We are requesting permission to replace an existing 6' wooden fence that has been on the property for decades with a 6' tall white vinyl fence.

The rules (highlighted) state the fence can only be a max of 4' tall on the sides facing Nicoll Dr and Browning Dr due to the house being a corner lot. We would like to appeal this and place a 6' tall fence all around the property.

We do value our privacy and do not believe it would infringe on any lines of sight for drivers. (It is pretty far back) It would also fit in well with the neighborhood due to their being other corner lots + houses with 6' tall fences.

Thank you! -Aaron

Please provide dimensions in feet.

Fence total length: _____

Instructions for drawing plot plans:

- Give a rough outline of your property.
- Sketch in fence, including gate locations.
- Show any easements on your property.
- Shade-in, highlight or otherwise indicate new work.

Fences
PROJECT GUIDE

CITY OF NORTH Ridgeville EST 1810

SUBMITTAL REQUIREMENTS

Building Permit. A building permit is required to install a new fence or replace an existing fence. Include with your permit application the following additional information:

- A plot plan showing the location of the fence on the property, including lot lines, setbacks and drainage.
- Type and style of proposed fence (ex: privacy, chain link, vinyl, etc.)
- Estimated cost of construction
- Name of contractor, if applicable. Note: All contractors must be registered with the city.

REVIEW PROCESS

Allow at least three weeks for processing of your application. The Building and Engineering Divisions will review for any easements or impediments to drainage. The applicant will be notified when plan review is complete and the permit is ready for pick up.

SPECIFICATIONS

- All fences must adhere to applicable Ohio building codes and local zoning ordinances (NRCO 1294).
- Any fence is subject to the provisions of Section 1468.03(a) regarding lot line verification. The property owner is the responsible party for any legal verification of fence placement.
- Fence height requirements are as follows:
    - Fences in residential districts may be a maximum of 6 feet in height when placed along any side or rear property line.
    - Fences in residential districts may be a maximum of 4 feet in height and must be at least 50% open when placed in the front yard (between the right-of-way and front line of the building).
    - On corner lots, both street frontages are treated as front yards. Please indicate if corner lot and show street names.
    - Fences in non-residential districts may be a maximum of 8 feet in height.
- Except for a fence that is the same on both sides, fences shall be installed so that no exposed posts or supporting cross-elements face the right-of-way or any lot other than the lot on which the fence is to be constructed.
- All fences must have at least one (1) 4-foot-wide gate within 10 feet of dwelling for emergency service access.
- Any fence proposed in a drainage easement requires approval of the City Engineer.
- If underground utilities are present, call 1-800-362-2764 before you dig.

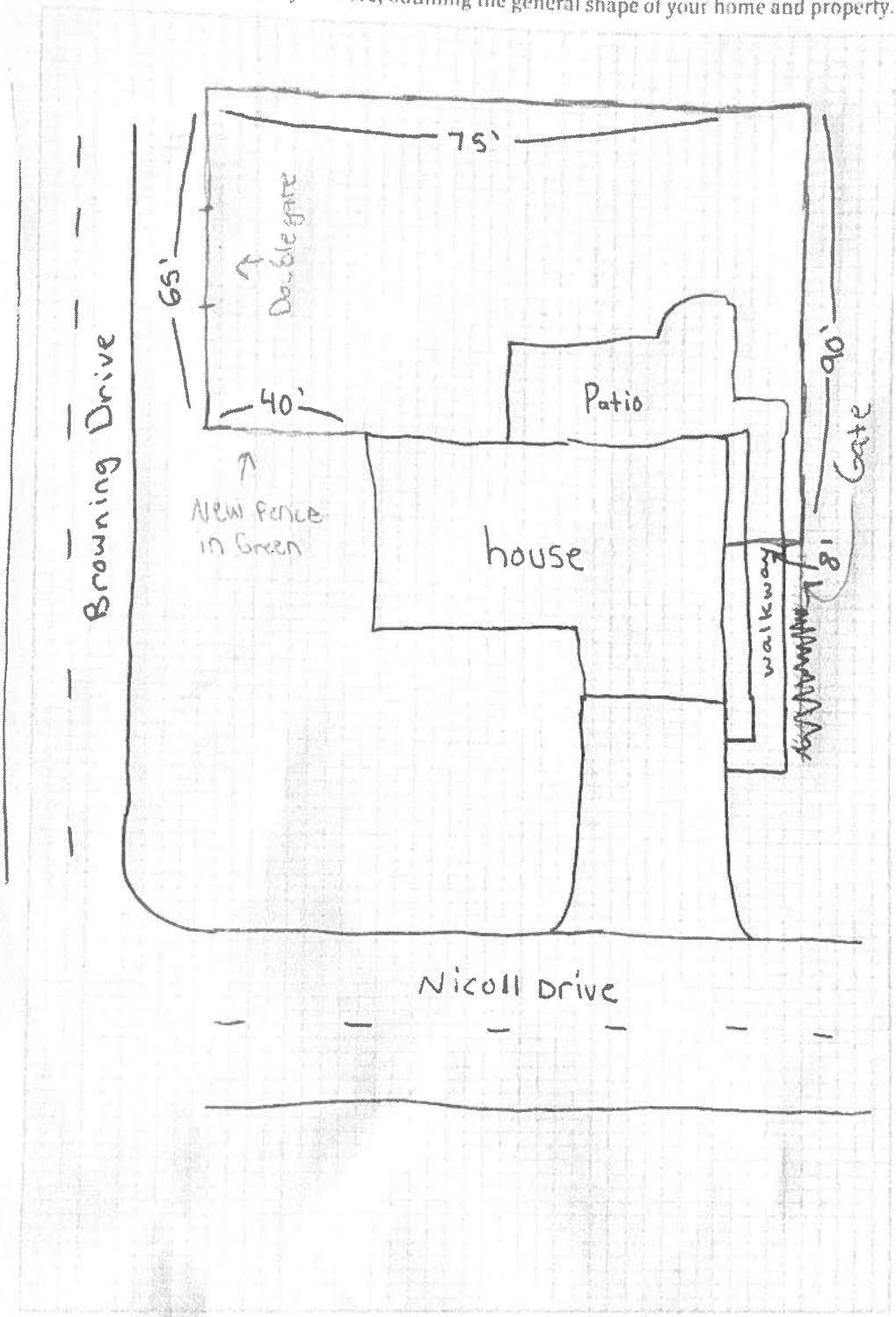
FEES AND INSPECTIONS

- See fees listed on Permit Fee Schedule.
- A minimum 24-hour notice is required to schedule inspections.
- Inspections are required for:
    - Post holes (depth of holes a minimum of 36")
    - Final inspection when project is completed

CITY OF NORTH Ridgeville EST 1810

FENCE PLOT PLAN

Draw proposed fence layout here, outlining the general shape of your home and property.



Please provide dimensions in feet.

Fence total length:
~275-300'

Instructions for drawing plot plans:

- Give a rough outline of your property.
- Sketch in fence, including gate locations.
- Show any easements on your property.
- Shade-in, highlight or otherwise indicate new work.

Board of Zoning & Building Appeals Application

CITY OF NORTH Ridgeville EST 1810

SUBMITTAL INSTRUCTIONS

Board of Zoning and Building Appeals meetings are held on the fourth Thursday of each month at 7:00 p.m. in Council Chambers at City Hall. Applications must be filed with the Building Division at least 20 days prior to the date of the Board hearing at which the request will be considered. To be processed, applications must include:

1. Completed and signed application with application fee;
2. Ten (10) sets of dimensioned site plans, building details or other drawings and information depicting the request; and
3. Narrative of the request relative to standards of approval for variances or rationale for appeal.

PROJECT INFORMATION

34610 Bainbridge Rd., North Ridgeville, OH 44039
Location address

07-00-016-104-233
Parcel number

R-1
Current zoning

The project is seeking a variance for the parking lot lighting, which matches the existing fixtures on site.
Appeal or variance (attach supporting documentation)

APPLICANT/AGENT INFORMATION

Claire Bank / ThenDesign Architecture
Name/Company

4230 River Street, Willoughby, OH 44094
Applicant address

(440)269-2266
Applicant phone

cbank@thendesign.com
Applicant email

PROPERTY OWNER INFORMATION

North Ridgeville Board of Education
Name/Company

34620 Bainbridge Road, North Ridgeville, OH 44039
Property owner address

(440)327-4444
Property owner phone

karlischroeder@nrcs.net; davidpritt@nrcs.net; roxa
Property owner email

AUTHORIZATION AND ACKNOWLEDGEMENT

Claire M Bank
Applicant signature

Property owner signature

I hereby authorize the City of North Ridgeville, including Board of Zoning and Building Appeals members, to view the premises and consent to their entry onto the property for the purpose of observing site conditions related to review of my application. The materials I have submitted depict the property lines accurately and in accordance with the plat map to the best of my knowledge. I understand that any approval granted is based upon the presumption of accuracy of these plans and that the City has no obligation to independently survey or otherwise determine the accuracy of plans, drawings or other documents. In the event a discrepancy is found to exist, I will take such action as may be needed to provide the correct information. I acknowledge and accept that the representations made in this application and at the public hearing constitute the basis for the decision by the Board. Any misrepresentations, whether knowingly made or not, may result in revocation of the Board's decision. Statements made by an applicant/agent are deemed to be statements of the owner for the purpose of the Board's decision.

OFFICE			ACTION
PPZ No. PPZ2025-0363	Date Received JUL 07 2025		
Fee Paid 80.00 N/C			

Board of Zoning & Building Appeals Staff Report

Case	PPZ2025-0363
Property Owner	North Ridgeville City Schools Board of Education
PPN	07-00-016-104-233
Property Address	34610 Bainbridge Road
Zoning	R-1 Residence District
Applicant Name	Claire Bank, ThenDesign Architecture
Applicant Address	4230 River Street, Willoughby OH 44094
Project	Site Lighting for High School
Meeting Date	July 24, 2025
Report Date	July 10, 2025

REQUESTED VARIANCES	CODIFIED REFERENCES
1. A 16.5-foot variance for luminaire height. Applicant shows fixture heights of 32.5 feet for numerous luminaires*, code allows 16 feet in residential districts, Section 1285(d). *Luminaires: S2A3, S1B1, S2A1, EX3, EX5, S1, S2, S3, S3A, S3B, S5A, S5B	(d) Luminaire Height. The height of any parking lot light fixture shall not exceed 30 feet above grade in industrial districts and 25 feet above grade in all other non-residential districts. When located within 50 feet of a residential zoning district, the height of a parking lot light fixture shall not exceed 16 feet above grade.
2. A variance for excessive illumination levels in an open parking lot. Applicant shows: -Parking Area A: 2.94 fc -Parking Area B: 2.26 fc -Parking Area E: 2.53 fc -Parking Area F: 2.58 fc -Parking Area G: 2.89 fc Code allows 2.0 fc average, Table 1285.08-1. 3. A variance for excessive illumination levels at building entrances. Applicant shows: -Entrance A: 7.09 fc Code allows 5.0 fc average, Table 1285.08-1.	(e) Illumination Levels. The average and maximum illumination levels shall not exceed that permitted for each lighting calculation area type. A lighting calculation area shall be defined as any area where the illumination level equals or exceeds 0.2 footcandle. (1) Light Trespass. Lighting intensity shall not exceed zero (0) foot candles at the property line when abutting residential zoning districts. All on-site lighting of buildings, lawns and parking areas shall be designed so that no light source will be visible at the ground level of any adjacent residential property or building. No on-site lighting may cause glare onto any public street or vehicle thereon. (2) Required Illumination Levels. Lighting shall be designed to provide even distribution of illumination and to avoid creating hot spots. Maximum average illumination levels are provided in Table 1285.08-1: • Open parking lots - 2.0 fc max avg • Sidewalks, entrances, pedestrian areas - 5.0 fc max avg

Summary of Request:

The North Ridgeville City School District is seeking variances for their lighting plan for the new High School. The lighting plan deviates from Zoning Code requirements in two ways. First, 73 of the proposed pole lights will be mounted at 32.5 feet, where code allows 16 feet in residential districts. Second, lighting levels exceed code requirements for open parking areas and building entrances.

Review of Duncan Factors:

Can the property yield a reasonable return or can there be any beneficial use of the property without the variance?

The property can be used for its intended purpose without the lighting variances.

Is the variance substantial?

The variances for excessive average illumination are minor and not substantial. The height variance is substantial, inasmuch as the proposed mounting height is more than twice the permitted height. However, the use is non-residential in nature and the photometric plan shows that there will be no light trespass across residential property lines.

Will the essential character of the neighborhood be substantially altered or will adjoining properties suffer a substantial detriment as a result of the variance?

This project does not establish a new use but is the continuation of a use which has been in existence at this site for a very long time. Neighboring residents have long experienced the extra activity that comes with proximity to a school campus. While most of the new light poles are located at a fair distance from residential property lines, several poles are within 100 feet from properties along Pitts Blvd. The schools may wish to consider adding shields to the side of the light fixtures closest to residential properties to reduce the likelihood that light sources will be visible from ground level.

Will the variance adversely affect the delivery of governmental services (e.g. water, sewer, garbage)?

No.

Did the property owner purchase the property with knowledge of the zoning restriction?

These zoning requirements were in place prior to the application for the project.

Can the property owner's predicament be precluded through some method other than a variance?

Zoning compliance would require a substantial change to the lighting plan and the addition of many additional light fixtures.

Would the spirit and intent behind the zoning requirement be observed and substantial justice done by granting the variance?

In reviewing any variance request, the Board considers whether unique features of property exist which support a deviation from strict code compliance. This permitted use has needs that are not typical of residential neighborhoods. As such, some relief may be warranted.

Board of Zoning & Building Appeals
APPLICANT GUIDE

BOARD AUTHORITY
The Board of Zoning and Building Appeals is a five member board with the authority to make decisions associated with variance requests and appeals from the Zoning Code and Building Code. The BZBA is an administrative board that is quasi-judicial in nature. It operates more like a court than a legislative body and uses many standards and procedures similar to those associated with the courts. The Board administers oaths and hears testimony associated with cases. The Board hears both applications for variances from local ordinances and appeals from decisions of administrative officers.

APPLICATIONS, NOTICE AND APPEARANCE
Board meetings are held in Council Chambers at City Hall on the fourth Thursday of each month starting at 7:00 p.m. Complete applications must be received at least 20 days prior to a regular meeting to appear on the agenda. All materials submitted become the property of the Board. The Board is required to give public notice ten days in advance of a meeting, as well as notice to all parties in interest, including owners of adjoining properties. Applicants and owners are required to attend the hearing where their application is considered.

FEES
See the Planning and Zoning Fee Schedule for a complete list of applicable fees.

APPLICANT PRESENTATION
Applicants are expected to submit any documents or information relevant to their request with their application. Board members conduct site visits prior to the meeting. At the meeting, the applicant, owner or authorized agent (design professional, contractor, attorney, etc.) should be prepared to present the rationale for the appeal or variance and answer questions of the Board. Adjoining property owners may also give testimony. All parties presenting evidence are sworn in by the Board chair at the start of the case.

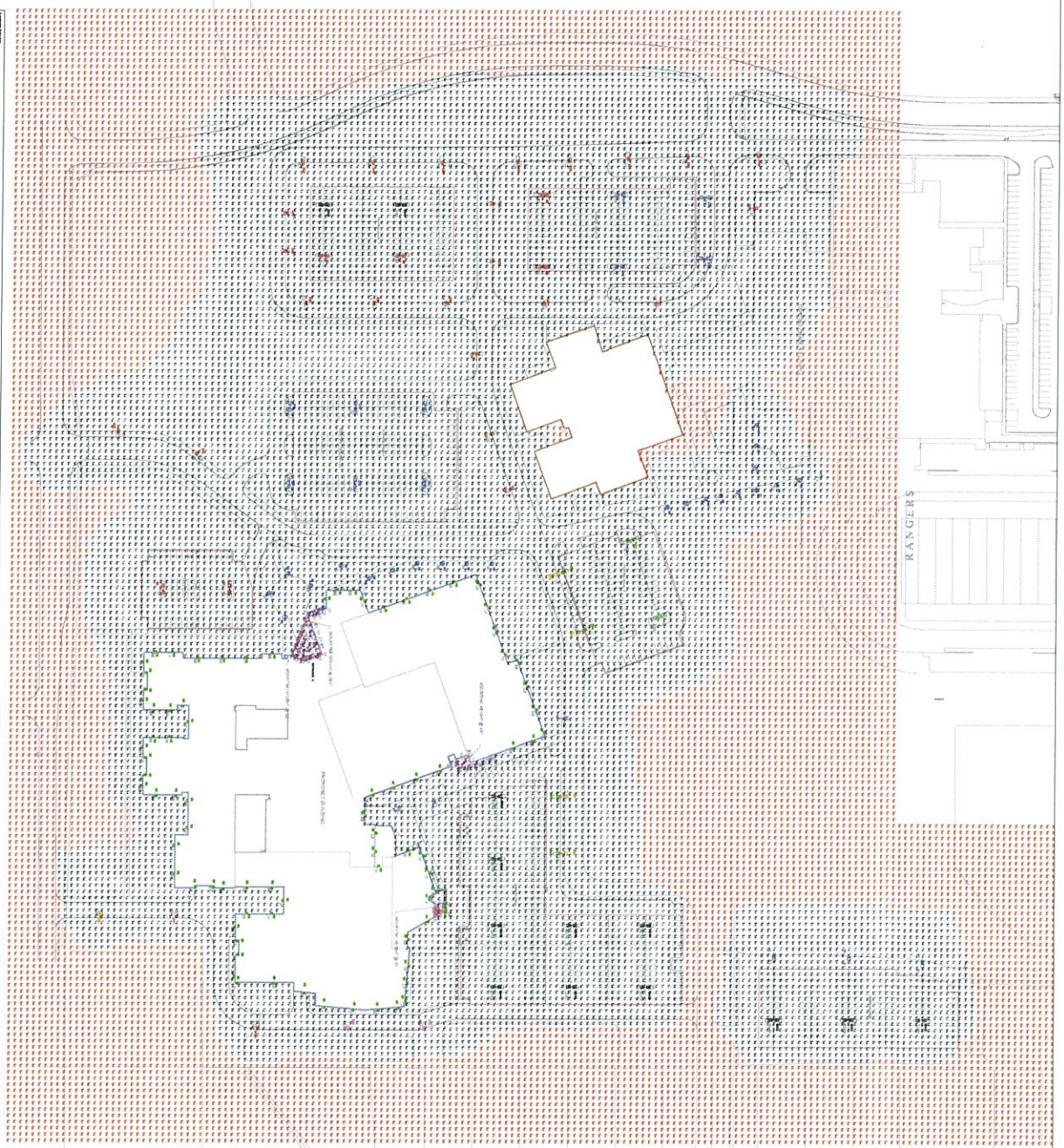
VARIANCE STANDARDS OF APPROVAL
In assembling an application and preparing for a presentation, it is helpful to know what standards the Board members apply in making their determinations. The factors below are considered by the BZBA in determining whether the applicant has met their burden to be granted a variance. It is strongly recommended applicants submit supporting documentation with their application that addresses these standards.

Standards for Area Variances
Granting of an area variance (area, size, setback, etc.) requires the existence of a *practical difficulty*. The factors (*Duncan v. Middlefield* (1986), 23 Ohio St.3d 83) to be considered and weighed include:

- Can the property yield a reasonable return or can there be any beneficial use of the property without the variance?
- Is the variance is substantial?
- Will the essential character of the neighborhood be substantially altered or will adjoining properties suffer a substantial detriment as a result of the variance?
- Will the variance adversely affect the delivery of governmental services (e.g. water, sewer, garbage)?
- Did the property owner purchase the property with knowledge of the zoning restriction?
- Can the property owner's predicament be precluded through some method other than a variance?
- Would the spirit and intent behind the zoning requirement be observed and substantial justice done by granting the variance?

Not every factor will apply to each application and no one factor is determinative of whether or not a variance will be granted.

Standards for Use Variances
A use variance allows a use of land that is not permitted in the district in which the property is located. Because this type of relief is so significant, granting of a use variance requires the existence of an *unnecessary hardship*. The applicant must demonstrate that based upon the current zoning, the property owner is deprived of all reasonable uses of the property.

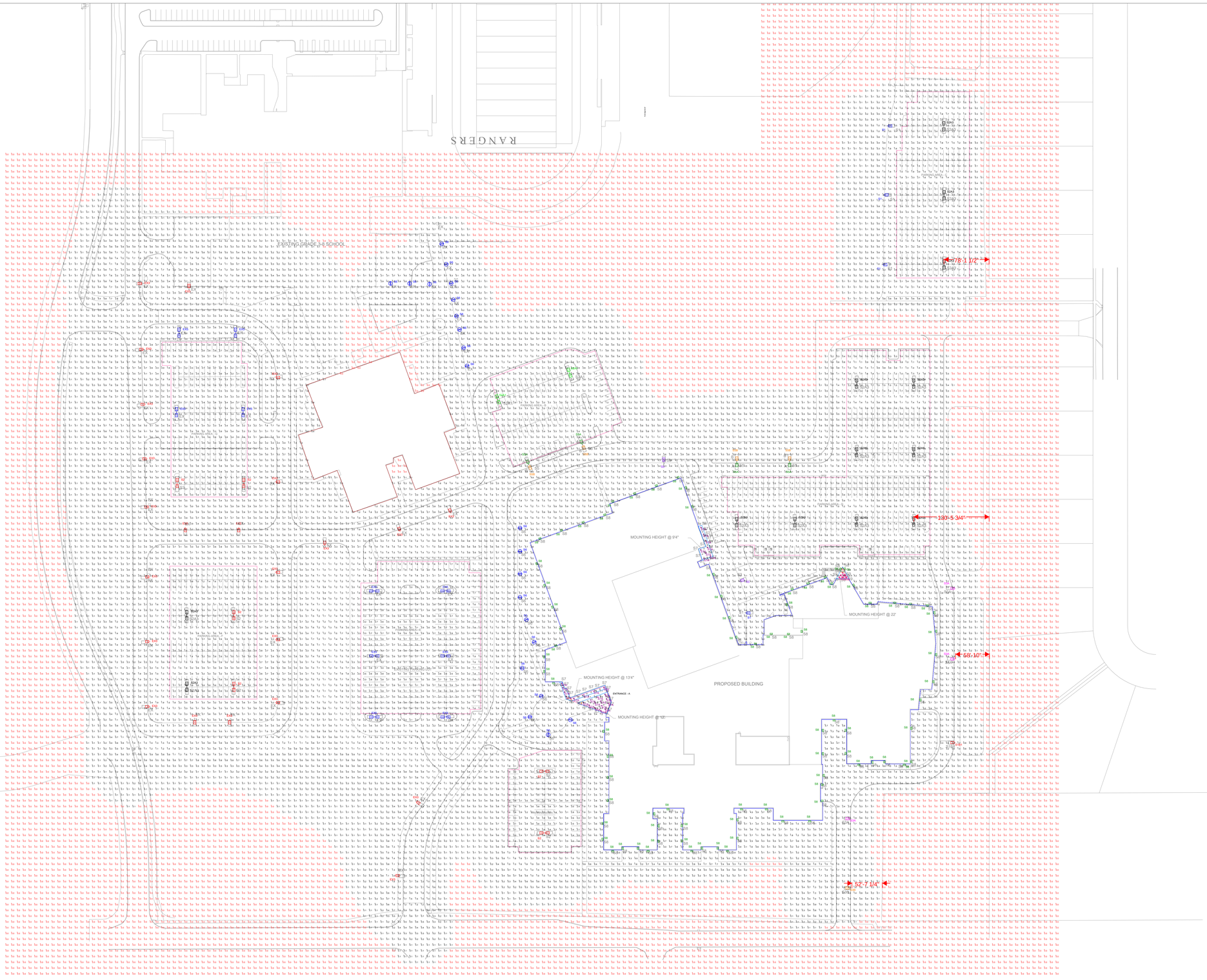


PROGRESS DRAWING
NOT INTENDED FOR CONSTRUCTION

NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34610 BAINBRIDGE RD. NORTH RIDGEVILLE, OH 44039

tda thendesign architecture

design and construction documents as instruments of service are given in confidence and remain the property of thendesign architecture ltd. the use of this design and these construction documents for purposes other than the specific project named herein is strictly prohibited without expressed written consent of thendesign architecture ltd.



Luminaire Schedule

Symbol	Qty	Label	LLF	Luminaire Lumens	[MANUFAC]	Description	Filename	Luminaire Watts	Mounting Height
	29	S7A	0.900	935	PRESCOLITE	LFR-4RD-M-10L35K8WD-DM1_LFR-4RD-T-CL-S	LFR-4RD-M-10L35K8WD-DM1_LFR-4RD-T-CL-S.ies	8	9.4, 12, 13.4
	13	S2A3	0.900	7150	BEACON	2VP-2-320L-185-4K7-SQW-HSS-360	VP-2-320L-185-4K7-SQW-HSS-360.ies	185	32.5
	1	S1B1	0.900	9098	BEACON	VP-2-320L-145-4K7-4F-HSS-360	VP-2-320L-145-4K7-4F-HSS-360.ies	145	32.5
	2	S2A1	0.900	22094	BEACON	2VP-2-320L-145-4K7-SQW	VP-2-320L-145-4K7-SQW.ies	145	32.5
	23	EX3	0.900	24664	BEACON PRODUCTS	VP-L-96NB-280-T3-4K	96NB-280-T3.ies	280	32.5
	10	EX5	0.900	23785	BEACON PRODUCTS	VP-L-96NB-280-TSSW-4K	96NB-280-TSSW.ies	280	32.5
	4	S1	0.900	25206	BEACON	VP-2-320L-185-4K7-4F	VP-2-320L-185-4K7-4F.ies	185	32.5
	6	S2	0.900	26841	BEACON	2VP-2-320L-185-4K7-SQW	VP-2-320L-185-4K7-SQW.ies	185	32.5
	2	S3	0.900	25894	BEACON	VP-2-320L-185-4K7-3	VP-2-320L-185-4K7-3.ies	185	32.5
	3	S3A	0.900	21185	BEACON	VP-2-320L-185-4K7-3-HSS-90-B	VP-2-320L-185-4K7-3-HSS-90-B.ies	185	32.5
	1	S3B	0.900	18298	BEACON	VP-2-320L-185-4K7-4F-HSS-270-BSS	VP-2-320L-185-4K7-4F-HSS-270-BSS.ies	185	32.5
	4	S5A	0.900	26841	BEACON	VP-2-320L-185-4K7-SQW	VP-2-320L-185-4K7-SQW.ies	185	32.5
	4	S5B	0.900	25894	BEACON	VP-2-320L-185-4K7-3	VP-2-320L-185-4K7-3.ies	185	32.5
	22	S6	0.900	9584	Visionaire Lighting LLC	CAL-5-L-T5-48LC-5-4K-UNV-PT-BK	CAL-5-L_T5_48LC_5_4K_PT.ies	78	14
	83	S8	0.900	4296	BEACON	QSP2-36L-25-4K7-4F	QSP2-36L-25-4K7-4F.ies	32	10, 12
	6	S9	0.900	4089	PRESCOLITE	LFR-6RD-M-40L35K8MD-DM1-LFR-6RD-T-CL-S	LFR-6RD-M-40L35K8MD-DM1_LFR-6RD-T-CL-S.ies	32	22

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
entrance - A	Illuminance	Fc	7.09	12.3	1.1	6.45	11.18
parking area - A	Illuminance	Fc	2.94	3.8	1.7	1.73	2.24
parking area - B	Illuminance	Fc	2.26	4.1	0.8	2.83	5.13
parking area - C	Illuminance	Fc	1.61	3.3	0.1	16.10	33.00
parking area - D	Illuminance	Fc	1.32	3.4	0.1	13.20	34.00
parking area - E	Illuminance	Fc	2.53	4.7	1.0	2.53	4.70
parking area - F	Illuminance	Fc	2.58	3.9	0.6	4.30	6.50
parking area - G	Illuminance	Fc	2.89	4.5	1.9	1.52	2.37

NOTES:
1. ILLUMINANCE LEVELS TAKEN ON THE PAVEMENT

PROGRESS DRAWING
NOT INTENDED FOR CONSTRUCTION

tda
thendesign architecture

NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34610 BAINBRIDGE RD. NORTH RIDGEVILLE, OH 44039

no.	description	date

Sheet Revisions

no.	description	date
03	Early Site	01/31/25
02	DD	12/20/24
01	SD	06/28/24

Project Issues

design and construction documents as instruments of service are given in confidence and remain the property of thendesign architecture ltd. whether the project for which they are made is executed or not. the documents are not to be used by the owner or any other person on other projects or for additions to this project without the written consent of thendesign architecture ltd.

sheet name:

drawn by: WAM
checked by: TJC
sheet number:
job number: 23099

COMBINED SET OF CUT SHEETS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

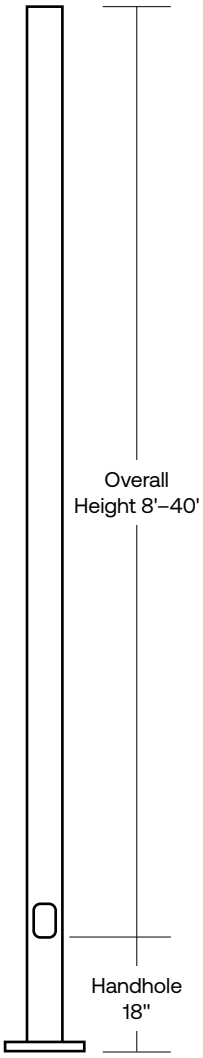
SPECIFICATIONS

CONSTRUCTION

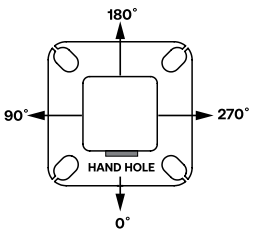
- Shaft: One-piece straight aluminum with square cross section, flat sides and minimum radius on all corners; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum
- Base cover: Four (4) individual bolt covers provided, painted to match pole and base finish
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- Hand hole: Rectangular 3x5 aluminum hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- Anchor bolts: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
  - Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
    1 x 36 x 4 — TAB-36-M38
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in 12 standard colors; Custom colors available; RAL number preferable

INSTALLATION

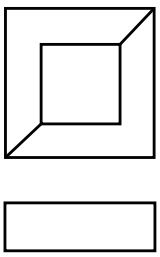
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



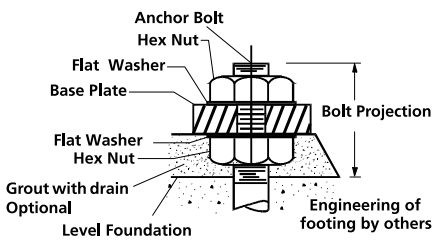
BASE



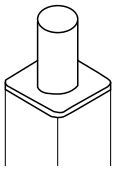
BASE COVER



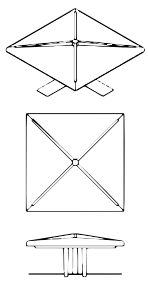
BASE DETAIL



TENON



POLE CAP



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All values are design or typical values when measured under laboratory conditions.

BEACON
design . performance . technology

SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING INFORMATION

Example: SSA-B–25–50–B–2L–S2–DBT–UL

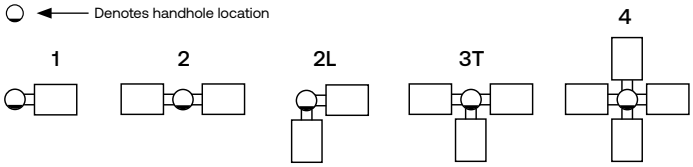
SSA-B	–	30	–	60	–	C	–	1	–	B3	–	BLT	–	VM1
Series		**Height**		**Shaft**		**Thickness**		**Mounting**		**Drill Pattern**		**Finish**		**Options**
SSA-B Square Straight Aluminum Pole Beacon		Reference page 3 Ordering matrix		Reference page 3 Ordering matrix		Reference page 3 Ordering matrix A - .125" Wall B - .188" Wall C - .250" Wall		**1** Single arm mount **2** Two fixtures at 180˚ **2L** Two fixtures at 90˚ **3T** Three fixtures at 90˚ **4** Four fixtures at 90˚ **TA** Tenon (2.38" OD x 4" Tall) **OT** Open Top (includes pole cap)		**B1** Cruzer, "AM" arm **B3** 2 bolt (2-1/2" spacing), Viper "A" arm **S2** 2 bolt (3-1/2" spacing), Viper "AD" arm **UDP** Universal Drill Pattern		**BLT** Black Matte Textured **BLS** Black Gloss Smooth **DBT** Dark Bronze Matte Textured **DBS** Dark Bronze Gloss Smooth **GTT** Graphite Matte Textured **LGT** Light Grey Matte Textured **LGS** Light Grey Gloss Smooth **PSS** Platinum Silver Smooth **WHT** White Matte Textured **WHS** White Gloss Smooth **VGT** Verde Green Textured **Color Option** **CC** Custom Color[2]		**GFI**[3] 20 Amp GFCI Receptacle and Cover **EHH**[3] Extra Handhole **C05**[3] .5" Coupling **C07**[3] .75" Coupling **C20**[3] 2" Coupling **MPB**[3] Mid-pole Luminaire Bracket **VM1**[4] Mode vibration dampener **VM2**[5] 2nd mode vibration dampener **LAB** Less Anchor Bolts **UL** UL Certified

Accessories (Order Separately)

- ☐ **VM2S08** Field-installed 2nd mode vibration dampener - 8 ft
- ☐ **VM2S12** Field-installed 2nd mode vibration dampener - 12 ft
- ☐ **VM2S16** Field-installed 2nd mode vibration dampener - 16 ft
- ☐ **VM2S20** Field-installed 2nd mode vibration dampener - 20 ft
- ☐ **VM2S25** Field-installed 2nd mode vibration dampener - 25 ft

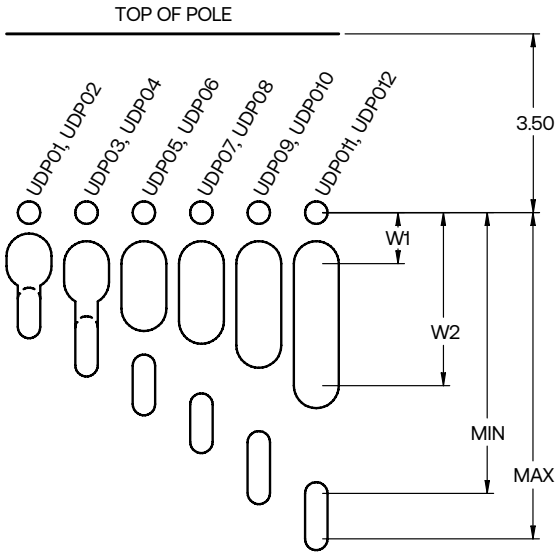
1 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation. Example: SSA-B-25-40-A-1-B1-TR-BBTT.
2 Custom colors available; RAL number preferable
3 Specify option location using logic found on page 3 (Option Orientation).
4 VM1 recommended on poles 20' and taller with EPA of less than 1.
5 There will be a weld witness mark on the side of the pole with the Factory installed VM2

MOUNTING ORIENTATION



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



Two Bolt Mounting with Center Wireway						
Mounting Hardware	Universal Mounting Patterns					
⅜" or less	UDP01	UDP03	UDP05	UDP07	UDP09	UDP011
7/16" to ½"	UDP02	UDP04	UDP06	UDP08	UDP010	UDP012
"Min" Attachment Dimension	1.69	2.25	3.00	3.76	4.50	5.50
"Max" Attachment Dimension	2.24	2.99	3.75	4.49	5.49	6.00
W1 (Wireway min)	0.85	1.00	1.00	1.00	1.00	1.00
W2 (Wireway max)	1.05	1.36	1.88	2.13	2.60	3.00

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All values are design or typical values when measured under laboratory conditions.

BEACON
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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-4F

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S1"

MICRO STRIKE | OPTICS STRIKE

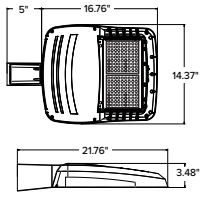


FEATURES

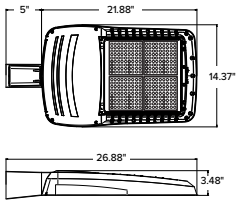
- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA

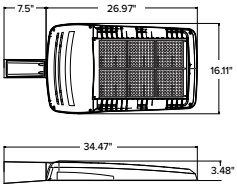
SIZE 1



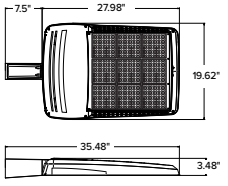
SIZE 2



SIZE 3



SIZE 4



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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BEACON
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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-4F

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-185-4K7-4F

VP	–		–	2	–	320L-185	–	4K7	–	4F	–		–		–
Series		**Optic Platform**		**Size**		**Light Engine**		**CCT/CRI**		**Distribution**		**Optic Rotation**		**Voltage**	

Series

VP	Viper Area

Optic Platform

BLANK	Micro Strike

Size

1	Size 1
2	Size 2
3	Size 3
4	Size 4

Light Engine

160L-35 [6]	35W - 5,500 Lumens
160L-50 [6]	50W - 7,500 Lumens
160L-75	75W - 10,000 Lumens
160L-100	100W - 12,500 Lumens
160L-115	115W - 15,000 Lumens
160L-135	135W - 18,000 Lumens
160L-160	160W - 21,000 Lumens
320L-145	145W - 21,000 Lumens
320L-170	170W - 24,000 Lumens
320L-185	185W - 27,000 Lumens
320L-210	210W - 30,000 Lumens
320L-235	235W - 33,000 Lumens
320L-255	255W - 36,000 Lumens
320L-315 [6]	315W - 40,000 Lumens
480L-285	285W - 40,000 Lumens
480L-320	320W - 44,000 Lumens
480L-340	340W - 48,000 Lumens
480L-390	390W - 52,000 Lumens
480L-425	425W - 55,000 Lumens
480L-470	470W - 60,000 Lumens
720L-435	435W - 60,000 Lumens
720L-475	475W - 65,000 Lumens
720L-515	515W - 70,000 Lumens
720L-565 [6]	565W - 75,000 Lumens
720L-600 [6]	600W - 80,000 Lumens
CLO	Custom Lumen Output [1]

CCT/CRI

AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI
BLUE	BLUE 450-455 nm

Distribution

2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

Optic Rotation

BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

Voltage

UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

A	–	BLT	–		–
Mounting		**Color**		**Options**	

Mounting

A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color

BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

Options

F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block
LS	Lumen Switch

Network Control Options

NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]

Stand Alone Sensors

BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]

Programmed Controls

SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-145-4K7-4F-HSS-360

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S1B1"

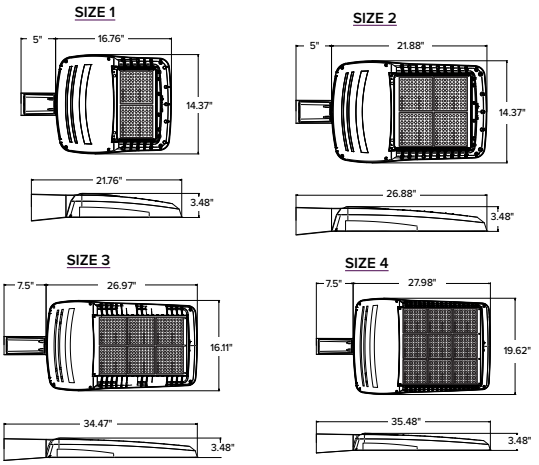
MICRO STRIKE | OPTICS STRIKE



FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
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OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
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- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

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- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-145-4K7-4F-HSS-360

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-145-4K7-4F-HSS-360

VP	–		–	2	–	320L-145	–	4K7	–	4F	–		–		–
Series		**Optic Platform**		**Size**		**Light Engine**		**CCT/CRI**		**Distribution**		**Optic Rotation**		**Voltage**	

Series

VP	Viper Area

Optic Platform

BLANK	Micro Strike

Size

1	Size 1
2	Size 2
3	Size 3
4	Size 4

Light Engine

160L-35 [6]	35W - 5,500 Lumens
160L-50 [6]	50W - 7,500 Lumens
160L-75	75W - 10,000 Lumens
160L-100	100W - 12,500 Lumens
160L-115	115W - 15,000 Lumens
160L-135	135W - 18,000 Lumens
160L-160	160W - 21,000 Lumens
320L-145	145W - 21,000 Lumens
320L-170	170W - 24,000 Lumens
320L-185	185W - 27,000 Lumens
320L-210	210W - 30,000 Lumens
320L-235	235W - 33,000 Lumens
320L-255	255W - 36,000 Lumens
320L-315 [6]	315W - 40,000 Lumens
480L-285	285W - 40,000 Lumens
480L-320	320W - 44,000 Lumens
480L-340	340W - 48,000 Lumens
480L-390	390W - 52,000 Lumens
480L-425	425W - 55,000 Lumens
480L-470	470W - 60,000 Lumens
720L-435	435W - 60,000 Lumens
720L-475	475W - 65,000 Lumens
720L-515	515W - 70,000 Lumens
720L-565 [6]	565W - 75,000 Lumens
720L-600 [6]	600W - 80,000 Lumens
CLO	Custom Lumen Output [1]

CCT/CRI

AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI
BLUE	BLUE 450-455 nm

Distribution

2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

Optic Rotation

BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

Voltage

UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

A	–	BLT	–		–
Mounting		**Color**		**Options**	

Mounting

A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color

BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

Options

F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block
LS	Lumen Switch

Network Control Options

NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]

Stand Alone Sensors

BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]

Programmed Controls

SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-145-4K7-4F-HSS-360

ORDERING GUIDE (CONT'D)

CATALOG # VP-2-320L-145-4K7-4F-HSS-360

HSS-360

Accessory Type		Size		Option		Color	
SHD	Shield	**1**	Size 1	**HSS-90-B**	House Side Shield 90° Back	**BLS**	Black Gloss Smooth
		2	Size 2	**HSS-90-F**	House Side Shield 90° Front	**BLT**	Black Matte Textured
		3	Size 3	**HSS-90-S**	House Side Shield 90° Side	**DBS**	Dark Bronze Gloss Smooth
		4	Size 4	**HSS-270-BSS**	House Side Shield 270° Back/Side/Side	**DBT**	Dark Bronze Matte Textured
				HSS-270-FSS	House Side Shield 270° Front/Side/Side	**GTT**	Graphite Matte Textured
				HSS-270-FSB	House Side Shield 270° Front/Side/Back	**LGS**	Light Gray Gloss Smooth
				HSS-360	House Side Shield 360°	**PSS**	Platinum Silver Smooth
				BC	Back Light Control	**WHS**	White Gloss Smooth
MTG	Mounting			**A**	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**WHT**	White Matte Textured
				ASQU	Universal Arm Mount for square pole	**VGT**	Green Landscape Decorative
				AAU	Adjustable Arm for pole mounting	**LEG**	Legacy Colors
				ADU	Decorative upswept Arm	**Color Option**	
				RPA	Round Pole Adapter	**CC**	Custom Color
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm		
				K	Knuckle		
				T	Trunnion		
				WB	Wall Bracket (compatible with universal arm mounts)		

Accessory Type		Option	
MSC	Miscellaneous	**BIRD SPK**	Bird Spike

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

☐ **NXOFM-1R1D-UNV** On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

LightGRID+ Lighting Control

☐ **WIR-RME-L** On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with LightGRID+ Radio, 110–480VAC

☐ **SCP-REMOTE** Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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BEACON
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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-5QW

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S2"

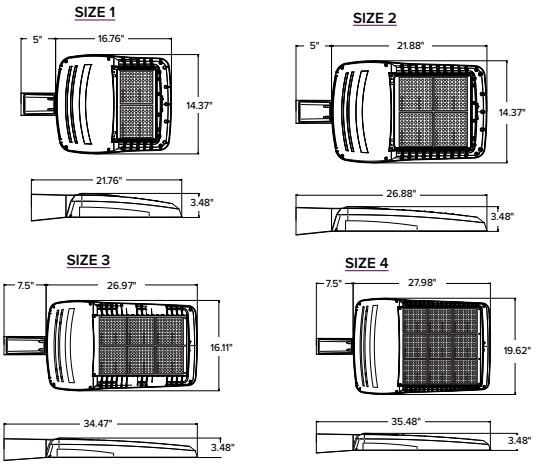
MICRO STRIKE | OPTICS STRIKE



FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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BEACON
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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-5QW

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-185-4K7-5QW

VP –	–	2 –	320L-185 –	4K7 –	5QW –	–	–
Series	**Optic Platform**	**Size**	**Light Engine**	**CCT/CRI**	**Distribution**	**Optic Rotation**	**Voltage**
VP Viper Area	**BLANK** Micro Strike	**1** Size 1	**160L-35** [6] 35W - 5,500 Lumens	**AP** AP-Amber Phosphor Converted	**2** Type 2	**BLANK** No Rotation	**UNV** 120-277V
			160L-50 [6] 50W - 7,500 Lumens	**27K8** 2700K, 80 CRI	**3** Type 3	**L** Optic rotation left	**120** 120V
			160L-75 75W - 10,000 Lumens	**3K7** 3000K, 70 CRI	**4F** Type 4 Forward	**R** Optic rotation right	**208** 208V
			160L-100 100W - 12,500 Lumens	**3K8** 3000K, 80 CRI	**4W** Type 4 Wide		**240** 240V
			160L-115 115W - 15,000 Lumens	**35K8** 3500K, 80 CRI	**5QW** Type 5 Square Wide		**277** 277V
			160L-135 135W - 18,000 Lumens	**3K9** 3000K, 90 CRI			**347** 347V
			160L-160 160W - 21,000 Lumens	**4K7** 4000K, 70 CRI			**480** 480V
		2 Size 2	**320L-145** 145W - 21,000 Lumens	**4K8** 4000K, 80 CRI			
			320L-170 170W - 24,000 Lumens	**4K9** 4000K, 90 CRI			
			320L-185 185W - 27,000 Lumens	**5K7** 5000K, 70 CRI			
			320L-210 210W - 30,000 Lumens	**5K8** 5000K, 80 CRI			
			320L-235 235W - 33,000 Lumens	**BLUE** BLUE 450-455 nm			
			320L-255 255W - 36,000 Lumens				
			320L-315 [6] 315W - 40,000 Lumens				
		3 Size 3	**480L-285** 285W - 40,000 Lumens				
			480L-320 320W - 44,000 Lumens				
			480L-340 340W - 48,000 Lumens				
			480L-390 390W - 52,000 Lumens				
			480L-425 425W - 55,000 Lumens				
			480L-470 470W - 60,000 Lumens				
		4 Size 4	**720L-435** 435W - 60,000 Lumens				
			720L-475 475W - 65,000 Lumens				
			720L-515 515W - 70,000 Lumens				
			720L-565 [6] 565W - 75,000 Lumens				
			720L-600 [6] 600W - 80,000 Lumens				
			CLO Custom Lumen Output [1]				

A –	BLT –	–
Mounting	**Color**	**Options**
A Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**BLT** Black Matte Textured	**F** Fusing
A_ Arm mount for round pole [2]	**BLS** Black Gloss Smooth	**2PF** Dual Power Feed
ASQU Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern	**DBT** Dark Bronze Matte Textured	**2DR** Dual Driver
A_U Universal arm mount for round pole [2]	**DBS** Dark Bronze Gloss Smooth	**TE** Tooless Entry
AAU Adjustable arm for pole mounting (universal drill pattern)	**GTT** Graphite Matte Textured	**BC** Backlight Control [8]
AA_U Adjustable arm mount for round pole [2]	**LGS** Light Grey Gloss Smooth	**TB** Terminal Block
ADU Decorative upswept Arm (universal drill pattern)	**LGT** Light Grey Gloss Textured	**LS** Lumen Switch
AD_U Decorative upswept arm mount for round pole [2]	**PSS** Platinum Silver Smooth	
MAF Mast arm fitter for 2-3/8" OD horizontal arm	**WHT** White Matte Textured	
K Knuckle	**WHS** White Gloss Smooth	
T Trunnion	**VGT** Verde Green Textured	
WB Wall Bracket, horizontal tenon with MAF	**Color Option**	
WM Wall mount bracket with decorative upswept arm	**CC** Custom Color	
WA Wall mount bracket with adjustable arm		

Network Control Options	
NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]
Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]
Programmed Controls	
SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-145-4K7-5QW

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S2A1"

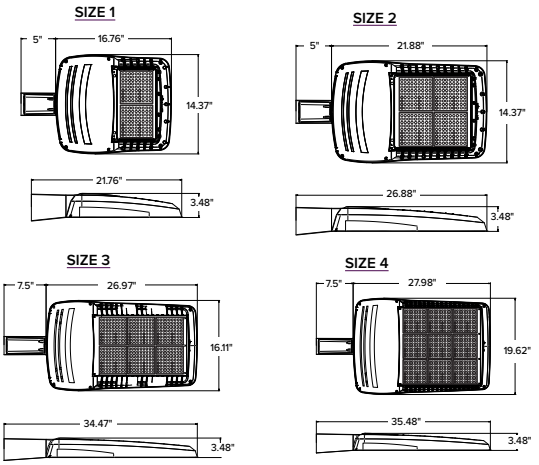
MICRO STRIKE | OPTICS STRIKE



FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-145-4K7-5QW

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-145-4K7-5QW

VP –	–	2 –	320L-145 –	4K7 –	5QW –	–	–
Series	**Optic Platform**	**Size**	**Light Engine**	**CCT/CRI**	**Distribution**	**Optic Rotation**	**Voltage**
VP Viper Area	**BLANK** Micro Strike	**1** Size 1	**160L-35** [6] 35W - 5,500 Lumens	**AP** AP-Amber Phosphor Converted	**2** Type 2	**BLANK** No Rotation	**UNV** 120-277V
			160L-50 [6] 50W - 7,500 Lumens	**27K8** 2700K, 80 CRI	**3** Type 3	**L** Optic rotation left	**120** 120V
			160L-75 75W - 10,000 Lumens	**3K7** 3000K, 70 CRI	**4F** Type 4 Forward	**R** Optic rotation right	**208** 208V
			160L-100 100W - 12,500 Lumens	**3K8** 3000K, 80 CRI	**4W** Type 4 Wide		**240** 240V
			160L-115 115W - 15,000 Lumens	**35K8** 3500K, 80 CRI	**5QW** Type 5 Square Wide		**277** 277V
			160L-135 135W - 18,000 Lumens	**3K9** 3000K, 90 CRI			**347** 347V
			160L-160 160W - 21,000 Lumens	**4K7** 4000K, 70 CRI			**480** 480V
		2 Size 2	**320L-145** 145W - 21,000 Lumens	**4K8** 4000K, 80 CRI			
			320L-170 170W - 24,000 Lumens	**4K9** 4000K, 90 CRI			
			320L-185 185W - 27,000 Lumens	**5K7** 5000K, 70 CRI			
			320L-210 210W - 30,000 Lumens	**5K8** 5000K, 80 CRI			
			320L-235 235W - 33,000 Lumens	**BLUE** BLUE 450-455 nm			
			320L-255 255W - 36,000 Lumens				
			320L-315 [6] 315W - 40,000 Lumens				
		3 Size 3	**480L-285** 285W - 40,000 Lumens				
			480L-320 320W - 44,000 Lumens				
			480L-340 340W - 48,000 Lumens				
			480L-390 390W - 52,000 Lumens				
			480L-425 425W - 55,000 Lumens				
			480L-470 470W - 60,000 Lumens				
		4 Size 4	**720L-435** 435W - 60,000 Lumens				
			720L-475 475W - 65,000 Lumens				
			720L-515 515W - 70,000 Lumens				
			720L-565 [6] 565W - 75,000 Lumens				
			720L-600 [6] 600W - 80,000 Lumens				
			CLO Custom Lumen Output [1]				

A –	BLT –	–
Mounting	**Color**	**Options**
A Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**BLT** Black Matte Textured	**F** Fusing
A_ Arm mount for round pole [2]	**BLS** Black Gloss Smooth	**2PF** Dual Power Feed
ASQU Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern	**DBT** Dark Bronze Matte Textured	**2DR** Dual Driver
A_U Universal arm mount for round pole [2]	**DBS** Dark Bronze Gloss Smooth	**TE** Tooless Entry
AAU Adjustable arm for pole mounting (universal drill pattern)	**GTT** Graphite Matte Textured	**BC** Backlight Control [8]
AA_U Adjustable arm mount for round pole [2]	**LGS** Light Grey Gloss Smooth	**TB** Terminal Block
ADU Decorative upswept Arm (universal drill pattern)	**LGT** Light Grey Gloss Textured	**LS** Lumen Switch
AD_U Decorative upswept arm mount for round pole [2]	**PSS** Platinum Silver Smooth	
MAF Mast arm fitter for 2-3/8" OD horizontal arm	**WHT** White Matte Textured	
K Knuckle	**WHS** White Gloss Smooth	
T Trunnion	**VGT** Verde Green Textured	
WB Wall Bracket, horizontal tenon with MAF	**Color Option**	
WM Wall mount bracket with decorative upswept arm	**CC** Custom Color	
WA Wall mount bracket with adjustable arm		

Network Control Options	
NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]
Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]
Programmed Controls	
SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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BEACON
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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-5QW-HSS-360

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S2A3"

MICRO STRIKE | OPTICS STRIKE

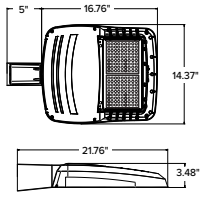


FEATURES

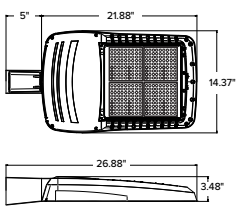
- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA

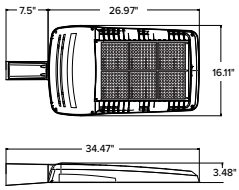
SIZE 1



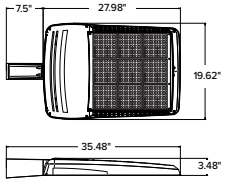
SIZE 2



SIZE 3



SIZE 4



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-5QW-HSS-360

VIPER Area/Site

VIPER LUMINAIRE

Gray Shading = Service Program Limit of 15 luminaires

QS10

MICROSTRIKE OPTICS – ORDERING GUIDE

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-185-4K7-5QW-HSS-360

VP –	–	2 –	320L-185 –	4K7 –	5QW –	–	–
Series	**Optic Platform**	**Size**	**Light Engine**	**CCT/CRI**	**Distribution**	**Optic Rotation**	**Voltage**
VP Viper Area	**BLANK** Micro Strike	**1** Size 1	**160L-35** [6] 35W - 5,500 Lumens	**AP** AP-Amber Phosphor Converted	**2** Type 2	**BLANK** No Rotation	**UNV** 120-277V
			160L-50 [6] 50W - 7,500 Lumens	**27K8** 2700K, 80 CRI	**3** Type 3	**L** Optic rotation left	**120** 120V
			160L-75 75W - 10,000 Lumens	**3K7** 3000K, 70 CRI	**4F** Type 4 Forward	**R** Optic rotation right	**208** 208V
			160L-100 100W - 12,500 Lumens	**3K8** 3000K, 80 CRI	**4W** Type 4 Wide		**240** 240V
			160L-115 115W - 15,000 Lumens	**35K8** 3500K, 80 CRI	**5QW** Type 5 Square Wide		**277** 277V
			160L-135 135W - 18,000 Lumens	**3K9** 3000K, 90 CRI			**347** 347V
			160L-160 160W - 21,000 Lumens	**4K7** 4000K, 70 CRI			**480** 480V
		2 Size 2	**320L-145** 145W - 21,000 Lumens	**4K8** 4000K, 80 CRI			
			320L-170 170W - 24,000 Lumens	**4K9** 4000K, 90 CRI			
			320L-185 185W - 27,000 Lumens	**5K7** 5000K, 70 CRI			
			320L-210 210W - 30,000 Lumens	**5K8** 5000K, 80 CRI			
			320L-235 235W - 33,000 Lumens	**BLUE** BLUE 450-455 nm			
			320L-255 255W - 36,000 Lumens				
			320L-315 [6] 315W - 40,000 Lumens				
		3 Size 3	**480L-285** 285W - 40,000 Lumens				
			480L-320 320W - 44,000 Lumens				
			480L-340 340W - 48,000 Lumens				
			480L-390 390W - 52,000 Lumens				
			480L-425 425W - 55,000 Lumens				
			480L-470 470W - 60,000 Lumens				
		4 Size 4	**720L-435** 435W - 60,000 Lumens				
			720L-475 475W - 65,000 Lumens				
			720L-515 515W - 70,000 Lumens				
			720L-565 [6] 565W - 75,000 Lumens				
			720L-600 [6] 600W - 80,000 Lumens				
			CLO Custom Lumen Output [1]				

A –	BLT –	–
Mounting	**Color**	**Options**
A Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**BLT** Black Matte Textured	**F** Fusing
A_ Arm mount for round pole [2]	**BLS** Black Gloss Smooth	**2PF** Dual Power Feed
ASQU Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern	**DBT** Dark Bronze Matte Textured	**2DR** Dual Driver
A_U Universal arm mount for round pole [2]	**DBS** Dark Bronze Gloss Smooth	**TE** Tooless Entry
AAU Adjustable arm for pole mounting (universal drill pattern)	**GTT** Graphite Matte Textured	**BC** Backlight Control [8]
AA_U Adjustable arm mount for round pole [2]	**LGS** Light Grey Gloss Smooth	**TB** Terminal Block
ADU Decorative upswept Arm (universal drill pattern)	**LGT** Light Grey Gloss Textured	**LS** Lumen Switch
AD_U Decorative upswept arm mount for round pole [2]	**PSS** Platinum Silver Smooth	
MAF Mast arm fitter for 2-3/8" OD horizontal arm	**WHT** White Matte Textured	
K Knuckle	**WHS** White Gloss Smooth	
T Trunnion	**VGT** Verde Green Textured	
WB Wall Bracket, horizontal tenon with MAF	**Color Option**	
WM Wall mount bracket with decorative upswept arm	**CC** Custom Color	
WA Wall mount bracket with adjustable arm		

Network Control Options	
NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]
Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]
Programmed Controls	
SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-5QW-HSS-360

ORDERING GUIDE (CONT'D)

CATALOG #

Accessory Type		Size		Option		Color	
SHD	Shield	1	Size 1	HSS-90-B	House Side Shield 90° Back	BLS	Black Gloss Smooth
		2	Size 2	HSS-90-F	House Side Shield 90° Front	BLT	Black Matte Textured
		3	Size 3	HSS-90-S	House Side Shield 90° Side	DBS	Dark Bronze Gloss Smooth
		4	Size 4	HSS-270-BSS	House Side Shield 270° Back/Side/Side	DBT	Dark Bronze Matte Textured
				HSS-270-FSS	House Side Shield 270° Front/Side/Side	GTT	Graphite Matte Textured
				HSS-270-FSB	House Side Shield 270° Front/Side/Back	LGS	Light Gray Gloss Smooth
				HSS-360	House Side Shield 360°	PSS	Platinum Silver Smooth
				BC	Back Light Control	WHS	White Gloss Smooth
MTG	Mounting			A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	WHT	White Matte Textured
				ASQU	Universal Arm Mount for square pole	VGT	Green Landscape Decorative
				AAU	Adjustable Arm for pole mounting	LEG	Legacy Colors
				ADU	Decorative upswept Arm	**Color Option**	
				RPA	Round Pole Adapter	CC	Custom Color
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm		
				K	Knuckle		
				T	Trunnion		
				WB	Wall Bracket (compatible with universal arm mounts)		

Accessory Type		Option	
MSC	Miscellaneous	BIRD SPK	Bird Spike

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

☐ **NXOFM-1R1D-UNV** — On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

LightGRID+ Lighting Control

☐ **WIR-RME-L** — On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with LightGRID+ Radio, 110–480VAC

☐ **SCP-REMOTE** — Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-3

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S3"

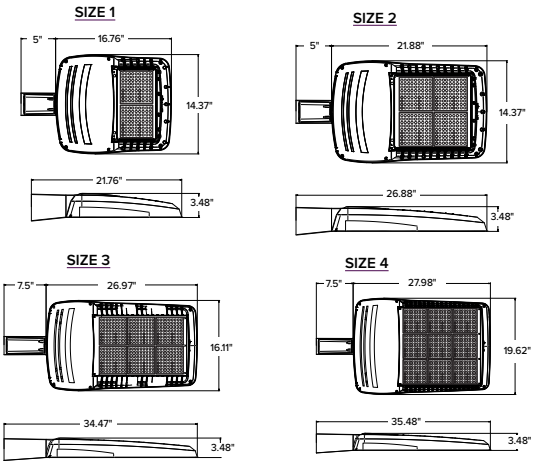
MICRO STRIKE | OPTICS STRIKE



FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #: VP-2-320L-185-4K7-3

VIPER Area/Site

VIPER LUMINAIRE

Gray Shading = Service Program Limit of 15 luminaires

QS10

MICROSTRIKE OPTICS – ORDERING GUIDE

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-185-4K7-3

VP	–		–	2	–	320L-185	–	4K7	–	3	–		–		–
Series		Optic Platform		Size		Light Engine		CCT/CRI		Distribution		Optic Rotation		Voltage	

Series

VP	Viper Area

Optic Platform

BLANK	Micro Strike

Size

1	Size 1
2	Size 2
3	Size 3
4	Size 4

Light Engine

160L-35 [6]	35W - 5,500 Lumens
160L-50 [6]	50W - 7,500 Lumens
160L-75	75W - 10,000 Lumens
160L-100	100W - 12,500 Lumens
160L-115	115W - 15,000 Lumens
160L-135	135W - 18,000 Lumens
160L-160	160W - 21,000 Lumens
320L-145	145W - 21,000 Lumens
320L-170	170W - 24,000 Lumens
320L-185	185W - 27,000 Lumens
320L-210	210W - 30,000 Lumens
320L-235	235W - 33,000 Lumens
320L-255	255W - 36,000 Lumens
320L-315 [6]	315W - 40,000 Lumens
480L-285	285W - 40,000 Lumens
480L-320	320W - 44,000 Lumens
480L-340	340W - 48,000 Lumens
480L-390	390W - 52,000 Lumens
480L-425	425W - 55,000 Lumens
480L-470	470W - 60,000 Lumens
720L-435	435W - 60,000 Lumens
720L-475	475W - 65,000 Lumens
720L-515	515W - 70,000 Lumens
720L-565 [6]	565W - 75,000 Lumens
720L-600 [6]	600W - 80,000 Lumens
CLO	Custom Lumen Output [1]

CCT/CRI

AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI
BLUE	BLUE 450-455 nm

Distribution

2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

Optic Rotation

BLANK	No Rotation
L	Optic rotation left
R	Optic rotation right

Voltage

UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

A	–	BLT	–		–
Mounting		Color		Options	

Mounting

A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color

BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

Options

F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block
LS	Lumen Switch

Network Control Options

NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]

Stand Alone Sensors

BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]

Programmed Controls

SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-3-HSS-90-B

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S3A"

MICRO STRIKE | OPTICS STRIKE

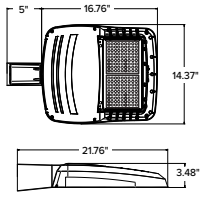


FEATURES

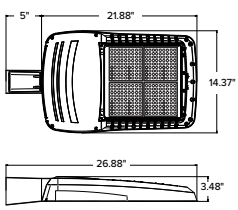
- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA

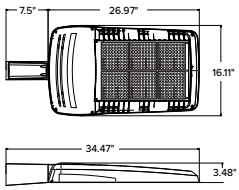
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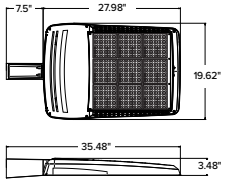
SIZE 2



SIZE 3



SIZE 4



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-3-HSS-90-B

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-185-4K7-3-HSS-90-B

VP	–		–	2	–	320L-185	–	4K7	–	3	–		–		–
Series		**Optic Platform**		**Size**		**Light Engine**		**CCT/CRI**		**Distribution**		**Optic Rotation**		**Voltage**	

Series	
VP	Viper Area

Optic Platform	
BLANK	Micro Strike

Size	
1	Size 1
2	Size 2
3	Size 3
4	Size 4

Light Engine	
160L-35 [6]	35W - 5,500 Lumens
160L-50 [6]	50W - 7,500 Lumens
160L-75	75W - 10,000 Lumens
160L-100	100W - 12,500 Lumens
160L-115	115W - 15,000 Lumens
160L-135	135W - 18,000 Lumens
160L-160	160W - 21,000 Lumens
320L-145	145W - 21,000 Lumens
320L-170	170W - 24,000 Lumens
320L-185	185W - 27,000 Lumens
320L-210	210W - 30,000 Lumens
320L-235	235W - 33,000 Lumens
320L-255	255W - 36,000 Lumens
320L-315 [6]	315W - 40,000 Lumens
480L-285	285W - 40,000 Lumens
480L-320	320W - 44,000 Lumens
480L-340	340W - 48,000 Lumens
480L-390	390W - 52,000 Lumens
480L-425	425W - 55,000 Lumens
480L-470	470W - 60,000 Lumens
720L-435	435W - 60,000 Lumens
720L-475	475W - 65,000 Lumens
720L-515	515W - 70,000 Lumens
720L-565 [6]	565W - 75,000 Lumens
720L-600 [6]	600W - 80,000 Lumens
CLO	Custom Lumen Output [1]

CCT/CRI	
AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI
BLUE	BLUE 450-455 nm

Distribution	
2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

Optic Rotation	
BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

Voltage	
UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

A	–	BLT	–		–
Mounting		**Color**		**Options**	

Mounting	
A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

Options	
F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block
LS	Lumen Switch

Network Control Options	
NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]

Stand Alone Sensors

BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]

Programmed Controls

SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-3-HSS-90-B

VIPER Area/Site

VIPER LUMINAIRE

ORDERING GUIDE (CONT'D)

CATALOG # VP-2-320L-185-4K7-3-HSS-90-B

HSS-90-B

Accessory Type		Size		Option	
SHD	Shield	**1**	Size 1	**HSS-90-B**	House Side Shield 90° Back
		2	Size 2	**HSS-90-F**	House Side Shield 90° Front
		3	Size 3	**HSS-90-S**	House Side Shield 90° Side
		4	Size 4	**HSS-270-BSS**	House Side Shield 270° Back/Side/Side
				HSS-270-FSS	House Side Shield 270° Front/Side/Side
				HSS-270-FSB	House Side Shield 270° Front/Side/Back
				HSS-360	House Side Shield 360°
				BC	Back Light Control
MTG	Mounting			**A**	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)
				ASQU	Universal Arm Mount for square pole
				AAU	Adjustable Arm for pole mounting
				ADU	Decorative upswept Arm
				RPA	Round Pole Adapter
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm
				K	Knuckle
				T	Trunnion
				WB	Wall Bracket (compatible with universal arm mounts)

Accessory Type		Option	
MSC	Miscellaneous	**BIRD SPK**	Bird Spike

Color	
BLS	Black Gloss Smooth
BLT	Black Matte Textured
DBS	Dark Bronze Gloss Smooth
DBT	Dark Bronze Matte Textured
GTT	Graphite Matte Textured
LGS	Light Gray Gloss Smooth
PSS	Platinum Silver Smooth
WHS	White Gloss Smooth
WHT	White Matte Textured
VGT	Green Landscape Decorative
LEG	Legacy Colors
Color Option	
CC	Custom Color

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

☐ **NXOFM-1R1D-UNV** On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

LightGRID+ Lighting Control

☐ **WIR-RME-L** On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with LightGRID+ Radio, 110–480VAC

☐ **SCP-REMOTE** Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-4F-HSS-270-BSS

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S3B"

MICRO STRIKE | OPTICS STRIKE

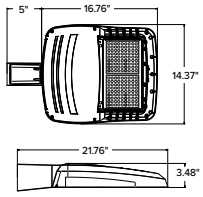


FEATURES

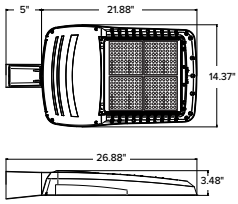
- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA

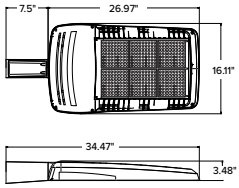
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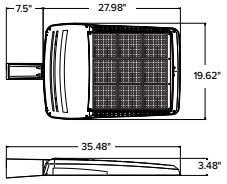
SIZE 2



SIZE 3



SIZE 4



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-4F-HSS-270-BSS

VIPER Area/Site

VIPER LUMINAIRE

Gray Shading = Service Program Limit of 15 luminaires

QS10

MICROSTRIKE OPTICS – ORDERING GUIDE

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-185-4K7-4F-HSS-270-BSS

VP – Series

VP	Viper Area

Optic Platform

BLANK	Micro Strike

2 – Size

1	Size 1
2	Size 2
3	Size 3
4	Size 4

320L-185 – Light Engine

160L-35 [6]	35W - 5,500 Lumens
160L-50 [6]	50W - 7,500 Lumens
160L-75	75W - 10,000 Lumens
160L-100	100W - 12,500 Lumens
160L-115	115W - 15,000 Lumens
160L-135	135W - 18,000 Lumens
160L-160	160W - 21,000 Lumens
320L-145	145W - 21,000 Lumens
320L-170	170W - 24,000 Lumens
320L-185	185W - 27,000 Lumens
320L-210	210W - 30,000 Lumens
320L-235	235W - 33,000 Lumens
320L-255	255W - 36,000 Lumens
320L-315 [6]	315W - 40,000 Lumens
480L-285	285W - 40,000 Lumens
480L-320	320W - 44,000 Lumens
480L-340	340W - 48,000 Lumens
480L-390	390W - 52,000 Lumens
480L-425	425W - 55,000 Lumens
480L-470	470W - 60,000 Lumens
720L-435	435W - 60,000 Lumens
720L-475	475W - 65,000 Lumens
720L-515	515W - 70,000 Lumens
720L-565 [6]	565W - 75,000 Lumens
720L-600 [6]	600W - 80,000 Lumens
CLO	Custom Lumen Output [1]

4K7 – CCT/CRI

AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI
BLUE	BLUE 450-455 nm

4F – Distribution

2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

Optic Rotation

BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

Voltage

UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

A – Mounting

A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

BLT – Color

BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

Options

F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block
LS	Lumen Switch

Network Control Options

NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]

Stand Alone Sensors

BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]

Programmed Controls

SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-4F-HSS-270-BSS

ORDERING GUIDE (CONT'D)

CATALOG # VP-2-320L-185-4K7-4F-HSS-270-BSS

HSS-270-BSS

Accessory Type		Size		Option		Color	
SHD	Shield	**1**	Size 1	**HSS-90-B**	House Side Shield 90° Back	**BLS**	Black Gloss Smooth
		2	Size 2	**HSS-90-F**	House Side Shield 90° Front	**BLT**	Black Matte Textured
		3	Size 3	**HSS-90-S**	House Side Shield 90° Side	**DBS**	Dark Bronze Gloss Smooth
		4	Size 4	**HSS-270-BSS**	House Side Shield 270° Back/Side/Side	**DBT**	Dark Bronze Matte Textured
				HSS-270-FSS	House Side Shield 270° Front/Side/Side	**GTT**	Graphite Matte Textured
				HSS-270-FSB	House Side Shield 270° Front/Side/Back	**LGS**	Light Gray Gloss Smooth
				HSS-360	House Side Shield 360°	**PSS**	Platinum Silver Smooth
				BC	Back Light Control	**WHS**	White Gloss Smooth
MTG	Mounting			**A**	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**WHT**	White Matte Textured
				ASQU	Universal Arm Mount for square pole	**VGT**	Green Landscape Decorative
				AAU	Adjustable Arm for pole mounting	**LEG**	Legacy Colors
				ADU	Decorative upswept Arm	**Color Option**	
				RPA	Round Pole Adapter	**CC**	Custom Color
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm		
				K	Knuckle		
				T	Trunnion		
				WB	Wall Bracket (compatible with universal arm mounts)		

Accessory Type		Option	
MSC	Miscellaneous	**BIRD SPK**	Bird Spike

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

☐ **NXOFM-1R1D-UNV** — On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

LightGRID+ Lighting Control

☐ **WIR-RME-L** — On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with LightGRID+ Radio, 110–480VAC

☐ **SCP-REMOTE** — Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-5QW

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S5A"

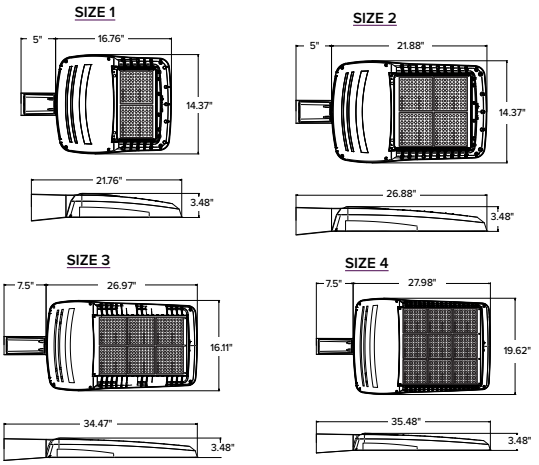
MICRO STRIKE | OPTICS STRIKE



FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-5QW

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-185-4K7-5QW

VP		2	320L-185	4K7	5QW		
Series	**Optic Platform**	**Size**	**Light Engine**	**CCT/CRI**	**Distribution**	**Optic Rotation**	**Voltage**
VP Viper Area	**BLANK** Micro Strike	**1** Size 1	**160L-35** [6] 35W - 5,500 Lumens	**AP** AP-Amber Phosphor Converted	**2** Type 2	**BLANK** No Rotation	**UNV** 120-277V
			160L-50 [6] 50W - 7,500 Lumens	**27K8** 2700K, 80 CRI	**3** Type 3	**L** Optic rotation left	**120** 120V
			160L-75 75W - 10,000 Lumens	**3K7** 3000K, 70 CRI	**4F** Type 4 Forward	**R** Optic rotation right	**208** 208V
			160L-100 100W - 12,500 Lumens	**3K8** 3000K, 80 CRI	**4W** Type 4 Wide		**240** 240V
			160L-115 115W - 15,000 Lumens	**35K8** 3500K, 80 CRI	**5QW** Type 5 Square Wide		**277** 277V
			160L-135 135W - 18,000 Lumens	**3K9** 3000K, 90 CRI			**347** 347V
			160L-160 160W - 21,000 Lumens	**4K7** 4000K, 70 CRI			**480** 480V
		2 Size 2	**320L-145** 145W - 21,000 Lumens	**4K8** 4000K, 80 CRI			
			320L-170 170W - 24,000 Lumens	**4K9** 4000K, 90 CRI			
			320L-185 185W - 27,000 Lumens	**5K7** 5000K, 70 CRI			
			320L-210 210W - 30,000 Lumens	**5K8** 5000K, 80 CRI			
			320L-235 235W - 33,000 Lumens	**BLUE** BLUE 450-455 nm			
			320L-255 255W - 36,000 Lumens				
			320L-315 [6] 315W - 40,000 Lumens				
		3 Size 3	**480L-285** 285W - 40,000 Lumens				
			480L-320 320W - 44,000 Lumens				
			480L-340 340W - 48,000 Lumens				
			480L-390 390W - 52,000 Lumens				
			480L-425 425W - 55,000 Lumens				
			480L-470 470W - 60,000 Lumens				
		4 Size 4	**720L-435** 435W - 60,000 Lumens				
			720L-475 475W - 65,000 Lumens				
			720L-515 515W - 70,000 Lumens				
			720L-565 [6] 565W - 75,000 Lumens				
			720L-600 [6] 600W - 80,000 Lumens				
			CLO Custom Lumen Output [1]				

A	BLT		
Mounting	**Color**	**Options**	**Network Control Options**
A Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**BLT** Black Matte Textured	**F** Fusing	**NXWS-16F** NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
A_ Arm mount for round pole [2]	**BLS** Black Gloss Smooth	**2PF** Dual Power Feed	**NXWS-40F** NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
ASQU Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern	**DBT** Dark Bronze Matte Textured	**2DR** Dual Driver	**NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
A_U Universal arm mount for round pole [2]	**DBS** Dark Bronze Gloss Smooth	**TE** Tooless Entry	**WIR** LightGRID+ In-Fixture Module [3,4]
AAU Adjustable arm for pole mounting (universal drill pattern)	**GTT** Graphite Matte Textured	**BC** Backlight Control [8]	**WIRSC-14F** LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
AA_U Adjustable arm mount for round pole [2]	**LGS** Light Grey Gloss Smooth	**TB** Terminal Block	**WIRSC-40F** LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]
ADU Decorative upswept Arm (universal drill pattern)	**LGT** Light Grey Gloss Textured	**LS** Lumen Switch	**Stand Alone Sensors**
AD_U Decorative upswept arm mount for round pole [2]	**PSS** Platinum Silver Smooth		**BTS-14F** Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
MAF Mast arm fitter for 2-3/8" OD horizontal arm	**WHT** White Matte Textured		**BTS-40F** Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
K Knuckle	**WHS** White Gloss Smooth		**BTSO-12F** Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
T Trunnion	**VGT** Verde Green Textured		**7PR** 7-Pin Receptacle [4]
WB Wall Bracket, horizontal tenon with MAF	**Color Option**		**7PR-SC** 7-Pin Receptacle with shorting cap [4]
WM Wall mount bracket with decorative upswept arm	**CC** Custom Color		**7PR-TL** 7-Pin PCR with NEMA photocontrol [4]
WA Wall mount bracket with adjustable arm			**3PR** 3-Pin Receptacle [4]
			3PR-SC 3-Pin receptacle with shorting cap [4]
			3PR-TL 3-Pin PCR with NEMA photocontrol [4]
			Programmed Controls
			SCP-_F Sensor Control Programmable, 8F or 40F [9]
			ADD AutoDim Timer Based Dimming [10]
			ADT AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-3

TYPE "S5B"

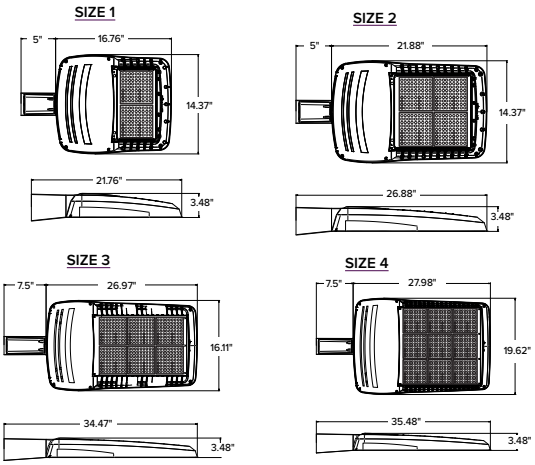
MICRO STRIKE | OPTICS STRIKE



FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: VP-2-320L-185-4K7-3

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG # VP-2-320L-185-4K7-3

VP –	–	2 –	320L-185 –	4K7 –	3 –	–	–
Series	**Optic Platform**	**Size**	**Light Engine**	**CCT/CRI**	**Distribution**	**Optic Rotation**	**Voltage**
VP Viper Area	**BLANK** Micro Strike	**1** Size 1	**160L-35** [6] 35W - 5,500 Lumens	**AP** AP-Amber Phosphor Converted	**2** Type 2	**BLANK** No Rotation	**UNV** 120-277V
			160L-50 [6] 50W - 7,500 Lumens	**27K8** 2700K, 80 CRI	**3** Type 3	**L** Optic rotation left	**120** 120V
			160L-75 75W - 10,000 Lumens	**3K7** 3000K, 70 CRI	**4F** Type 4 Forward	**R** Optic rotation right	**208** 208V
			160L-100 100W - 12,500 Lumens	**3K8** 3000K, 80 CRI	**4W** Type 4 Wide		**240** 240V
			160L-115 115W - 15,000 Lumens	**35K8** 3500K, 80 CRI	**5QW** Type 5 Square Wide		**277** 277V
			160L-135 135W - 18,000 Lumens	**3K9** 3000K, 90 CRI			**347** 347V
			160L-160 160W - 21,000 Lumens	**4K7** 4000K, 70 CRI			**480** 480V
		2 Size 2	**320L-145** 145W - 21,000 Lumens	**4K8** 4000K, 80 CRI			
			320L-170 170W - 24,000 Lumens	**4K9** 4000K, 90 CRI			
			320L-185 185W - 27,000 Lumens	**5K7** 5000K, 70 CRI			
			320L-210 210W - 30,000 Lumens	**5K8** 5000K, 80 CRI			
			320L-235 235W - 33,000 Lumens	**BLUE** BLUE 450-455 nm			
			320L-255 255W - 36,000 Lumens				
			320L-315 [6] 315W - 40,000 Lumens				
		3 Size 3	**480L-285** 285W - 40,000 Lumens				
			480L-320 320W - 44,000 Lumens				
			480L-340 340W - 48,000 Lumens				
			480L-390 390W - 52,000 Lumens				
			480L-425 425W - 55,000 Lumens				
			480L-470 470W - 60,000 Lumens				
		4 Size 4	**720L-435** 435W - 60,000 Lumens				
			720L-475 475W - 65,000 Lumens				
			720L-515 515W - 70,000 Lumens				
			720L-565 [6] 565W - 75,000 Lumens				
			720L-600 [6] 600W - 80,000 Lumens				
			CLO Custom Lumen Output [1]				

A –	BLT –	–	–
Mounting	**Color**	**Options**	**Network Control Options**
A Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**BLT** Black Matte Textured	**F** Fusing	**NXWS-16F** NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
A_ Arm mount for round pole [2]	**BLS** Black Gloss Smooth	**2PF** Dual Power Feed	**NXWS-40F** NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
ASQU Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern	**DBT** Dark Bronze Matte Textured	**2DR** Dual Driver	**NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
A_U Universal arm mount for round pole [2]	**DBS** Dark Bronze Gloss Smooth	**TE** Tooless Entry	**WIR** LightGRID+ In-Fixture Module [3,4]
AAU Adjustable arm for pole mounting (universal drill pattern)	**GTT** Graphite Matte Textured	**BC** Backlight Control [8]	**WIRSC-14F** LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
AA_U Adjustable arm mount for round pole [2]	**LGS** Light Grey Gloss Smooth	**TB** Terminal Block	**WIRSC-40F** LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]
ADU Decorative upswept Arm (universal drill pattern)	**LGT** Light Grey Gloss Textured	**LS** Lumen Switch	**Stand Alone Sensors**
AD_U Decorative upswept arm mount for round pole [2]	**PSS** Platinum Silver Smooth		**BTS-14F** Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
MAF Mast arm fitter for 2-3/8" OD horizontal arm	**WHT** White Matte Textured		**BTS-40F** Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
K Knuckle	**WHS** White Gloss Smooth		**BTSO-12F** Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
T Trunnion	**VGT** Verde Green Textured		**7PR** 7-Pin Receptacle [4]
WB Wall Bracket, horizontal tenon with MAF	**Color Option**		**7PR-SC** 7-Pin Receptacle with shorting cap [4]
WM Wall mount bracket with decorative upswept arm	**CC** Custom Color		**7PR-TL** 7-Pin PCR with NEMA photocontrol [4]
WA Wall mount bracket with adjustable arm			**3PR** 3-Pin Receptacle [4]
			3PR-SC 3-Pin receptacle with shorting cap [4]
			3PR-TL 3-Pin PCR with NEMA photocontrol [4]
			Programmed Controls
			SCP-_F Sensor Control Programmable, 8F or 40F [9]
			ADD AutoDim Timer Based Dimming [10]
			ADT AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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CAL ARIA LED Specifications



Project Name:

Catalog Number:
CAL-5-L-T5-48LC-5-4K-UNV-PT-BK

Type:

Beauty meets performance in this feature-rich and highly versatile **California Aria** luminaire series. The California Aria LED Array offers excellent control and an exceptionally long life. Our high-efficiency light engines house our latest LEDs for a CRI of 70, and increased energy savings. Available in 3,000, 4,000 or 5000 Kelvin.

The California Aria Arrays fully-sealed housing features an exceptionally well-designed thermal management system that provides superior heat dissipation.

The California Aria Array is a strong, die cast aluminum fixture, manufactured in five architecturally pleasing housing styles, with mix and match finials and a variety of finishes to choose from. Tool-less entry makes this luminaire's maintenance a breeze.

This post top luminaire is a IES full cutoff fixture to restrict light trespass, glare and light pollution for neighborhood-friendly outdoor lighting that is especially desirable in any pedestrian locale.

The **California Aria** is a perfect compliment to any shopping center, park, walkway or boardwalk environment.

Ordering Information

MODEL	OPTICS	SOURCE	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS
CAL-5-L	T5	48LC	5	4K	UNV	PT	BK	
CAL-1-L **CAL-3-L** **CAL-5-L**	**T1** Type 1 **T2** Type 2 **T3** Type 3 **T4** Type 4 **T4A** Type 4 Automotive **T5** Type 5 **T5W** Type 5 Wide	**16LC** **32LC** **48LC** **64LC** **80LC** **96LC**	**3** 350mA **5** 530mA	**3K** 3000K **4K** 4000K **5K** 5000K	**UNV** 120-277V **8** 347V **5** 480V	**PT** Post Top Slips over 3"ØD tenon × 4" tall **WM** Wall Mount *VA Wall Mount Arm Required	**BZ** Bronze **BK** Black **SBK** Smooth Black **WH** White **SWH** Smooth White **GP** Graphite **GY** Grey **SL** Silver Metallic **CC** Custom Color	**FIN1** **FIN2** **FIN3** **FIN4** **PC-120** Button Type Photocell **PC-208** Button Type Photocell **PC-240** Button Type Photocell **PC-277** Button Type Photocell **CLS** Cut-Off Light Shield **DIM** 0-10V Dimming Driver **VWC** Visionaire Wireless Controls *Consult Factory

VISIONAIRE LIGHTING

prescolite

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: LFR-4RD-M-10L35K8WD-DM1/LFR-4RD-T-S-CL

LFR-4RD

LITEFRAME 4" ROUND DOWNLIGHT

TYPE "S7A"

LITEFRAME 2.0



FEATURES

- 4" LED downlight delivering 1000–6000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications
- Optional housing accessories available
- Five beam distributions
- 2700K–5000K, 80+ and 90+ CRI (2 SDCM)
- Dimming protocols include 0–10V, Phase (Forward/Reverse), DALI, DMX, and Lutron EcoSystem
- NX Lighting Controls wired and wireless controls capability available

C SP US | WET LOCATION | IP65

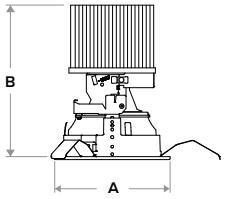
With CL Lens Option

SERVICE PROGRAMS

STOCK QS10

CONTROLS TECHNOLOGY

NX WIRELESS | NX WIRED



Typical Dimensions and Weights			
Lumen Package	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)
10L - 30L	5.37 (136)	5.45 (138)	4 (1.8)
35L - 60L	5.37 (136)	7.03 (179)	4.3 (1.9)

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION

- Standard Fixture Module designed for Non-IC, Direct Install construction
- Optional Non-IC frame or IC housing available with pre-installed bar hangers
- Die cast aluminum fixture module support ring with spring steel clips for secure mounting to ceiling
- Driver J-Box can be installed and accessed from below the ceiling as direct install or easily snap on to optional housing frame/enclosure
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- High purity spun aluminum reflector, self-flanged
- 57° visual cutoff to source image and 31° cutoff to source
- Specular or Semi-Specular anodized or White painted cone reflector finish/colors
- Painted flange options in White or Black
- Optional clear lens trim for wet location applications
- Wide Angle and Soft Focus lens filter/clip accessories available

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >50,000 hours (TM-21)

ELECTRICAL (CONTINUED)

- Universal voltage 120–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection
- Flicker-free dimming options in a wide range of protocols from 1% to <0.1% performance
- 0–10V, Phase (Forward/Reverse), DALI, DMX, and Lutron EcoSystem options
- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- Integral and remote emergency battery options available

INSTALLATION

- Accommodates ceiling thickness from 0.50" to 2.50"
- Fixture Module including driver fully accessible from above or below the ceiling
- 10L Fixture Modules are inherently protected IC without the use of IC housing enclosure. (IC housing is still recommended when using loose-fill or spray foam insulation types.)

CERTIFICATIONS

- cCSAus certified to UL 1598
- For ≥50L: Marked spacing required 36" fixture center to center; 18" fixture center to building member; 0.5" above fixture

CERTIFICATIONS (CONTINUED)

- Suitable for wet locations, covered ceiling when used with CL lens trim; all other configurations, suitable for damp locations
- CL Lens option: IP65 rated (room side) when properly installed per installation instructions
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- EM/EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	1000–6000
Wattage Range	8–54
Efficacy Range (LPW)	105–135
Reported Life (Hours)	L90 / >50,000
Input Current (mA)	66–450 (120V)

*Based on Specular, 35K, 80 CRI

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prescolite

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: LFR-4RD-M-10L35K8WD-DM1/LFR-4RD-T-S-CL

LFR-4RD

LITEFRAME 4" ROUND DOWNLIGHT

Gray Shading = Service Program STOCK QS10 Limit of 150 Luminaries

ORDERING GUIDE

Example: LFR–4RD–M–10L35K8–WD–DM1 / LFR–4RD–T–S / LFR-4RD-H

CATALOG # LFR-4RD-M-10L35K8WD-DM1/LFR-4RD-T-S-CL

FIXTURE MODULE

LFR-4RD-M – 10L | 35K | 8 – WD – DM1 | | | –

Ap/Shp/Funct	Lumen Output	CCT	CRI	Distribution	Driver Options	Control Options	Voltage	Module Options
LFR-4RD-M 4" Round Downlight Fixture Module for Direct Install *(Non-IC frame or IC housing available under Housing Options below)*	**10L** 1000 **15L** 1500 **20L** 2000 **25L** 2500 **30L** 3000 **35L** 3500 **40L** 4000 **50L** 5000 [1] **60L** 6000 [1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K	**8** 80+ **9** 90+	**VNR** Very Narrow (17°/0.3 SC) **NR** Narrow (26°/0.4 SC) **MD** Medium (34°/0.6 SC) **WD** Wide (49°/0.7 SC) **XW** Extra Wide (65°/1.0 SC) [12]	**DM1** 0–10V Dimming to 1% **DM01** 0–10V Dimming to < 1% [2] **PDM** Phase (Forward/Reverse) Dimming to 1% [2] **DMX** DMX with RDM dimming to < 0.1% [2] **DALI** DALI Dimming to 1% [2] **EDM** Lutron Hi-Lume EcoSystem Dimming to 1% [2]	**NX Lighting Controls** Networked Wireless **NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3] Networked Wired **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor [3]	*Standard 120–277V* **34** 347V [4]	**CP** Chicago Plenum [5, 6] **EM** 6W Emergency Battery Pack (CEC Title 20 Compliant) with integral test switch and indicator light [6] **EMR** 6W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [6] **DTS** Device Transfer Switch with Dimming Bypass [6, 7]

TRIM (Ships separately)

LFR-4RD-T – | – S | | CL |

Aperture/Shape/Function	Distribution	Reflector Finish/Color	Flange Color Options	Lens Options	Lower Trim Options
LFR-4RD-T 4" Round Downlight Trim Assembly	*Standard NR, MD, WD, XW* **VNR** Very Narrow	**S** Specular [12] **SS** Semi-Specular **WC** Painted White Cone and Flange	*Standard matches reflector color* **WT** White Flange [8] **BT** Black Flange	*Standard no lens* **CL** Clear Lens (Wet listed) [9]	**EM** Pre-punched reflector for EM integral test switch and indicator [9] **FM** Flush Mount Mud-In Ring [13]

HOUSING OPTIONS (Ships separately)

Aperture/Shape/Function	
☐ **LFR-4RD-H**	4" Housing Frame, New Construction, Non-IC
☐ **LFR-4RD-H-IC**	4" Housing Enclosure, New Construction, IC Rated [10, 11]

Accessories	
☐ **SFL4**	Soft Focus Lens and Clip, 4" Round
☐ **WAL4**	Wide Angle 80° Lens and Clip, 4" Round
☐ **LiteGear**	LiteGear® Inverter, 125VA–250VA
☐ **LPS Series**	LightPower Micro-Inverter, 20VA–55VA
☐ **LF-FMR4-R**	Flush Mount Mud-in Ring, 4" [13]
☐ **LF-MOR4-R-WH**	Metal Oversized Ring, 4" Round, White (8.3" outside diameter)
☐ **LFR-SCA4-__**	Sloped Ceiling Adapter, 4" White [14]

Notes:

1 50L and 60L require marked spacing. See line art for more details.
2 DM01, PDM, DMX, DALI available up to 50L. EDM available 15L–40L.
3 NX requires DM1 driver option.
4 347V requires DM1 driver option; available 10L–40L; not available with Controls, DTS, EM, EMR.
5 CP not available with PDM, DMX, or Controls.
6 Module options not available in combination.
7 DTS available with DM1, DM01, or DALI.
8 WT not needed for WC.
9 CL lens and EM trim options not available in combination.
10 IC available up to 35L; 10L Fixture Modules are inherently protected IC without the use of IC housing enclosure. (IC housing is still recommended when using loose-fill or spray foam insulation types.)
11 IC Housing not for use in combination with Controls or with Module Options CP, EM, EMR, DTS.
12 XW distribution is not available for Specular (S) reflector finish.
13 Flush Mount Flange (FM) requires FMR accessory (sold separately).
14 Specify slope angle 5°–35° in 5° increments. Not available with EM or FM options.

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GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

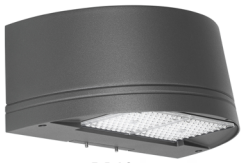
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	QSP2-36L-25-4K7-4F

FEATURES

- Mid sized architectural wallpacks in three stylish shapes
- Capable of replacing up to 400w HID luminaires
- Type 2, 3, 4F and 4W distributions for a wide variety of applications
- Integral battery backup options
- Control capabilities offer additional energy savings options
- Zero uplight distributions



TRP2



RDI2



QSP2

TYPE "S8"

C US

PROUDLY ASSEMBLED IN THE UNITED STATES OF AMERICA BAA

CEC T20 COMPLIANT

SPECIFICATIONS

CONSTRUCTION

- Die-cast aluminum housing and door
- Seven powder coat standard finishes, plus custom color options
- Meets ASTM B117 with 1,000 hours of salt spray exposure

OPTICS

- LEDs deliver up to 15,000 lumens
- Up to 155 lumens per watt (LPW)
- Different lenses offer a variety of distribution patterns - Type 2, 3, 4F & 4W
- CCT: 3000K, 4000K, and 5000K
- CRI: 70 and 80

INSTALLATION

- Quick-mount adapter with gasket seal provides easy installation to wall or to recessed junction box (4" square junction box). Fixture attaches by two Allen-head hidden fasteners for tamper resistance
- Back box accessory available for surface conduit application

ELECTRICAL

- Optional Dual Drivers & Dual Power Feed
- 120-277, 347 and 480 voltage, 50/60Hz
- Power factor > 90%
- THD (Total Harmonic Distortion) <20%

ELECTRICAL (CONTINUED)

- Ambient operating temperature -40°C to 40°C
- Optional: 20kA surge protection device (series); Automatically takes fixture off-line when device is consumed
- Integral Battery Backup provides emergency lighting with 13W of power for the required 90 minutes for path of egress
- Independent dedicated driver and LED array for battery/emergency mode operation

CONTROLS

- Drivers are 0-10V dimming standard
- Universal button photocontrol for dusk to dawn energy savings
- Photocell and occupancy sensor options available for complete on/off and dimming control
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options can not be included in one same fixture.

CERTIFICATIONS

- IP65 rated housing
- Zero uplight (U0), dark sky, neighbor friendly
- Drivers IP66 and RoHS compliant
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy American Solutions.

WARRANTY

- 5 year limited warranty

KEY DATA	
Lumen Range	3,500–15,000
Wattage Range	24–126
Efficacy Range (LPW)	95–154
Weights lbs. (kg)	16–18 (7.3–8.2)

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GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: QSP2-36L-25-4K7-4F

ORDERING GUIDE

Example: TRP2–36L-25–3K7–2–UNV–DBT

CATALOG # QSP2-36L-25-4K7-4F

ORDERING INFORMATION

QSP2 – 36L-25 – 4K7 – 4F – [ ] –

Series	
TRP2	Trapezoid
RDI2	Radius
QSP2	Quartersphere

# LEDs - Wattage	
36L-25	4,200 Lumens (Strike)
36L-39	5,700 Lumens (Strike)
36L-55	7,700 Lumens (Strike)
36L-85	10,300 Lumens (Strike)
36L-105	12,300 Lumens (Strike)
36L-120	13,100 Lumens (Strike)
160L-25	3,600 Lumens (Micro Strike)
160L-35	5,500 Lumens (Micro Strike)
160L-50	7,700 Lumens (Micro Strike)
160L-75	9,700 Lumens (Micro Strike)
160L-100	12,000 Lumens (Micro Strike)
160L-115	14,600 Lumens (Micro Strike)

CCT/CRI	
27K8	2700K, 70 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI

Distribution	
2	TYPE 2
3	TYPE 3
4W	TYPE 4W
4F	TYPE 4 Forward

Voltage	
UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured
Color Option	
CC	Custom Color

Control Options	
PC	Button Photocontrol
NXW	NX Wireless Radio (No Sensor)
NXWS	NX Wireless Sensor w/BT
BTSO	Bluetooth Sensor OMNI
CD	Customer Dimming
Mount Height	
-12F	Up to 12ft mount height

Options	
SF [1]	Single fuse & fuse holder
DF [1]	Double fuse & fuse holder
E [2, 3, 4]	Battery pack (0°C)
EH [2, 3, 4]	Battery pack (-20°C) with heater
2DR [5]	Dual Drivers
2PF [2, 5]	Dual power feeds
SP	Surge Protector

Notes:

1 Must specify voltage
2 Battery option not compatible with 2 power feeds
3 E and EH options available for 160L-25, 160L-35, 160L-50, 36L-25, 36L-39, and 36L-55
4 E and EH available for UNV, 120, 208, 240, 277V
5 Option only available with 36L-85, 36L-105, 36L-120, 160L-75, 160L-100, and 160L-115.

ACCESSORIES (ORDERED SEPARATELY)

	Catalog Number	Description
☐	WP-BB-DBT	Backbox with four 1/2" threaded conduit holes painted Dark Bronze Texture

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LFR-6RD

LITEFRAME 6" ROUND DOWNLIGHT

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: LFR-6RD-M-40L35K8MD-DM1/LFR-6RD-T-S-CL

LITEFRAME 2.0

TYPE "S9"



FEATURES

- 6" LED downlight delivering 1000–8000 lumens
- Direct Install from below ceiling for New Construction or Remodel applications
- Optional housing accessories available
- Five beam distributions
- 2700K–5000K, 80+ and 90+ CRI (2 SDCM)
- Dimming protocols include 0–10V, Phase (Forward/Reverse), DALI, DMX, and Lutron EcoSystem
- NX Lighting Controls wired and wireless controls capability available

C SP® US | WET LOCATION | IP65

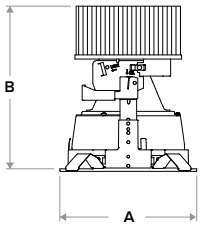
With CL Lens Option

SERVICE PROGRAMS

STOCK QS10

CONTROLS TECHNOLOGY

NX WIRELESS | NX WIRED



Typical Dimensions and Weights			
Lumen Package	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)
10L - 35L	7.13 (181)	6.71 (170)	4.4 (2)
40L - 50L	7.13 (181)	7.28 (185)	4.6 (2.1)
60L - 80L	7.13 (181)	8.47 (215)	5.2 (2.4)

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION

- Standard Fixture Module designed for Non-IC, Direct Install construction
- Optional Non-IC frame or IC housing available with pre-installed bar hangers
- Die cast aluminum fixture module support ring with spring steel clips for secure mounting to ceiling
- Driver J-Box can be installed and accessed from below the ceiling as direct install or easily snap on to optional housing frame/enclosure
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- High purity spun aluminum reflector, self-flanged
- 57° visual cutoff to source image and 31° cutoff to source
- Specular or Semi-Specular anodized or White painted cone reflector finish/colors
- Painted flange options in White or Black
- Optional clear lens trim for wet location applications
- Wide Angle and Soft Focus lens filter/clip accessories available

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >50,000 hours (TM-21)

ELECTRICAL (CONTINUED)

- Universal voltage 120–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection
- Flicker-free dimming options in a wide range of protocols from 1% to <0.1% performance
- 0–10V, Phase (Forward/Reverse), DALI, DMX, and Lutron EcoSystem options
- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- Integral and remote emergency battery options available

INSTALLATION

- Accommodates ceiling thickness from 0.50" to 2.50"
- Fixture Module including driver fully accessible from above or below the ceiling
- 10L–15L Fixture Modules are inherently protected IC without the use of IC housing enclosure. (IC housing is still recommended when using loose-fill or spray foam insulation types.)

CERTIFICATIONS

- cCSAus certified to UL 1598
- For ≥60L: Marked spacing required 36" fixture center to center; 18" fixture center to building member; 0.5" above fixture

CERTIFICATIONS (CONTINUED)

- Suitable for wet locations, covered ceiling when used with CL lens trim; all other configurations, suitable for damp locations
- CL Lens option: IP65 rated (room side) when properly installed per installation instructions
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- EM/EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	1000–8000
Wattage Range	8–71
Efficacy Range (LPW)	118–143
Reported Life (Hours)	L90 / >50,000
Input Current (mA)	66–592 (120V)

*Based on Specular, 35K, 80 CRI

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: LFR-6RD-M-40L35K8MD-DM1/LFR-6RD-T-S-CL

LFR-6RD

LITEFRAME 6" ROUND DOWNLIGHT

Gray Shading = Service Program STOCK QS10 Limit of 150 Luminaries

ORDERING GUIDE

Example: LFR–6RD–M–10L35K8–WD–DM1 / LFR–6RD–T–S / LFR-6RD-H

CATALOG # LFR-6RD-M-40L35K8MD-DM1/LFR-6RD-T-S-CL

FIXTURE MODULE

LFR-6RD-M	–	40L	35K	8	–	MD	–	DM1			–	
Ap/Shp/Funct		**Lumen Output**	**CCT**	**CRI**		**Distribution**		**Driver Options**	**Control Options**	**Voltage**		**Module Options**
LFR-6RD-M 6" Round Downlight Fixture Module for Direct Install *(Non-IC frame or IC housing available under Housing Options below)*		**10L** 1000 **15L** 1500 **20L** 2000 **25L** 2500 **30L** 3000 **35L** 3500 **40L** 4000 **50L** 5000 **60L** 6000 [1] **70L** 7000 [1] **80L** 8000 [1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K	**8** 80+ **9** 90+		**VNR** Very Narrow (15°/0.3 SC) **NR** Narrow (25°/0.4 SC) **MD** Medium (38°/0.7 SC) **WD** Wide (46°/0.7 SC) **XW** Extra Wide (59°/0.9 SC) [12]		**DM1** 0–10V Dimming to 1% **DM01** 0–10V Dimming to < 1% [2] **PDM** Phase (Forward/Reverse) Dimming to 1% [2] **DMX** DMX with RDM dimming to < 0.1% [2] **DALI** DALI Dimming to 1% [2] **EDM** Lutron Hi-Lume EcoSystem Dimming to 1% [2]	**NX Lighting Controls** Networked Wireless **NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3] Networked Wired **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor [3]	*Standard 120–277V* **34** 347V [4]		**CP** Chicago Plenum [5, 6] **EM** 6W Emergency Battery Pack (CEC Title 20 Compliant) with integral test switch and indicator light [6] **EMR** 6W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [6] **DTS** Device Transfer Switch with Dimming Bypass [6, 7]

TRIM (Ships separately)

LFR-6RD-T	–		–	S		CL	
Aperture/Shape/Function		**Distribution**		**Reflector Finish/Color**	**Flange Color Options**	**Lens Options**	**Lower Trim Options**
LFR-6RD-T 6" Round Downlight Trim Assembly		*Standard NR, MD, WD, XW* **VNR** Very Narrow		**S** Specular [12] **SS** Semi-Specular **WC** Painted White Cone and Flange	*Standard matches reflector color* **WT** White Flange [8] **BT** Black Flange	*Standard no lens* **CL** Clear Lens (Wet listed) [9]	**EM** Pre-punched reflector for EM integral test switch and indicator [9] **FM** Flush Mount Mud-In Ring [13]

HOUSING OPTIONS (Ships separately)

Aperture/Shape/Function	
☐ **LFR-6RD-H**	6" Housing Frame, New Construction, Non-IC
☐ **LFR-6RD-H-IC**	6" Housing Enclosure, New Construction, IC Rated [10, 11]

Accessories	
☐ **SFL6**	Soft Focus Lens and Clip, 6" Round
☐ **WAL6**	Wide Angle 80° Lens and Clip, 6" Round
☐ **LiteGear**	LiteGear® Inverter, 125VA–250VA
☐ **LPS Series**	LightPower Micro-Inverter, 20VA–55VA
☐ **LF-FMR6-R**	Flush Mount Mud-in Ring, 6" [13]
☐ **LF-MOR6-R-WH**	Metal Oversized Ring, 6" Round, White (10.12" outside diameter)
☐ **LFR-SCA6-__**	Sloped Ceiling Adapter, 6" White [14]

Notes:

1 60L–80L require marked spacing. See line art for more details.
2 DM01, PDM, DMX, DALI available up to 50L. EDM available 15L–40L.
3 NX requires DM1 driver option.
4 347V requires DM1 driver option; available 10L–40L; not available with Controls, DTS, EM, EMR.
5 CP not available with PDM, DMX, or Controls.
6 Module options not available in combination.
7 DTS available with DM1, DM01 or DALI.
8 WT not needed for WC.
9 CL lens and EM trim options not available in combination.
10 IC available up to 35L; 10L–15L Fixture Modules are inherently protected IC without the use of IC housing enclosure. (IC housing is still recommended when using loose-fill or spray foam insulation types.)
11 IC Housing not for use in combination with Controls or with Module Options CP, EM, EMR, DTS.
12 XW distribution is not available for Specular (S) reflector finish.
13 Flush Mount Flange (FM) requires FMR accessory (sold separately).
14 Specify slope angle 5°–35° in 5° increments. Not available with EM or FM options.

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