

**MILLENNIUM ENGINEERING, INC.**  
*Land Surveyors and Civil Engineers*

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October 6, 2020

Newbury Planning Department  
Town Hall  
12 Kent Way  
Byfield, MA. 01922

Attn: Martha Taylor  
Town Planner

Re: Site Plan Application for  
3 Newburyport Turnpike

Members of the Board,

On behalf of the Bavaro Family Realty Two, LLC (Applicant and Owner), we are pleased to submit the following information for the Board's review concerning proposed improvements at 3 Newburyport Turnpike located on Route 1 and abutting the City of Newburyport.

This submittal includes 16 copies of the following:


- Site Plan / Special Permit Application
- Site Plan Application Check List
- Administrative Fee (\$700)
- Consultant Review Fee (\$1,000)
- Response Letter to Town Planner Comments
- Certified Abutters List (300 ft)
- Project Narrative
- Traffic Memorandum
- Project Site Plans and Building Elevation Plans
- Stormwater Management Report (2 copies)
- Temporary Solution Statement

The Applicant proposes to construct a three-story, mixed-use building that will include retail and residential use. Related improvements such as parking, utilities, landscaping and stormwater management facilities have been incorporated into the Site Plans included in this submittal.

If you have any questions on this submittal please contact our office at 978-463-8980

Sincerely,

Millennium Engineering, Inc.

  
James Melvin, P.E.  
Project Manager

Cc: J. Bavaro

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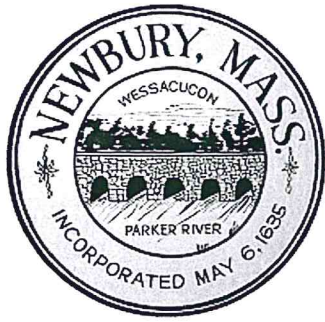
Massachusetts: 62 Elm Street-Salisbury, MA 01952  
New Hampshire: 13 Hampton Road- Exeter, NH 03833

Phone: 978-463-8980 Fax: 978-499-0029  
603-778-0528 603-772-0689

[www.Mei-MA.com](http://www.Mei-MA.com)

[www.Mei-NH.com](http://www.Mei-NH.com)





## Town Of Newbury

Office of  
THE PLANNING BOARD  
12 Kent Way  
Byfield, MA 01922  
978-465-0862, ext. 312

### SITE PLAN REVIEW APPLICATION FORM

1. DATE OF APPLICATION: 7/16/20

2. PROJECT LOCATION:

Street Address: 3 Newburyport Turnpike

Assessor's Map & Lot No.: R-47 / 39

3. ZONING DISTRICT (Check as applicable):

- ☐ Agricultural Residential
- ☐ Parker River Residential
- ☐ Residential – Limited Business
- ☐ Byfield Village Business
- ☐ Commercial Highway
- ☐ Commercial Highway A
- ☐ Light Industrial Byfield
- ☐ Upper Green Business
- ☒ Business and Light Industrial
- ☐ Parker River Marine

ZONING OVERLAY DISTRICT (Check as applicable):

- ☒ Water Supply Protection Overlay District
- ☒ Wireless Communications Services Overlay District
- ☐ Plum Island Overlay District
- ☐ Flood Hazard Overlay District
- ☒ Adult Entertainment Overlay District

4. APPLICANT(S): Name: Bavaro Family Realty Two, LLC  
Address: 18 Graf Road, #3  
Newburyport, MA 01950  
Telephone/Fax Numbers: 781-389-3159

Email Address: joe@brotherselectricalcorp.com

5. OWNER(S): Name: Same as Applicant

Address: \_\_\_\_\_

Telephone/Fax Numbers: \_\_\_\_\_

Email Address: \_\_\_\_\_

6. If applicant is not owner, state interest or status of applicant in land. Submit with application a copy of any option, purchase agreement, power of attorney, copies of all trust instruments etc. which may be applicable including schedules of beneficiaries or owners, or, if a corporation, copies of documents evidencing corporate existence.

7. Applicant's Representative: Millennium Engineering Inc.  
(Attach written authorization.)

8. Is a Special Permit required from the Zoning Board of Appeals, the Planning Board, or the Board of Selectmen? ☒ yes ☐ no

Board of Selectmen - Water Supply Protection Overlay District  
If "yes", specify the type and status of that application.

9. Is a variance required from the Zoning Board of Appeals? ☐ yes ☒ no

If "yes", specify the type and status of that application.

10. Will the project be served by:

Public Water System? ☒ yes ☐ no Newburyport Water System  
Public Sewer System? ☒ yes ☐ no " Sewer System

14. Will the work on the property be subject to the Wetlands Protection Act and/or the Town of Newbury Wetland Protection Laws? ☒ yes ☐ no

If "yes," specify the type and status of the application to the Conservation Commission.

Notice of Intent currently under review.

15. Will the work on the property require:

DEP Approval? ☐ yes ☒ no



EPA Approval? \_\_\_\_ yes ✓ no

If "yes" describe the reason for the approval.

16. Attach a brief description of the existing and proposed uses of the property:
17. Attach a list of abutters, owners of land directly opposite on any public or private way or street, and owners of land within 300 feet of the property line, including bordering towns. This list must be certified by the Town Assessor's office as being accurate.
18. Attach a completed copy of the Site Plan Review checklist.
19. Attach a brief narrative describing the proposed project as outlined in "Site Plan Review Submission Requirements and Procedures".
20. Attach copies of the proposed site plan as described in "Site Plan Review Submission Requirements and Procedures".
21. If required by the Planning Board, attach copies of impact assessments as outlined in "Site Plan Review Submission Requirements and Procedures."
22. If required by the Planning Board, provide documentation of the performance guarantee in accordance with § 97-9.A.(10).

Signature of Applicant/Agent: \_\_\_\_\_

Date: 7/16/20

Date: \_\_\_\_\_

Signature of Owner: \_\_\_\_\_

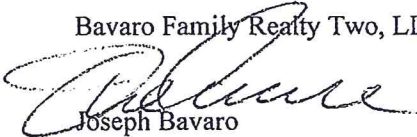
Date: 7/16/20

Date: \_\_\_\_\_

I, Joseph Bavaro, Principal of Bavaro Family Realty Two, LLC, authorize Millennium Engineering, Inc. to act as my representative concerning the proposed project at 3 Newburyport Turnpike. If you have any questions or comments on this matter, please contact me at 781-389-3159

Sincerely,

Bavaro Family Realty Two, LLC



Joseph Bavaro  
Principal

TOWN OF NEWBURY  
PLANNING DEPARTMENT

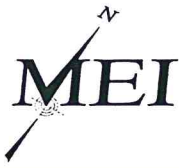
**SITE PLAN REVIEW APPLICATION CHECKLIST**

Applicant Name: Bavaro Family Realty Two, LLC

Site Address: 3 Newburyport Turnpike

|   | Required<br>(yes/ TBD)      | Date completed/<br>submitted | COMMENTS  |
|---|-----------------------------|------------------------------|---|
| Meet with Town Planner,<br>Building Inspector, et al                                  | Yes                         |                              |   |
| Complete and submit<br>application form to Planning<br>Board, along with:             | Yes                         |                              |   |
| a. Brief narrative of<br>proposed project (16<br>copies plus pdf)                     | Yes                         |                              |   |
| b. Project site plan (16<br>copies plus pdf)  | Yes                         |                              |   |
| c. Traffic impact<br>assessment (16 copies<br>plus pdf)                               | TBD by<br>Planning<br>Board |                              |   |
| d. Environmental Impact<br>Assessment (16 copies<br>plus pdf)                         | TBD by<br>Planning<br>Board |                              |   |
| e. Community Impact<br>Assessment/Fiscal<br>Impact Assessment (16<br>copies plus pdf) | TBD by<br>Planning<br>Board |                              |   |
| Submit administrative fee   | Yes                         |                              |   |
| Submit deposit for consultant<br>review   | Yes                         |                              |   |
| File application with Town<br>Clerk   | Yes                         |                              |   |
| Obtain certified abutters list<br>from Assessors Office                               | Yes                         |                              |   |
| Submit legal notice for public<br>hearing to newspaper for<br>publication             | Yes                         |                              | First publication not less<br>than 14 days before date of<br>public hearing |
| Notify abutters of public<br>hearing by certified mail                                | Yes                         |                              |   |
| Performance Guarantee:  | TBD by<br>Planning<br>Board |                              |   |





**MILLENNIUM ENGINEERING, INC.**  
*Land Surveyors and Civil Engineers*

October 7, 2020

Newbury Planning Board  
Town Hall, 12 Kent Way  
Byfield, MA. 01922

Attn: Martha Taylor, Town Planner

Re: Response to Design Review Comments prepared by Town Planner October 3, 2020

Members of Board,

The following provides our response to review comments provided by the Planning Department. We have included the review comment and our response to facilitate the Board's review.

| No.                         |           | Comment / Response  |
|-----------------------------|-----------|---|
| <b>1. General Notes</b>     |           |   |
| a.                          | Comment:  | <i>I see the Owner's name spelled in two different ways in your Site Plan Review cover letter – "Bavaro" and "Barvaro" – please confirm which is correct and revise as needed;</i>          |
|                             | Response: | The correct spelling is "Bavaro" and the cover letter has been revised.   |
| b.                          | Comment:  | <i>Also, I wanted to let you know that Ellen Jameson has retired and Julie O'Brien is now the Select Board's Executive Assistant;</i>   |
|                             | Response: | Future correspondence to the Select Board will include – Julie O'Brien, Executive Assistant.  |
| <b>2. Application Forms</b> |           |   |
|                             | Comment:  | <i>I understand that the NOI has already been submitted to the Conservation Commission so you might want to amend that line item in both the SPR and WSPOD Special Permit Applications;</i> |
|                             | Response: | The line item in the both the SPR and WSPOD Special Permit Applications has been revised accordingly.   |
| <b>3. Project Narrative</b> |           |   |





**MILLENNIUM ENGINEERING, INC.**  
*Land Surveyors and Civil Engineers*

|  |                  |  |
|--|------------------|--|
|  |                  |  |
| a.   | <i>Comment:</i>  | <i>Does the Owner have any certification from DEP stating that the clean-up operations were completed and that a condition of "No Substantial Hazard" exists? If so, please provide;</i>   |
|  | <i>Response:</i> | There is no certification from the DEP stating the clean-up operations were completed. The Applicant is in the process of securing the services of the Licensed Site Professional (LSP) responsible for the site remediation to assist in address the Town's concerns. The LSP has completed a Temporary Solution Statement which has been included with this submittal. |
| b.   | <i>Comment:</i>  | <i>Please note that the portion of the property in Newbury is made up of two separate parcels, R47-0-38 and R47-0-39; that should be clarified in the narrative and, where needed, on the drawings;</i>  |
|  | <i>Response:</i> | The narrative has been revised to correct the number of parcels for the project. Map and lot numbers have been added to the drawings identifying the various lots.   |
| c.   | <i>Comment:</i>  | <i>The correct name of the Newbury Zoning District in which the parcels lie is "Business &amp; Light Industrial," not "Light Industry"; the appropriate Newburyport Zoning District should probably also be mentioned;</i>   |
|  | <i>Response:</i> | Names for the appropriate zoning districts have been revised accordingly.  |
| d.   | <i>Comment:</i>  | <i>At the bottom of p. 4 of 4, the line describing the permit required from the Select Board should be revised to read: "Newbury Select Board – Special Permit (Water Supply Protection Overlay District)."</i>  |
|  | <i>Response:</i> | The line describing the permit required from the Select Board has been revised accordingly.  |
| <b>4. Site Plans / Drawing Requirements – see Site Plan Review Submission &amp; Procedures, §4)b):</b> |                  |  |
| a.   | <i>Comment:</i>  | <i>Locus Plan should be at a scale of 1" = 2000' or other reasonable scale, not N.T.S.</i>   |
|  | <i>Response:</i> | Locus Plan has been revised to a 1" = 2000' scale.   |
| b.   | <i>Comment:</i>  | <i>Are there any easements, rights-of-way, covenants, or other agreements affecting the use of the site? If so, they should be noted;</i>  |



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*Land Surveyors and Civil Engineers*

|   |           |   |
|---|-----------|---|
|   | Response: | Our review indicates there are no easements, rights-of-way, covenants, or other agreements encumbering the project properties.  |
| c.  | Comment:  | <i>Width of Newburyport Turnpike should be shown;</i>   |
|   | Response: | The width of the Newburyport Turnpike has been added to the drawings.   |
| d.  | Comment:  | <i>Are there trees over 8" in caliper in the area of trees to be cleared? If so, they should be shown or else, if too many, a waiver of this requirement should be requested;</i> |
|   | Response: | There are no trees over 8" in diameter within the area of disturbance.  |
| e.  | Comment:  | <i>For the new building, all required setbacks, exterior dimensions, and building height should be shown;</i>   |
|   | Response: | We believe the drawings show all required setbacks, exterior dimensions and building height.  |
| f.  | Comment:  | <i>Width of curb cuts/driveway entrance and exit should be shown;</i>   |
|   | Response: | The width of curb cuts, driveway entrance and exit have been added to the drawings.   |
| g.  | Comment:  | <i>Lighting information needs to be supplemented and clarified – see notes below on specific plan sheets;</i>   |
|   | Response: | See response to comments bi. and bii. below.  |
| h.  | Comment:  | <i>Information on any proposed signage needs to be provided;</i>  |
|   | Response: | The location of the development sign has been added to the drawings. The Applicant and architect are continuing to develop the sign size and graphics.                            |
| i.  | Comment:  | <i>Existing structures on adjacent properties within 50 feet of the property line need to be shown – is the Subway/Domino's building within 50'?</i>                              |
|   | Response: | The Subway / Domino's building is greater than 50 ft from the property line. No other buildings are located within 50' of the project property lines.                             |
| <b>5. Architectural Drawing Requirements – see §4)c):</b> |           |   |





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*Land Surveyors and Civil Engineers*

|    |                  |  |
|----|------------------|--|
| a. | <i>Comment:</i>  | <i>Exterior materials need to be noted;</i>  |
|    | <i>Response:</i> | The Architectural drawings have been revised to include the exterior materials.  |
| b. | <i>Comment:</i>  | <i>Type, pitch, and material of roofs need to be noted;</i>  |
|    | <i>Response:</i> | The Architectural drawings have been revised to include type, pitch and material of roof.  |
| c. | <i>Comment:</i>  | <i>Building mounted signage needs to be shown, including size, location, colors, and wording;</i>  |
|    | <i>Response:</i> | The Architectural Plans have been revised to show the location and size of the mounted signage. The Applicant and architect continue to develop text / graphics for the signage. |
| d. | <i>Comment:</i>  | <i>Relationship of the building with respect to massing, scale, and height to other exiting structures in the immediate vicinity needs to be shown;</i>                          |
|    | <i>Response:</i> | The architectural plans have been revised to show the scale of the building in relation to nearby buildings.   |
| e. | <i>Comment:</i>  | <i>Cross sections of the site and building need to be shown;</i>   |
|    | <i>Response:</i> | A cross section of the building and related site grades has been included in the drawings.   |
| f. | <i>Comment:</i>  | <i>Catalogue cuts of proposed exterior light fixtures need to be provided;</i>   |
|    | <i>Response:</i> | Catalogue cuts of proposed exterior lighting has been added to the drawings.   |

**6. Drawing Specific Comments**

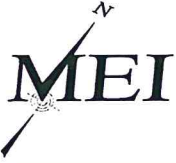
|         |                                  |   |
|---------|----------------------------------|---|
|         | <i>Sheet 1 of 7, Cover Sheet</i> |   |
| a.i.    | <i>Comment:</i>                  | <i>Street address and Map and Lot numbers should be shown on the Plan on the Cover Sheet;</i>   |
|         | <i>Response:</i>                 | Street address, map and lot numbers have been added to the drawings and Cover Sheet.  |
| a.ii.1. | <i>Comment:</i>                  | <i>The Map and Lot is shown incorrectly – it should be Map R47, Lots 38 and 39 for the portion in Newbury; the Parcel ID for the portion is Newburyport should also be shown;</i> |



**MILLENNIUM ENGINEERING, INC.**  
*Land Surveyors and Civil Engineers*

|         |  |  |
|---------|--|--|
|         | Response:                              | The map and lot have been revised to the correct numbers. The parcel ID has also been added to the drawings.   |
| a.ii.2. | <i>Comment:</i>                        | <i>The Table should be broken down into the portion of the property in Newbury and the portion of the property in Newburyport with respect to both existing conditions (frontage and area – e.g. how much of the frontage and area are in Newbury and how much are in Newburyport) and the Zoning requirements for each municipality;</i>  |
|         | Response:                              | Separate Dimensional Tables have been added to the drawings.   |
| a.ii.3  | <i>Comment:</i>                        | <i>The proper name of the Overlay District in Newbury is the “Water Supply Protection Overlay District”;</i>   |
|         | Response:                              | The name for the Overlay District has been revised accordingly.  |
| a.ii.4  | <i>Comment:</i>                        | <i>Please note – the required 50’ front yard setback is from the front (street side) property line, not from the paved street itself – some discussion may be needed with the Building Commissioner to determine whether a variance will be required for the front yard setback as shown;</i>  |
|         | Response:                              | The front yard setback shown is from the property line to the building.  |
| a.ii.5  | <i>Comment:</i>                        | <i>Proposed building height needs to be provided;</i>  |
|         | Response:                              | Proposed building heights have been added to the architectural drawings.   |
|         | <i>Sheet E-1, Site Lighting Layout</i> |  |
| b.i.    | <i>Comment:</i>                        | <i>This plan is very confusing – the lighting symbols on the schedule do not appear to correspond to symbols on the plan itself, and it is hard to see the light fixture locations among the photometric symbols. It also appears that some fixtures shown are not actually related to the project. I recommend providing at least two plans, one showing light fixture types and locations, coordinated with the schedule, and one with the photometrics;</i> |
|         | Response:                              | The lighting symbols have been revised to match the legend. The symbols and labels have been scaled larger to help identify them on the plan.  |
| b.ii.   | <i>Comment:</i>                        | <i>Catalogue cuts of all the exterior fixtures – building-mounted and pole-mounted – are needed;</i>   |





**MILLENNIUM ENGINEERING, INC.**  
*Land Surveyors and Civil Engineers*

|  |           |  |
|--|-----------|--|
|  |           |  |
|  | Response: | Catalogue cuts for the lighting fixtures have been added to the submittal package. |

We trust this response letter provides the necessary information for the Board's consideration of the request for completeness. If you have any questions or comments, please feel free to contact our office at your convenience.

Sincerely,

Millennium Engineering, Inc.

  
James Melvin, P.E.  
Project Manager

w/ Attachments

Cc: J. Bavaro  
M. Griffin





## Town Of Newbury

Office of  
The Board of Assessors  
12 Kent Way Suite 101  
Newbury, MA. 01951-4799  
(978) 465-0862 x308  
Fax: (978) 465-3064

Frank N. Kelley III, Chairman, Board of Assessors  
Sanford Wechsler, Assessor  
Linda McCamic, Assessor

Nate Cramer, Principal Assessor  
Stephanie Sergi, Assessor's Clerk

Memo

To Susan Roy, Millennium Engineering

Date: July 7, 2020

RE 3 Newburyport Turnpike

The following is a list of abutters within 300' OF R47-0-39. These listed owners are to the best of our knowledge the owners of record as of July 7, 2020 and are the only abutters listed in Newbury.

Attached:

1. This cover letter
2. Original request
3. Mailing Labels (2 sets)
4. Mailing List (non-label)
5. GIS Map
6. Abutters List Other Towns (if applicable)

Sincerely,

Stephanie Sergi  
Assessor's Clerk  
Town of Newbury

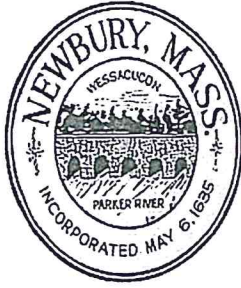
CERTIFIED ABUTTERS LIST

TOWN OF NEWBURY  
BOARD OF ASSESSORS

ADDRESS 3 Newburyport TP

PAGE 1 OF 5

7/7/20 SS



## TOWN OF NEWBURY

### BOARD OF ASSESSORS

12 Kent Way, Suite 101, Byfield, MA 01922

978-465-0862 x308

978-572-1228 fax

[www.townofnewbury.org](http://www.townofnewbury.org)

RECEIVED

JUL 07 2020

### REQUEST FOR CERTIFIED ABUTTERS LIST

TOWN OF NEWBURY  
BOARD OF ASSESSORS

PROPERTY LOCATION: 3 NEWBURYPORT TURNPIKE

ASSESSORS MAP/LOT#: R47-39 (BAVARO FAMILY REALTY TWO LLC)  
(If requesting more than one list, please fill out a separate list request for each)

### CHECK BOX FOR TYPE OF LIST REQUESTED:

- ☐ 1. CONSERVATION COMMISSION  
within 100 ft.
- ☐ CONSERVATION COMMISSION  
Lot area greater than 50 acres
- ☐ CONSERVATION COMMISSION  
Linear Project greater than 1,000 ft
- ☐ 2. ZONING BOARD OF APPEALS  
within 300 ft.
- ☐ 3. ZONING BOARD OF APPEALS/Wireless Communication  
within 900 ft.
- ☒ 4. PLANNING BOARD - Site Plan  
within 300 ft.

### CERTIFIED ABUTTERS LIST

TOWN OF NEWBURY  
BOARD OF ASSESSORS

ADDRESS 3 Newburyport TP

PAGE 2 OF 5  
7/7/20 SS

REQUESTED BY: S. Roy

PHONE NUMBER: MILLENNIUM ENG 978-463-8980

DATE REQUESTED: 7-7-2020

DATE PAID: 7/8/2020 Sue Roy CK 7489

ASSESSOR SIGNATURE: \_\_\_\_\_

DATE: 7/8/2020

**NOTE:** There is a \$20.00 charge per each request. Checks can be made payable to the Town of Newbury.

R47-0-38 R47-0-39

R47-0-27  
COMMONWEALTH OF MASS  
DIVISION OF FISH & GAME  
*251 Causeway # 406*  
*Boston MA 02114*

R47-0-36  
SHEPARD TRUSTEE DAVID L  
SHEPARD TRUSTEE CAROLYN M  
14 PINE ST  
NEWBURYPORT, MA 01950

R47-0-39  
BAVARO FAMILY REALTY TWO LLC  
18 GRAF ROAD U-31  
NEWBURYPORT, MA 01950

U07-0-22  
KOZAZCKI MATTHEW J  
108 HIGH RD  
NEWBURY, MA 01951

R47-0-28  
BARBIRIS TE ANTHONY  
4/6 NEWBURYPT TP REALTY TR  
P.O. BOX 2162  
SO HAMILTON, MA 01982

R47-0-37  
NEWBURY TOWN OF  
12 KENT WAY  
BYFIELD, MA 01922

R47-0-40  
IRVING B A JR + GRAF D A  
TR VIKING REALTY TRUST  
38 ROLFES LN  
NEWBURY, MA 01951

R47-0-29  
LUNT RICHARD A  
MACCARTHY JANIS  
7 PINE ST  
AMESBURY, MA 01913

R47-0-38  
BAVARO FAMILY REALTY TWO LLC

R47-0-41  
COMMONWEALTH OF MASS  
MASS BAY TRANS AUTHORITY  
10 PARK PLAZA  
BOSTON, MA 02116

CERTIFIED ABUTTERS LIST

TOWN OF NEWBURY  
BOARD OF ASSESSORS

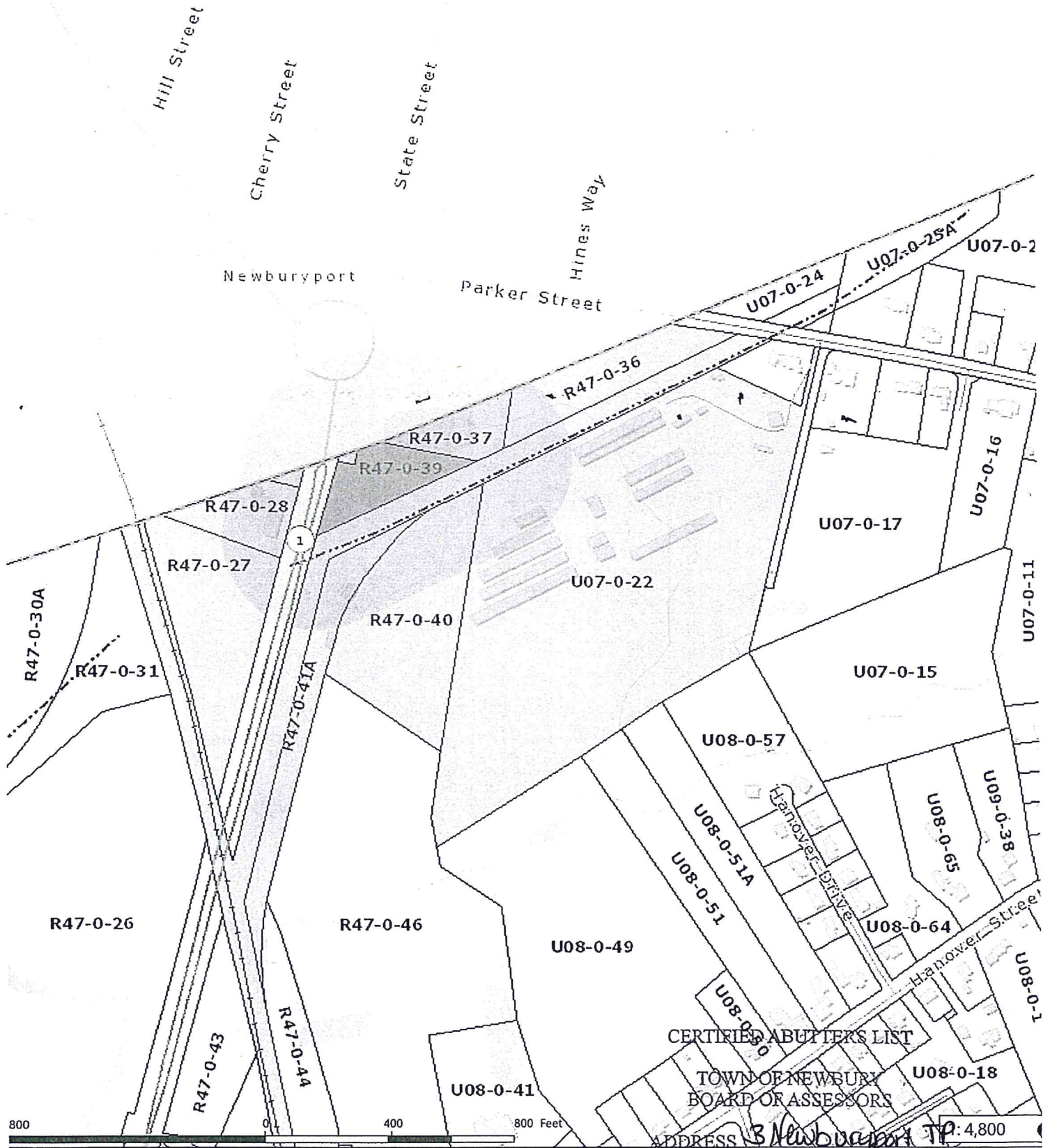
ADDRESS 3 Newburyport TP

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7/7/20 SS



# Town of Newbury

07/07/2021



Data Sources: Produced by Merrimack Valley Planning Commission (MVPC) using data provided by the Town of Newbury & MassGIS/MassGIS. MVPC AND THE TOWN OF NEWBURY MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE TOWN OF NEWBURY AND MVPC DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.



☐ Municipal Boundary  
☐ Building  
☐ Roads  
☐ Trails

Legend  
☐ Interstate  
☐ Major Road  
☐ Hydrographic Features  
☐ Local Road  
☐ Streams  
☐ Parcels

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## Town Of Newbury

Office of  
The Board of Assessors  
12 Kent Way Suite 101  
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Fax: (978) 465-3064

Frank "Budd" Kelley, Chairman, Board of Assessors  
Sanford "Sandy" Wechsler, Assessor  
Linda McCamic, Assessor

Nate Cramer, Principal Assessor  
Stephanie Sergi, Clerk

IN ADDITION TO 300' ABUTTERS PLEASE MAIL TO THE FOLLOWING

Georgetown Planning Board  
1 Library Street  
Georgetown, MA 01833

Groveland Planning Board  
183 Main Street  
Groveland, MA 01834

Newburyport Planning Board  
60 Pleasant Street  
Newburyport, MA 01950

Rowley Planning Board  
39 Central Street  
PO Box 714  
Rowley, MA 01969

West Newbury Planning Board  
381 Main Street  
West Newbury, MA 01985

### CERTIFIED ABUTTERS LIST

TOWN OF NEWBURY  
BOARD OF ASSESSORS

ADDRESS 3 Newburyport TP

PAGE 5 OF 5

7/7/20 SS

If the list is for the Newbury Zoning Board of Appeals include:

Newbury Planning Board  
12 Kent Way Suite 101  
Newbury, MA 01951





PROJECT NARRATIVE  
for  
SITE PLAN APPLICATION  
3 NEWBURYPORT TURNPIKE  
(Map R-47 Lot 39)  
NEWBURY, MA

**August 27, 2020**  
**Revised: October 6, 2020**

**GENERAL**

The Applicant and Owner, Bavaro Family Realty Two LLC, proposes to construct a 15,000 sf., 3-story mixed-use building and associated site improvements at 3 Newburyport Turnpike (R47-0-38 and R47-0-39). The building will include 3,000 sf. of retail space located on the first floor with 12,000 sf. of residential space on the 2<sup>nd</sup> and 3<sup>rd</sup> floor.

Currently, the lot is unoccupied with deteriorated asphalt pavement present throughout the uplands. Previously, the lot was occupied by Circle Finishing Inc., a metal plating facility. A fire occurred on the lot in 1993, destroying the building. From 2002- 2004, all damaged building materials and underground storage tanks were removed from the lot. Hazardous materials cleanup operations were conducted on the site and a condition of "No Substantial hazard" exists.

The property is approximately 1.65 acres in size with 0.15 acres located in Newburyport and the remaining 1.5 acres located on two parcels in Newbury (R47-0-38 and R47-0-39). Submittals to both municipalities are anticipated to address the proposed improvements. The property is in the Newbury Business and Light Industrial District (BLI) and the Water Supply Protection Overlay District. In addition, the property falls within the Adult Entertainment and Wireless Communications Service Overlay Districts for Newbury. The Newburyport parcel is located in the Business District.

In general, the property is triangular in shape and fronts the Newburyport Turnpike (Route 1). Its southern property line borders a MBTA right-of-way while its northern property line abuts the Domino's / Subway facility in Newburyport, a Town of Newbury parcel and the Town line. A large wetland resource area with surface water is present in the eastern portion of the property with upland dominating the western portion of the property. Current grades for the upland range from elevation 17 to elevation 20, resulting in a relatively flat site. No buildings are present on the property, although impervious surfaces are present from previous development on the site.

The property is not located within the 100-yr flood plain. Proposed improvements fall outside the 200- ft Riverfront zone.

## **PROPOSED IMPROVEMENTS**

### Building

The Applicant proposes to construct a three-story building with retail use (3,000 sf) on the first floor and twelve residential units (12,000 sf) located on the second and third floors. The second and third floors will be cantilevered over six parking spaces resulting in podium parking for those six spaces. Reference is made to the building elevations included in the Site Plans.

### Site Grading

The project has been designed to minimize excavation of existing soils. In general, the site will be raised 1-2 feet to support the infrastructure and improve runoff of stormwater during weather events.

All proposed improvements will occur on the uplands bordering the Newburyport Turnpike. No direct impacts to wetland resource areas are proposed.

### Parking

A total of 34 parking spaces are provided including nine parking spaces for retail use ( 3 per 1000 sf), twenty-four parking spaces for the twelve residential units (2 per dwelling) and one additional parking space.

### Access Vehicular and Pedestrian

Access to the property will be via a one-way driveway entrance off the northbound Newbury Turnpike. A second driveway opening, dedicated to exit only, is provided in the northern portion of the property that also connects to the northbound Newburyport Turnpike. Millennium Engineering, Inc. has held preliminary discussions and preliminary plan review with the Massachusetts Department of Transportation - District 4 Office. The Department has indicated their preliminary support for the entrance / exit driveway layout included in this submittal.

Pedestrian accommodations are included within the proposed development to address safety for retail customers and dwelling occupants. A 5-ft sidewalk is proposed along the face of the building that will include handicap ramps to support access to and from the building. Given the absence of public walkways along the property frontage and abutting properties, no connections to public facilities are available.

### Traffic

Vanasse & Associates, Inc. (VAI) conducted a Traffic Assessment for the proposed mixed-use development. This assessment identifies existing and propose conditions and reviews access requirements, traffic volumes, circulation and safety considerations. Since the project abuts a state highway, a Massachusetts Department of Transportation (Mass DOT) curb-cut permit application will be required. The Traffic Assessment is included in this submittal.

### Utilities

Discussions with the Newburyport Department of Public Services (NDPS) are ongoing to determine the presence of sewer and water services along the property frontage. Previous plan information for the property suggests the former occupant, Circle Finishing Inc., accessed the water and sewer facilities in Newburyport. Further analysis of the record plan information, field investigations and coordination with Newburyport DPS Officials will be required to finalize water and sewer service connections.

The development will require two water services to address domestic use and fire protection. A 2-inch water service will supply the retail and residential units. A second water service will be required to support a fire suppression sprinkler system.

The Applicant is investigating natural gas service for the development. Currently, the discussions are on-going and if provided, the gas service will be incorporated into the Site Plans.

Electrical and communication services for the development will be required with final layout size and locations determined by the private companies.

### Stormwater Management

In order to address the increase in impervious surface associated with the proposed development, a stormwater management system has been designed in conformance with the 2008 Massachusetts Stormwater Management Standards. The system includes sediment forebays, erosion controls and an infiltration basin. A Stormwater Management Report is included in this submittal detailing pre- and post-development conditions, system design and sizing, as well as, an Operation and Maintenance Manual for the system components.

### Landscaping



A landscaping plan has been prepared by KD Turner Design to identify vegetated surfaces and plantings. The landscaping focuses on screening from the Newburyport Turnpike and providing a visually pleasing experience for customers and residents.

### Environment

A Method 3 Risk Characterization of harm to human health, public welfare, safety and the environment was conducted for the hazardous release (RTN 3-0392 and 3-10321) and a report prepared for the site in accordance with the requirements of 310CMR 40.000 Subpart I of the Massachusetts Contingency Plan. The results of the evaluation of risk of harm to safety and public welfare indicated that no unsafe or nuisance conditions exist at the Site. A condition of "No Significant Risk" of harm to safety and public welfare has also been demonstrated for the Site.

Proposed improvements to the site will address current untreated stormwater runoff from the site. As part of the Site Plan design review process, the Town will have the opportunity to review proposed stormwater management improvements addressing runoff conditions.

### Master Plan

The project appears to support several goals of the 2006 Newbury Master Plan. Specifically, the project will preserve and protect the Town's water supply by improving stormwater runoff conditions. Currently, untreated runoff flows from the property upland into abutting wetlands. Proposed stormwater facilities will provide treatment and infiltration of runoff thereby improving current conditions.

The Master Plan also supports mixed use development with a residential component along portions of the Route 1 corridor as shown on the Master Plan Map titled "Economic Development Recommendations – Town of Newbury.

## **OTHER PERMITS**

The project property is in both Newburyport and Newbury, with much of the site located in Newbury. Expected permitting for the development includes:

- Newbury Select Board – Special Permit (Water Supply Protection Overlay District)
- Newbury Planning Board – Site Plan
- Newbury Conservation Commission / MA. DEP – Notice of Intent
- Massachusetts Department of Transportation, District 4 – Highway Access Permit

It is also expected filings with the Newburyport Conservation Commission, Planning Board and the Department of Public Services (utility connections) will be required.

END



## MEMORANDUM

**TO:** Mr. Eric Botterman  
Millennium Engineering, Inc.  
62 Elm Street  
Salisbury, MA 01952

**FROM:** Mr. F. Giles Ham, P.E.  
Vanasse & Associates, Inc.  
35 New England Business Center Drive  
Suite 140  
Andover, MA 01810-1066  
(978) 474-8800

**DATE:** June 16, 2020

**RE:** 8653

**SUBJECT:** Traffic Assessment  
Mixed-Use Development  
Newbury, Massachusetts

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Vanasse & Associates, Inc. (VAI) has conducted a Traffic Assessment for the proposed mixed-use development located at 3 Newburyport Turnpike in Newbury, Massachusetts. This assessment identifies existing conditions and reviews access requirements, circulation, and safety considerations. Since the project site abuts a state highway, a Massachusetts Department of Transportation (MassDOT) curbcut permit application will be required.

### **PROJECT DESCRIPTION**

The proposed project will consist of a three-story, 15,000 sf building with approximately 34 parking spaces. The building will accommodate 3,000 sf of retail space and 12 residential units. Access and egress will be provided via separated entering and exiting curb-cuts onto Route 1 with right turns only.

### **EXISTING CONDITIONS**

A comprehensive field inventory of existing conditions was conducted in June 2020. The field investigation consisted of an inventory of existing roadway geometrics, operating characteristics, as well as safety data.

#### **Roadways**

##### **Newburyport Turnpike ( Route 1)**

Within the study area, Route 1 is a four-lane roadway under state jurisdiction that traverses the study area in a general north-south direction. Route 1 provides two 12-foot travel lane per direction separated by a jersey barrier median. The posted speed limit along Route 1 is 25 miles per hour (mph) on the approach to the Newburyport traffic circle.



## **SPOT SPEED MEASUREMENTS**

Vehicle travel speed measurements were performed on Route 1. Table 1 summarizes the vehicle travel speed measurements.

**Table 1**  
**VEHICLE TRAVEL SPEED MEASUREMENTS**

|   | Route 1<br>Northbound |
|---|-----------------------|
| Mean Travel Speed (mph)                 | 32                    |
| 85 <sup>th</sup> Percentile Speed (mph) | 36                    |
| Posted Speed Limit (mph)                | 25                    |

mph = miles per hour.

As can be seen in Table 1, the mean (average) vehicle travel speed along Route 1 northbound direction in the vicinity of the project site was found to be approximately 32 mph. The measured 85<sup>th</sup> percentile vehicle travel speed, or the speed at which 85 percent of the observed vehicles traveled at or below, was found to be approximately 36 mph, or 11 mph above the posted speed limit of 25 mph. The 85<sup>th</sup> percentile speed is used as the basis of engineering design and in the evaluation of sight distances, and is often used in establishing posted speed limits.

### **Sight Distance Evaluation**

Sight distance measurements were performed at the proposed driveway with the Route 1 in accordance with MassDOT and American Association of State Highway and Transportation Officials (AASHTO)<sup>1</sup> standards. In brief, stopping sight distance (SSD) is the distance required by a vehicle traveling at the design speed of a roadway, on wet pavement, to stop prior to striking an object in its travel path. In accordance with AASHTO and MassDOT standards, at a minimum, sufficient stopping sight distances must be provided at an intersection. Table 2 presents the measured sight distances at the proposed site driveways intersecting with the Route 1.

<sup>1</sup> *A Policy on Geometric Design of Highway and Streets*, 6<sup>th</sup> Edition; American Association of State Highway and Transportation Officials (AASHTO); 2011.



**Table 2**  
**SIGHT DISTANCE MEASUREMENTS**

| Stopping Sight Distance Measurement  | Required Minimum<br>(Feet) <sup>a</sup> |        | Measured<br>(Feet) |
|--|---|--------|--------------------|
|  | 35 mph                                  | 40 mph |                    |
| <i>Newburyport Turnpike Site Driveway:</i><br>Looking to the south from the driveway | 250                                     | 305    | 650                |

<sup>a</sup>Recommended minimum values obtained from *A Policy on Geometric Design of Highways and Streets*, Fifth Edition; American Association of State Highway and Transportation Officials (AASHTO); 2011.

As shown, the proposed driveway meets the required sight distance for over 40 mph.

### **Project-Generated Traffic**

In order to develop the anticipated traffic characteristics of the project, trip-generation statistics published by the Institute of Transportation Engineers (ITE)<sup>2</sup> were reviewed. The ITE provides trip-generation information for various types of land uses, developed as a result of scientific studies that have been conducted. ITE Land Use Code (LUC) 221 *Multi-family Housing* and LUC 820 *Shopping Center* were utilized. Table 3 summarizes the expected traffic generation.

**Table 3**  
**TRIP-GENERATION SUMMARY**

| Time Period                       | 12 Residential<br>Units | 3,000 sf<br>Retail | Total    |
|-----------------------------------|-------------------------|--------------------|----------|
| Weekday Daily                     | 66                      | 114                | 180      |
| <i>Weekday Morning Peak Hour:</i> |                         |                    |          |
| Entering                          | 1                       | 2                  | 3        |
| <u>Exiting</u>                    | <u>3</u>                | <u>1</u>           | <u>4</u> |
| Total                             | 4                       | 3                  | 7        |
| <i>Weekday Evening Peak Hour:</i> |                         |                    |          |
| Entering                          | 3                       | 5                  | 8        |
| <u>Exiting</u>                    | <u>2</u>                | <u>6</u>           | <u>8</u> |
| Total                             | 5                       | 11                 | 16       |

<sup>2</sup>*Trip Generation*, Tenth Edition; Institute of Transportation Engineers; Washington, DC; 2017.



Table 3 summarizes the vehicle trip-generation estimates. As shown in Table 3, the site will generate 180 daily trips (90 in/90 out), 7 vehicle trips (3 in/4 out) during the morning peak hour, and 16 vehicle trips (8 in/8 out) during the weekday evening peak hour.

## **RECOMMENDATIONS**

Based upon our review of existing conditions, VAI has made a number of recommendations in order to provide safe access and egress. These improvements are outlined below.

### **Project Access**

As previously stated, access and egress to the site will be provided via separate entering and exiting driveways. The entering driveway should have DO NOT ENTER signs facing into the site and the exiting driveway should be placed under STOP-sign control with a painted STOP bar. A ONE WAY sign should be placed in the median facing the exiting driveway. In addition, the following is recommended:

- All signs and pavement markings to be installed within the project site shall conform to the applicable standards of the Manual on Uniform Traffic Devices (MUTCD).<sup>3</sup>
- Signs and landscaping adjacent to the project site driveway intersections will be designed and maintained so as not to restrict lines of sight.
- A MassDOT curbcut application will be required for the new driveway.

The above recommendations will insure safe access and egress to the project as planned.

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<sup>3</sup>*Manual on Uniform Traffic Control Devices (MUTCD)*; Federal Highway Administration; Washington, DC; 2009.





## APPENDIX

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VEHICLE SPEEDS  
TRIP GENERATION

## VEHICLE SPEEDS

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**Job** Newbury, MA  
**Location** At Site  
**Calculated By:** S.R.F.  
**Checked By:** \_\_\_\_\_

**Job #** 8653  
**Date** 6/15/2020

**Street:** Newburyport Turnpike  
**Direction:** Northbound

**Speed Limit:** 25  
**Time of Day** 11:30 a.m.  
**Observations** 50

| Speed | # of Observation | CUM. # Of OBS | % OF TOTAL OBS | CUM % |
|-------|------------------|---------------|----------------|-------|
| 55    |                  |               |                |       |
| 54    |                  |               |                |       |
| 53    |                  |               |                |       |
| 52    |                  |               |                |       |
| 51    |                  |               |                |       |
| 50    |                  |               |                |       |
| 49    |                  |               |                |       |
| 48    |                  |               |                |       |
| 47    |                  |               |                |       |
| 46    |                  |               |                |       |
| 45    |                  |               |                |       |
| 44    |                  |               |                |       |
| 43    |                  |               |                |       |
| 42    |                  |               |                |       |
| 41    |                  |               |                |       |
| 40    | 1                | 1             | 2              | 100   |
| 39    | 0                | 1             | 0              | 98    |
| 38    | 0                | 1             | 0              | 98    |
| 37    | 5                | 6             | 10             | 98    |
| 36    | 5                | 11            | 10             | 88    |
| 35    | 2                | 13            | 4              | 78    |
| 34    | 6                | 19            | 12             | 74    |
| 33    | 3                | 22            | 6              | 62    |
| 32    | 5                | 27            | 10             | 56    |
| 31    | 4                | 31            | 8              | 46    |
| 30    | 3                | 34            | 6              | 38    |
| 29    | 4                | 38            | 8              | 32    |
| 28    | 4                | 42            | 8              | 24    |
| 27    | 6                | 48            | 12             | 16    |
| 26    | 1                | 49            | 2              | 4     |
| 25    | 1                | 50            | 2              | 2     |
| 24    |                  |               |                |       |
| 23    |                  |               |                |       |
| 22    |                  |               |                |       |
| 21    |                  |               |                |       |
| 20    |                  |               |                |       |

**Average:** 31.86  
**Comments:** 85% = 35.7 m.p.h.



## TRIP GENERATION

**Institute of Transportation Engineers (ITE)**  
**Trip Generation, 10th Edition**  
**Land Use Code (LUC) 221 - Multifamily Housing (Mid-Rise)**

Average Vehicle Trips Ends vs: Dwelling Units  
Independent Variable (X): 12

**AVERAGE WEEKDAY DAILY**

$$T = 5.44 * (X)$$

$$T = 5.44 * 12$$

$$T = 65.28$$

$$T = 66.00$$

$$T = 66 \text{ vehicle trips}$$

with 50% ( 33 vpd) entering and 50% ( 33 vpd) exiting.

**WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC**

$$T = 0.36 * (X)$$

$$T = 0.36 * 12$$

$$T = 4.32$$

$$T = 4 \text{ vehicle trips}$$

with 26% ( 1 vph) entering and 74% ( 3 vph) exiting.

**WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC**

$$T = 0.44 * (X)$$

$$T = 0.44 * 12$$

$$T = 5.28$$

$$T = 5.00$$

$$T = 5 \text{ vehicle trips}$$

with 61% ( 3 vph) entering and 39% ( 2 vph) exiting.

**AVERAGE SATURDAY**

$$T = 4.91 * (X)$$

$$T = 4.91 * 12$$

$$T = 58.92$$

$$T = 58.00$$

$$T = 58 \text{ vehicle trips}$$

with 50% ( 29 vpd) entering and 50% ( 29 vpd) exiting.

**SATURDAY MIDDAY PEAK HOUR OF GENERATOR**

$$T = 0.44 * (X)$$

$$T = 0.44 * 12$$

$$T = 5.28$$

$$T = 5 \text{ vehicle trips}$$

with 49% ( 2 vph) entering and 51% ( 3 vph) exiting.

**Institute of Transportation Engineers (ITE)**  
**Trip Generation, 10th Edition**  
**Land Use Code (LUC) 820 - Shopping Center**

Average Vehicle Trips Ends vs: 1,000 Square Feet Gross Leasable Area  
Independent Variable (X): 3.000

**AVERAGE WEEKDAY DAILY**

$$T = 37.75 * X$$

$$T = 37.75 * 3.000$$

$$T = 113.25$$

$$T = 114 \text{ vehicle trips}$$

with 50% ( 57 vpd) entering and 50% ( 57 vpd) exiting.

**WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC**

$$T = 0.94 * (X)$$

$$T = 0.94 * 3.000$$

$$T = 2.82$$

$$T = 3 \text{ vehicle trips}$$

with 62% ( 2 vph) entering and 38% ( 1 vph) exiting.

**WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC**

$$T = 3.81 * X$$

$$T = 3.81 * 3.000$$

$$T = 11.43$$

$$T = 11 \text{ vehicle trips}$$

with 48% ( 5 vph) entering and 52% ( 6 vph) exiting.

**SATURDAY DAILY**

$$T = 46.12 * X$$

$$T = 46.12 * 3.000$$

$$T = 138.36$$

$$T = 138 \text{ vehicle trips}$$

with 50% ( 69 vph) entering and 50% ( 69 vph) exiting.

**SATURDAY MIDDAY PEAK HOUR OF GENERATOR**

$$T = 4.50 * X$$

$$T = 4.50 * 3.000$$

$$T = 13.50$$

$$T = 14 \text{ vehicle trips}$$

with 52% ( 7 vph) entering and 48% ( 7 vph) exiting.





# D-Series Size 0 LED Area Luminaire



|                |
|----------------|
| Catalog Number |
| Notes          |
| Type           |

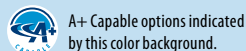
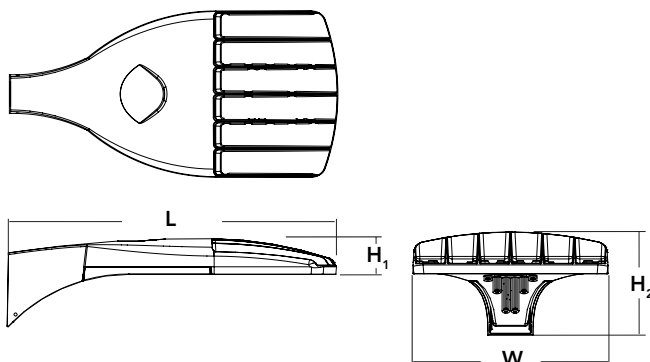
Hit the Tab key or mouse over the page to see all interactive elements.

## Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

## Specifications

|                       |   |
|-----------------------|---|
| EPA:                  | 0.95 ft <sup>2</sup><br>(.09 m <sup>2</sup> ) |
| Length:               | 26"<br>(66.0 cm)                              |
| Width:                | 13"<br>(33.0 cm)                              |
| Height <sub>1</sub> : | 3"<br>(7.62 cm)                               |
| Height <sub>2</sub> : | 7"<br>(17.8 cm)                               |
| Weight (max):         | 16 lbs<br>(7.25 kg)                           |



## Ordering Information

**EXAMPLE:** DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

| DSX0 LED |  |  |   |  |   |
|----------|--|--|---|--|---|
| Series   | LEDs   | Color temperature                      | Distribution  | Voltage  | Mounting  |
| DSX0 LED | <b>Forward optics</b><br>P1 P4 P7<br>P2 P5<br>P3 P6<br><b>Rotated optics</b><br>P10 <sup>1</sup> P12 <sup>1</sup><br>P11 <sup>1</sup> P13 <sup>1</sup> | 30K 3000 K<br>40K 4000 K<br>50K 5000 K | T1S Type I short (Automotive)<br>T2S Type II short<br>T2M Type II medium<br>T3S Type III short<br>T3M Type III medium<br>T4M Type IV medium<br>TFTM Forward throw medium<br>T5VS Type V very short <sup>2</sup><br>T5S Type V short <sup>2</sup><br>T5M Type V medium <sup>2</sup><br>T5W Type V wide <sup>2</sup><br>BLC Backlight control <sup>3</sup><br>LCCO Left corner cutoff <sup>3</sup><br>RCCO Right corner cutoff <sup>3</sup> | MVOLT <sup>4,5</sup><br>120 <sup>5</sup><br>208 <sup>5</sup><br>240 <sup>5</sup><br>277 <sup>5</sup><br>347 <sup>5,6</sup><br>480 <sup>5,6</sup> | <b>Shipped included</b><br>SPA Square pole mounting<br>RPA Round pole mounting<br>WBA Wall bracket <sup>2</sup><br>SPUMBA Square pole universal mounting adaptor <sup>7</sup><br>RPUMBA Round pole universal mounting adaptor <sup>7</sup><br><b>Shipped separately</b><br>KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>8</sup> |

| Control options          |  | Other options |   | Finish <i>(required)</i>  |   |                                  |
|--------------------------|--|---------------|---|---------------------------|---|----------------------------------|
| <b>Shipped installed</b> |  | PIR           | High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 5fc <sup>15,16</sup>  | <b>Shipped installed</b>  | DDBXD Dark bronze                         |                                  |
| NLTAIR2                  | nLight AIR generation 2 enabled <sup>9,10</sup>  | PIRH          | High/low, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 5fc <sup>15,16</sup> | HS                        | House-side shield <sup>18</sup>           | DBLXD Black                      |
| PIRHN                    | Network, high/low motion/ambient sensor <sup>11</sup>  | PIR1FC3V      | High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 1fc <sup>15,16</sup>  | SF                        | Single fuse (120, 277, 347V) <sup>5</sup> | DNAXD Natural aluminum           |
| PER                      | NEMA twist-lock receptacle only (control ordered separate) <sup>12</sup>                               | PIRH1FC3V     | High/low, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 1fc <sup>15,16</sup> | DF                        | Double fuse (208, 240, 480V) <sup>5</sup> | DWHXD White                      |
| PER5                     | Five-pin receptacle only (control ordered separate) <sup>12,13</sup>                                   | FAO           | Field adjustable output <sup>17</sup>   | L90                       | Left rotated optics <sup>1</sup>          | DDBTXD Textured dark bronze      |
| PER7                     | Seven-pin receptacle only (leads exit fixture) (control ordered separate) <sup>12,13</sup>             |               |   | R90                       | Right rotated optics <sup>1</sup>         | DBLBXD Textured black            |
| DMG                      | 0–10V dimming extend out back of housing for external control (control ordered separate) <sup>14</sup> |               |   | DDL                       | Diffused drop lens <sup>18</sup>          | DNATXD Textured natural aluminum |
|                          |  |               |   | <b>Shipped separately</b> |   | DWHGXD Textured white            |
|                          |  |               |   | BS                        | Bird spikes <sup>19</sup>                 |                                  |
|                          |  |               |   | EGS                       | External glare shield                     |                                  |



## Ordering Information

### Accessories

Ordered and shipped separately.

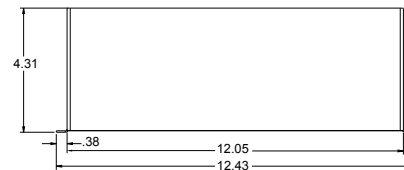
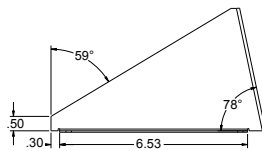
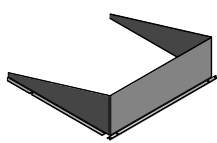
|                    |   |
|--------------------|---|
| DLL127F 1.5 JU     | Photocell - SSL twist-lock (120-277V) <sup>20</sup>                                     |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) <sup>20</sup>   |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) <sup>20</sup>   |
| DSHORT SBK U       | Shorting cap <sup>20</sup>  |
| DSX0HS 20C U       | House-side shield for P1,P2,P3 and P4 <sup>18</sup>                                     |
| DSX0HS 30C U       | House-side shield for P10,P11,P12 and P13 <sup>18</sup>                                 |
| DSX0HS 40C U       | House-side shield for P5,P6 and P7 <sup>18</sup>  |
| DSX0DDL U          | Diffused drop lens (polycarbonate) <sup>18</sup>  |
| PUMBA DDBXD U*     | Square and round pole universal mounting bracket adaptor (specify finish) <sup>21</sup> |
| KMA8 DDBXD U       | Mast arm mounting bracket adaptor (specify finish) <sup>21</sup>                        |
| DSX0EGS (FINISH) U | External glare shield   |

For more control options, visit [DTL](#) and [ROAM](#) online.  
Link to [nLight Air 2](#)

### NOTES

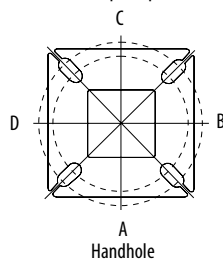
- P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS or DDL.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available with BL30, BL50 or PNMT options.
- Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANSI C136.31.
- Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN.
- Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM<sup>®</sup> node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIR1FC3V.
- Reference Motion Sensor table on page 3.
- Reference PER Table on page 3 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

## EGS – External Glare Shield



## Drilling

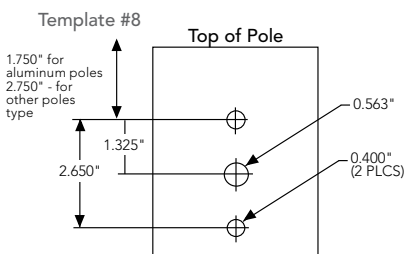
### HANDHOLE ORIENTATION (from top of pole)



### Tenon Mounting Slipfitter

| Tenon O.D. | Single Unit | 2 at 180° | 2 at 90°  | 3 at 120° | 3 at 90°  | 4 at 90°  |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8"     | AST20-190   | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8"     | AST25-190   | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4"         | AST35-190   | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

| Mounting Option                           | Drilling Template | Single | 2 @ 180    | 2 @ 90     | 3 @ 90        | 3 @ 120         | 4 @ 90           |
|---|-------------------|--------|------------|------------|---------------|-----------------|------------------|
| Head Location                             |                   | Side B | Side B & D | Side B & C | Side B, C & D | Round Pole Only | Side A, B, C & D |
| Drill Nomenclature                        | #8                | DM19AS | DM28AS     | DM29AS     | DM39AS        | DM32AS          | DM49AS           |
| Minimum Acceptable Outside Pole Dimension |                   |        |            |            |               |                 |                  |
| SPA                                       | #8                | 2-7/8" | 2-7/8"     | 3.5"       | 3.5"          |                 | 3.5"             |
| RPA                                       | #8                | 2-7/8" | 2-7/8"     | 3.5"       | 3.5"          | 3"              | 3.5"             |
| SPUMBA                                    | #5                | 2-7/8" | 3"         | 4"         | 4"            |                 | 4"               |
| RPUMBA                                    | #5                | 2-7/8" | 3.5"       | 5"         | 5"            | 3.5"            | 5"               |

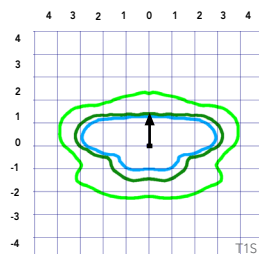
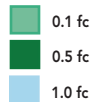


# Photometric Diagrams

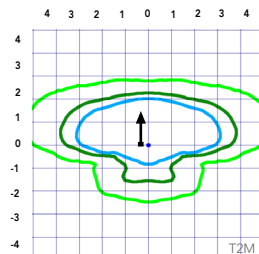
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 0 homepage](#).

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

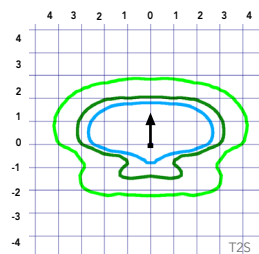
## LEGEND



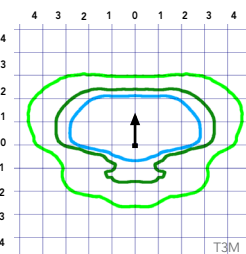
Test No.



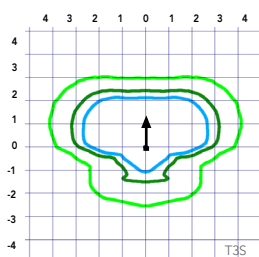
Test No.



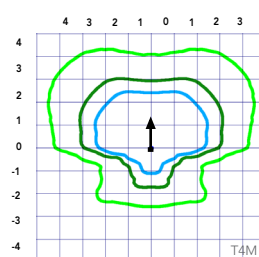
Test No. LTL2345/P25 tested in accordance with IESNA LM-79-08.



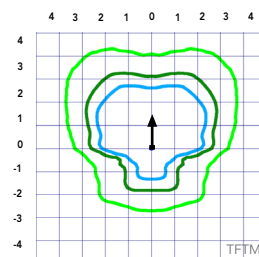
Test No. LTL2345/P25 tested in accordance with IESNA LM-79-08.



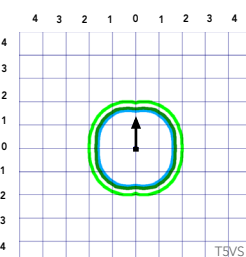
Test No. LTL2345/P25 tested in accordance with IESNA LM-79-08.



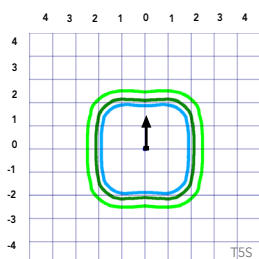
Test No.



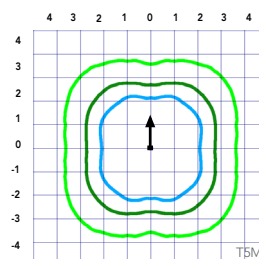
Test No.



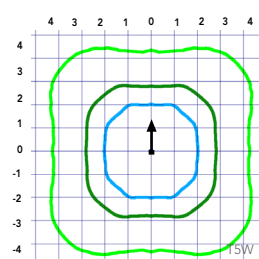
Test No.



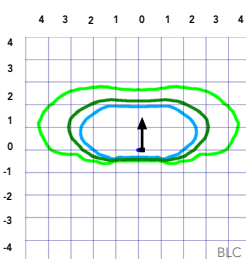
Test No.



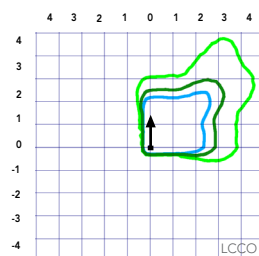
Test No.



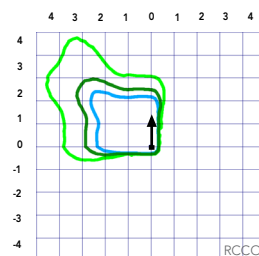
Test No. LTL2345/P25 tested in accordance with IESNA LM-79-08.



Test No.



Test No.



Test No.



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient     |             | Lumen Multiplier |
|-------------|-------------|------------------|
| 0°C         | 32°F        | 1.04             |
| 5°C         | 41°F        | 1.04             |
| 10°C        | 50°F        | 1.03             |
| 15°C        | 59°F        | 1.02             |
| 20°C        | 68°F        | 1.01             |
| <b>25°C</b> | <b>77°F</b> | <b>1.00</b>      |
| 30°C        | 86°F        | 0.99             |
| 35°C        | 95°F        | 0.98             |
| 40°C        | 104°F       | 0.97             |

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | Lumen Maintenance Factor |
|-----------------|--------------------------|
| 25,000          | 0.96                     |
| 50,000          | 0.92                     |
| 100,000         | 0.85                     |

| Motion Sensor Default Settings |                 |                             |                     |            |              |                |
|--------------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| Option                         | Dimmed State    | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH                    | 3V (37%) Output | 10V (100%) Output           | Enabled @ 5FC       | 5 min      | 3 sec        | 5 min          |
| *PIR1FC3V or PIRH1FC3V         | 3V (37%) Output | 10V (100%) Output           | Enabled @ 1FC       | 5 min      | 3 sec        | 5 min          |

\*for use with separate Dusk to Dawn or timer.

### Controls Options

| Nomenclature  | Description   | Functionality   | Primary control device  | Notes  |
|---------------|---|---|---|--|
| FAO           | Field adjustable output device installed inside the luminaire; wired to the driver dimming leads. | Allows the luminaire to be manually dimmed, effectively trimming the light output.  | FAO device  | Cannot be used with other controls options that need the 0-10V leads                                 |
| DS            | Drivers wired independently for 50/50 luminaire operation   | The luminaire is wired to two separate circuits, allowing for 50/50 operation.  | Independently wired drivers   | Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative. |
| PERS or PER7  | Twist-lock photocell receptacle   | Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.              | Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM. | Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire                        |
| PIR or PIRH   | Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting          | Luminaires dim when no occupancy is detected.   | Acuity Controls SBGR  | Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.          |
| NLTAIR2 PIRHN | nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.            | Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse. | nLight Air rSDGR  | nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.    |

### Electrical Load

|                                      |                     |           |               |         | Current (A) |      |      |      |      |      |
|--------------------------------------|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
|                                      | Performance Package | LED Count | Drive Current | Wattage | 120         | 208  | 240  | 277  | 347  | 480  |
| Forward Optics (Non-Rotated)         | P1                  | 20        | 530           | 38      | 0.32        | 0.18 | 0.15 | 0.15 | 0.10 | 0.08 |
|                                      | P2                  | 20        | 700           | 49      | 0.41        | 0.23 | 0.20 | 0.19 | 0.14 | 0.11 |
|                                      | P3                  | 20        | 1050          | 71      | 0.60        | 0.37 | 0.32 | 0.27 | 0.21 | 0.15 |
|                                      | P4                  | 20        | 1400          | 92      | 0.77        | 0.45 | 0.39 | 0.35 | 0.28 | 0.20 |
|                                      | P5                  | 40        | 700           | 89      | 0.74        | 0.43 | 0.38 | 0.34 | 0.26 | 0.20 |
|                                      | P6                  | 40        | 1050          | 134     | 1.13        | 0.65 | 0.55 | 0.48 | 0.39 | 0.29 |
|                                      | P7                  | 40        | 1300          | 166     | 1.38        | 0.80 | 0.69 | 0.60 | 0.50 | 0.37 |
| Rotated Optics (Requires L90 or R90) | P10                 | 30        | 530           | 53      | 0.45        | 0.26 | 0.23 | 0.21 | 0.16 | 0.12 |
|                                      | P11                 | 30        | 700           | 72      | 0.60        | 0.35 | 0.30 | 0.27 | 0.20 | 0.16 |
|                                      | P12                 | 30        | 1050          | 104     | 0.88        | 0.50 | 0.44 | 0.39 | 0.31 | 0.23 |
|                                      | P13                 | 30        | 1300          | 128     | 1.08        | 0.62 | 0.54 | 0.48 | 0.37 | 0.27 |

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics |           |               |              |            |                         |   |   |   |     |                         |   |   |   |     |                         |   |   |   |     |
|----------------|-----------|---------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|
| Power Package  | LED Count | Drive Current | System Watts | Dist. Type | 30K<br>(3000 K, 70 CRI) |   |   |   |     | 40K<br>(4000 K, 70 CRI) |   |   |   |     | 50K<br>(5000 K, 70 CRI) |   |   |   |     |
|                |           |               |              |            | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW |
| P1             | 20        | 530           | 38W          | T1S        | 4,369                   | 1 | 0 | 1 | 115 | 4,706                   | 1 | 0 | 1 | 124 | 4,766                   | 1 | 0 | 1 | 125 |
|                |           |               |              | T2S        | 4,364                   | 1 | 0 | 1 | 115 | 4,701                   | 1 | 0 | 1 | 124 | 4,761                   | 1 | 0 | 1 | 125 |
|                |           |               |              | T2M        | 4,387                   | 1 | 0 | 1 | 115 | 4,726                   | 1 | 0 | 1 | 124 | 4,785                   | 1 | 0 | 1 | 126 |
|                |           |               |              | T3S        | 4,248                   | 1 | 0 | 1 | 112 | 4,577                   | 1 | 0 | 1 | 120 | 4,634                   | 1 | 0 | 1 | 122 |
|                |           |               |              | T3M        | 4,376                   | 1 | 0 | 1 | 115 | 4,714                   | 1 | 0 | 1 | 124 | 4,774                   | 1 | 0 | 1 | 126 |
|                |           |               |              | T4M        | 4,281                   | 1 | 0 | 1 | 113 | 4,612                   | 1 | 0 | 2 | 121 | 4,670                   | 1 | 0 | 2 | 123 |
|                |           |               |              | TFTM       | 4,373                   | 1 | 0 | 1 | 115 | 4,711                   | 1 | 0 | 2 | 124 | 4,771                   | 1 | 0 | 2 | 126 |
|                |           |               |              | TSVS       | 4,548                   | 2 | 0 | 0 | 120 | 4,900                   | 2 | 0 | 0 | 129 | 4,962                   | 2 | 0 | 0 | 131 |
|                |           |               |              | TSS        | 4,552                   | 2 | 0 | 0 | 120 | 4,904                   | 2 | 0 | 0 | 129 | 4,966                   | 2 | 0 | 0 | 131 |
|                |           |               |              | TSM        | 4,541                   | 3 | 0 | 1 | 120 | 4,891                   | 3 | 0 | 1 | 129 | 4,953                   | 3 | 0 | 1 | 130 |
|                |           |               |              | TSW        | 4,576                   | 3 | 0 | 2 | 120 | 4,929                   | 3 | 0 | 2 | 130 | 4,992                   | 3 | 0 | 2 | 131 |
|                |           |               |              | BLC        | 3,586                   | 1 | 0 | 1 | 94  | 3,863                   | 1 | 0 | 1 | 102 | 3,912                   | 1 | 0 | 1 | 103 |
|                |           |               |              | LCCO       | 2,668                   | 1 | 0 | 1 | 70  | 2,874                   | 1 | 0 | 2 | 76  | 2,911                   | 1 | 0 | 2 | 77  |
|                |           |               |              | RCCO       | 2,668                   | 1 | 0 | 1 | 70  | 2,874                   | 1 | 0 | 2 | 76  | 2,911                   | 1 | 0 | 2 | 77  |
| P2             | 20        | 700           | 49W          | T1S        | 5,570                   | 1 | 0 | 1 | 114 | 6,001                   | 1 | 0 | 1 | 122 | 6,077                   | 2 | 0 | 2 | 124 |
|                |           |               |              | T2S        | 5,564                   | 1 | 0 | 2 | 114 | 5,994                   | 1 | 0 | 2 | 122 | 6,070                   | 2 | 0 | 2 | 124 |
|                |           |               |              | T2M        | 5,593                   | 1 | 0 | 1 | 114 | 6,025                   | 1 | 0 | 1 | 123 | 6,102                   | 1 | 0 | 1 | 125 |
|                |           |               |              | T3S        | 5,417                   | 1 | 0 | 2 | 111 | 5,835                   | 1 | 0 | 2 | 119 | 5,909                   | 2 | 0 | 2 | 121 |
|                |           |               |              | T3M        | 5,580                   | 1 | 0 | 2 | 114 | 6,011                   | 1 | 0 | 2 | 123 | 6,087                   | 1 | 0 | 2 | 124 |
|                |           |               |              | T4M        | 5,458                   | 1 | 0 | 2 | 111 | 5,880                   | 1 | 0 | 2 | 120 | 5,955                   | 1 | 0 | 2 | 122 |
|                |           |               |              | TFTM       | 5,576                   | 1 | 0 | 2 | 114 | 6,007                   | 1 | 0 | 2 | 123 | 6,083                   | 1 | 0 | 2 | 124 |
|                |           |               |              | TSVS       | 5,799                   | 2 | 0 | 0 | 118 | 6,247                   | 2 | 0 | 0 | 127 | 6,327                   | 2 | 0 | 0 | 129 |
|                |           |               |              | TSS        | 5,804                   | 2 | 0 | 0 | 118 | 6,252                   | 2 | 0 | 0 | 128 | 6,332                   | 2 | 0 | 1 | 129 |
|                |           |               |              | TSM        | 5,789                   | 3 | 0 | 1 | 118 | 6,237                   | 3 | 0 | 1 | 127 | 6,316                   | 3 | 0 | 1 | 129 |
|                |           |               |              | TSW        | 5,834                   | 3 | 0 | 2 | 119 | 6,285                   | 3 | 0 | 2 | 128 | 6,364                   | 3 | 0 | 2 | 130 |
|                |           |               |              | BLC        | 4,572                   | 1 | 0 | 1 | 93  | 4,925                   | 1 | 0 | 1 | 101 | 4,987                   | 1 | 0 | 1 | 102 |
|                |           |               |              | LCCO       | 3,402                   | 1 | 0 | 2 | 69  | 3,665                   | 1 | 0 | 2 | 75  | 3,711                   | 1 | 0 | 2 | 76  |
|                |           |               |              | RCCO       | 3,402                   | 1 | 0 | 2 | 69  | 3,665                   | 1 | 0 | 2 | 75  | 3,711                   | 1 | 0 | 2 | 76  |
| P3             | 20        | 1050          | 71W          | T1S        | 7,833                   | 2 | 0 | 2 | 110 | 8,438                   | 2 | 0 | 2 | 119 | 8,545                   | 2 | 0 | 2 | 120 |
|                |           |               |              | T2S        | 7,825                   | 2 | 0 | 2 | 110 | 8,429                   | 2 | 0 | 2 | 119 | 8,536                   | 2 | 0 | 2 | 120 |
|                |           |               |              | T2M        | 7,865                   | 2 | 0 | 2 | 111 | 8,473                   | 2 | 0 | 2 | 119 | 8,580                   | 2 | 0 | 2 | 121 |
|                |           |               |              | T3S        | 7,617                   | 2 | 0 | 2 | 107 | 8,205                   | 2 | 0 | 2 | 116 | 8,309                   | 2 | 0 | 2 | 117 |
|                |           |               |              | T3M        | 7,846                   | 2 | 0 | 2 | 111 | 8,452                   | 2 | 0 | 2 | 119 | 8,559                   | 2 | 0 | 2 | 121 |
|                |           |               |              | T4M        | 7,675                   | 2 | 0 | 2 | 108 | 8,269                   | 2 | 0 | 2 | 116 | 8,373                   | 2 | 0 | 2 | 118 |
|                |           |               |              | TFTM       | 7,841                   | 2 | 0 | 2 | 110 | 8,447                   | 2 | 0 | 2 | 119 | 8,554                   | 2 | 0 | 2 | 120 |
|                |           |               |              | TSVS       | 8,155                   | 3 | 0 | 0 | 115 | 8,785                   | 3 | 0 | 0 | 124 | 8,896                   | 3 | 0 | 0 | 125 |
|                |           |               |              | TSS        | 8,162                   | 3 | 0 | 1 | 115 | 8,792                   | 3 | 0 | 1 | 124 | 8,904                   | 3 | 0 | 1 | 125 |
|                |           |               |              | TSM        | 8,141                   | 3 | 0 | 2 | 115 | 8,770                   | 3 | 0 | 2 | 124 | 8,881                   | 3 | 0 | 2 | 125 |
|                |           |               |              | TSW        | 8,204                   | 3 | 0 | 2 | 116 | 8,838                   | 4 | 0 | 2 | 124 | 8,950                   | 4 | 0 | 2 | 126 |
|                |           |               |              | BLC        | 6,429                   | 1 | 0 | 2 | 91  | 6,926                   | 1 | 0 | 2 | 98  | 7,013                   | 1 | 0 | 2 | 99  |
|                |           |               |              | LCCO       | 4,784                   | 1 | 0 | 2 | 67  | 5,153                   | 1 | 0 | 2 | 73  | 5,218                   | 1 | 0 | 2 | 73  |
|                |           |               |              | RCCO       | 4,784                   | 1 | 0 | 2 | 67  | 5,153                   | 1 | 0 | 2 | 73  | 5,218                   | 1 | 0 | 2 | 73  |
| P4             | 20        | 1400          | 92W          | T1S        | 9,791                   | 2 | 0 | 2 | 106 | 10,547                  | 2 | 0 | 2 | 115 | 10,681                  | 2 | 0 | 2 | 116 |
|                |           |               |              | T2S        | 9,780                   | 2 | 0 | 2 | 106 | 10,536                  | 2 | 0 | 2 | 115 | 10,669                  | 2 | 0 | 2 | 116 |
|                |           |               |              | T2M        | 9,831                   | 2 | 0 | 2 | 107 | 10,590                  | 2 | 0 | 2 | 115 | 10,724                  | 2 | 0 | 2 | 117 |
|                |           |               |              | T3S        | 9,521                   | 2 | 0 | 2 | 103 | 10,256                  | 2 | 0 | 2 | 111 | 10,386                  | 2 | 0 | 2 | 113 |
|                |           |               |              | T3M        | 9,807                   | 2 | 0 | 2 | 107 | 10,565                  | 2 | 0 | 2 | 115 | 10,698                  | 2 | 0 | 2 | 116 |
|                |           |               |              | T4M        | 9,594                   | 2 | 0 | 2 | 104 | 10,335                  | 2 | 0 | 3 | 112 | 10,466                  | 2 | 0 | 3 | 114 |
|                |           |               |              | TFTM       | 9,801                   | 2 | 0 | 2 | 107 | 10,558                  | 2 | 0 | 2 | 115 | 10,692                  | 2 | 0 | 2 | 116 |
|                |           |               |              | TSVS       | 10,193                  | 3 | 0 | 1 | 111 | 10,981                  | 3 | 0 | 1 | 119 | 11,120                  | 3 | 0 | 1 | 121 |
|                |           |               |              | TSS        | 10,201                  | 3 | 0 | 1 | 111 | 10,990                  | 3 | 0 | 1 | 119 | 11,129                  | 3 | 0 | 1 | 121 |
|                |           |               |              | TSM        | 10,176                  | 4 | 0 | 2 | 111 | 10,962                  | 4 | 0 | 2 | 119 | 11,101                  | 4 | 0 | 2 | 121 |
|                |           |               |              | TSW        | 10,254                  | 4 | 0 | 3 | 111 | 11,047                  | 4 | 0 | 3 | 120 | 11,186                  | 4 | 0 | 3 | 122 |
|                |           |               |              | BLC        | 8,036                   | 1 | 0 | 2 | 87  | 8,656                   | 1 | 0 | 2 | 94  | 8,766                   | 1 | 0 | 2 | 95  |
|                |           |               |              | LCCO       | 5,979                   | 1 | 0 | 2 | 65  | 6,441                   | 1 | 0 | 2 | 70  | 6,523                   | 1 | 0 | 3 | 71  |
|                |           |               |              |            | 5,979                   | 1 | 0 | 2 | 65  | 6,441                   | 1 | 0 | 2 | 70  | 6,523                   | 1 | 0 | 3 | 71  |

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics |           |               |              |            |                         |   |   |   |     |                         |   |   |   |     |                         |   |   |   |     |
|----------------|-----------|---------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|
| Power Package  | LED Count | Drive Current | System Watts | Dist. Type | 30K<br>(3000 K, 70 CRI) |   |   |   |     | 40K<br>(4000 K, 70 CRI) |   |   |   |     | 50K<br>(5000 K, 70 CRI) |   |   |   |     |
|                |           |               |              |            | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW |
| P5             | 40        | 700           | 89W          | T1S        | 10,831                  | 2 | 0 | 2 | 122 | 11,668                  | 2 | 0 | 2 | 131 | 11,816                  | 2 | 0 | 2 | 133 |
|                |           |               |              | T2S        | 10,820                  | 2 | 0 | 2 | 122 | 11,656                  | 2 | 0 | 2 | 131 | 11,803                  | 2 | 0 | 2 | 133 |
|                |           |               |              | T2M        | 10,876                  | 2 | 0 | 2 | 122 | 11,716                  | 2 | 0 | 2 | 132 | 11,864                  | 2 | 0 | 2 | 133 |
|                |           |               |              | T3S        | 10,532                  | 2 | 0 | 2 | 118 | 11,346                  | 2 | 0 | 2 | 127 | 11,490                  | 2 | 0 | 2 | 129 |
|                |           |               |              | T3M        | 10,849                  | 2 | 0 | 2 | 122 | 11,687                  | 2 | 0 | 2 | 131 | 11,835                  | 2 | 0 | 2 | 133 |
|                |           |               |              | T4M        | 10,613                  | 2 | 0 | 3 | 119 | 11,434                  | 2 | 0 | 3 | 128 | 11,578                  | 2 | 0 | 3 | 130 |
|                |           |               |              | TFTM       | 10,842                  | 2 | 0 | 2 | 122 | 11,680                  | 2 | 0 | 2 | 131 | 11,828                  | 2 | 0 | 2 | 133 |
|                |           |               |              | TSVS       | 11,276                  | 3 | 0 | 1 | 127 | 12,148                  | 3 | 0 | 1 | 136 | 12,302                  | 3 | 0 | 1 | 138 |
|                |           |               |              | TSS        | 11,286                  | 3 | 0 | 1 | 127 | 12,158                  | 3 | 0 | 1 | 137 | 12,312                  | 3 | 0 | 1 | 138 |
|                |           |               |              | TSM        | 11,257                  | 4 | 0 | 2 | 126 | 12,127                  | 4 | 0 | 2 | 136 | 12,280                  | 4 | 0 | 2 | 138 |
|                |           |               |              | TSW        | 11,344                  | 4 | 0 | 3 | 127 | 12,221                  | 4 | 0 | 3 | 137 | 12,375                  | 4 | 0 | 3 | 139 |
|                |           |               |              | BLC        | 8,890                   | 1 | 0 | 2 | 100 | 9,576                   | 1 | 0 | 2 | 108 | 9,698                   | 1 | 0 | 2 | 109 |
|                |           |               |              | LCCO       | 6,615                   | 1 | 0 | 3 | 74  | 7,126                   | 1 | 0 | 3 | 80  | 7,216                   | 1 | 0 | 3 | 81  |
|                |           |               |              | RCCO       | 6,615                   | 1 | 0 | 3 | 74  | 7,126                   | 1 | 0 | 3 | 80  | 7,216                   | 1 | 0 | 3 | 81  |
| P6             | 40        | 1050          | 134W         | T1S        | 14,805                  | 3 | 0 | 3 | 110 | 15,949                  | 3 | 0 | 3 | 119 | 16,151                  | 3 | 0 | 3 | 121 |
|                |           |               |              | T2S        | 14,789                  | 3 | 0 | 3 | 110 | 15,932                  | 3 | 0 | 3 | 119 | 16,134                  | 3 | 0 | 3 | 120 |
|                |           |               |              | T2M        | 14,865                  | 3 | 0 | 3 | 111 | 16,014                  | 3 | 0 | 3 | 120 | 16,217                  | 3 | 0 | 3 | 121 |
|                |           |               |              | T3S        | 14,396                  | 3 | 0 | 3 | 107 | 15,509                  | 3 | 0 | 3 | 116 | 15,705                  | 3 | 0 | 3 | 117 |
|                |           |               |              | T3M        | 14,829                  | 2 | 0 | 3 | 111 | 15,975                  | 3 | 0 | 3 | 119 | 16,177                  | 3 | 0 | 3 | 121 |
|                |           |               |              | T4M        | 14,507                  | 2 | 0 | 3 | 108 | 15,628                  | 3 | 0 | 3 | 117 | 15,826                  | 3 | 0 | 3 | 118 |
|                |           |               |              | TFTM       | 14,820                  | 2 | 0 | 3 | 111 | 15,965                  | 3 | 0 | 3 | 119 | 16,167                  | 3 | 0 | 3 | 121 |
|                |           |               |              | TSVS       | 15,413                  | 4 | 0 | 1 | 115 | 16,604                  | 4 | 0 | 1 | 124 | 16,815                  | 4 | 0 | 1 | 125 |
|                |           |               |              | TSS        | 15,426                  | 3 | 0 | 1 | 115 | 16,618                  | 4 | 0 | 1 | 124 | 16,828                  | 4 | 0 | 1 | 126 |
|                |           |               |              | TSM        | 15,387                  | 4 | 0 | 2 | 115 | 16,576                  | 4 | 0 | 2 | 124 | 16,786                  | 4 | 0 | 2 | 125 |
|                |           |               |              | TSW        | 15,506                  | 4 | 0 | 3 | 116 | 16,704                  | 4 | 0 | 3 | 125 | 16,915                  | 4 | 0 | 3 | 126 |
|                |           |               |              | BLC        | 12,151                  | 1 | 0 | 2 | 91  | 13,090                  | 1 | 0 | 2 | 98  | 13,255                  | 1 | 0 | 2 | 99  |
|                |           |               |              | LCCO       | 9,041                   | 1 | 0 | 3 | 67  | 9,740                   | 1 | 0 | 3 | 73  | 9,863                   | 1 | 0 | 3 | 74  |
|                |           |               |              | RCCO       | 9,041                   | 1 | 0 | 3 | 67  | 9,740                   | 1 | 0 | 3 | 73  | 9,863                   | 1 | 0 | 3 | 74  |
| P7             | 40        | 1300          | 166W         | T1S        | 17,023                  | 3 | 0 | 3 | 103 | 18,338                  | 3 | 0 | 3 | 110 | 18,570                  | 3 | 0 | 3 | 112 |
|                |           |               |              | T2S        | 17,005                  | 3 | 0 | 3 | 102 | 18,319                  | 3 | 0 | 3 | 110 | 18,551                  | 3 | 0 | 3 | 112 |
|                |           |               |              | T2M        | 17,092                  | 3 | 0 | 3 | 103 | 18,413                  | 3 | 0 | 3 | 111 | 18,646                  | 3 | 0 | 3 | 112 |
|                |           |               |              | T3S        | 16,553                  | 3 | 0 | 3 | 100 | 17,832                  | 3 | 0 | 3 | 107 | 18,058                  | 3 | 0 | 3 | 109 |
|                |           |               |              | T3M        | 17,051                  | 3 | 0 | 3 | 103 | 18,369                  | 3 | 0 | 3 | 111 | 18,601                  | 3 | 0 | 3 | 112 |
|                |           |               |              | T4M        | 16,681                  | 3 | 0 | 3 | 100 | 17,969                  | 3 | 0 | 3 | 108 | 18,197                  | 3 | 0 | 3 | 110 |
|                |           |               |              | TFTM       | 17,040                  | 3 | 0 | 3 | 103 | 18,357                  | 3 | 0 | 4 | 111 | 18,590                  | 3 | 0 | 4 | 112 |
|                |           |               |              | TSVS       | 17,723                  | 4 | 0 | 1 | 107 | 19,092                  | 4 | 0 | 1 | 115 | 19,334                  | 4 | 0 | 1 | 116 |
|                |           |               |              | TSS        | 17,737                  | 4 | 0 | 2 | 107 | 19,108                  | 4 | 0 | 2 | 115 | 19,349                  | 4 | 0 | 2 | 117 |
|                |           |               |              | TSM        | 17,692                  | 4 | 0 | 2 | 107 | 19,059                  | 4 | 0 | 2 | 115 | 19,301                  | 4 | 0 | 2 | 116 |
|                |           |               |              | TSW        | 17,829                  | 5 | 0 | 3 | 107 | 19,207                  | 5 | 0 | 3 | 116 | 19,450                  | 5 | 0 | 3 | 117 |
|                |           |               |              | BLC        | 13,971                  | 2 | 0 | 2 | 84  | 15,051                  | 2 | 0 | 2 | 91  | 15,241                  | 2 | 0 | 2 | 92  |
|                |           |               |              | LCCO       | 10,396                  | 1 | 0 | 3 | 63  | 11,199                  | 1 | 0 | 3 | 67  | 11,341                  | 1 | 0 | 3 | 68  |
|                |           |               |              |            | 10,396                  | 1 | 0 | 3 | 63  | 11,199                  | 1 | 0 | 3 | 67  | 11,341                  | 1 | 0 | 3 | 68  |

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics |           |               |              |            |                         |   |   |   |     |                         |   |   |   |     |                         |   |   |   |     |
|----------------|-----------|---------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|
| Power Package  | LED Count | Drive Current | System Watts | Dist. Type | 30K<br>(3000 K, 70 CRI) |   |   |   |     | 40K<br>(4000 K, 70 CRI) |   |   |   |     | 50K<br>(5000 K, 70 CRI) |   |   |   |     |
|                |           |               |              |            | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW |
| P10            | 30        | 530           | 53W          | T1S        | 6,727                   | 2 | 0 | 2 | 127 | 7,247                   | 3 | 0 | 3 | 137 | 7,339                   | 3 | 0 | 3 | 138 |
|                |           |               |              | T2S        | 6,689                   | 3 | 0 | 3 | 126 | 7,205                   | 3 | 0 | 3 | 136 | 7,297                   | 3 | 0 | 3 | 138 |
|                |           |               |              | T2M        | 6,809                   | 3 | 0 | 3 | 128 | 7,336                   | 3 | 0 | 3 | 138 | 7,428                   | 3 | 0 | 3 | 140 |
|                |           |               |              | T3S        | 6,585                   | 3 | 0 | 3 | 124 | 7,094                   | 3 | 0 | 3 | 134 | 7,183                   | 3 | 0 | 3 | 136 |
|                |           |               |              | T3M        | 6,805                   | 3 | 0 | 3 | 128 | 7,331                   | 3 | 0 | 3 | 138 | 7,424                   | 3 | 0 | 3 | 140 |
|                |           |               |              | T4M        | 6,677                   | 3 | 0 | 3 | 126 | 7,193                   | 3 | 0 | 3 | 136 | 7,284                   | 3 | 0 | 3 | 137 |
|                |           |               |              | TFTM       | 6,850                   | 3 | 0 | 3 | 129 | 7,379                   | 3 | 0 | 3 | 139 | 7,472                   | 3 | 0 | 3 | 141 |
|                |           |               |              | TSVS       | 6,898                   | 3 | 0 | 0 | 130 | 7,431                   | 3 | 0 | 0 | 140 | 7,525                   | 3 | 0 | 0 | 142 |
|                |           |               |              | T5S        | 6,840                   | 2 | 0 | 1 | 129 | 7,368                   | 2 | 0 | 1 | 139 | 7,461                   | 2 | 0 | 1 | 141 |
|                |           |               |              | T5M        | 6,838                   | 3 | 0 | 1 | 129 | 7,366                   | 3 | 0 | 2 | 139 | 7,460                   | 3 | 0 | 2 | 141 |
|                |           |               |              | TSW        | 6,777                   | 3 | 0 | 2 | 128 | 7,300                   | 3 | 0 | 2 | 138 | 7,393                   | 3 | 0 | 2 | 139 |
|                |           |               |              | BLC        | 5,626                   | 2 | 0 | 2 | 106 | 6,060                   | 2 | 0 | 2 | 114 | 6,137                   | 2 | 0 | 2 | 116 |
|                |           |               |              | LCCO       | 4,018                   | 1 | 0 | 2 | 76  | 4,328                   | 1 | 0 | 2 | 82  | 4,383                   | 1 | 0 | 2 | 83  |
|                |           |               |              | RCCO       | 4,013                   | 3 | 0 | 3 | 76  | 4,323                   | 3 | 0 | 3 | 82  | 4,377                   | 3 | 0 | 3 | 83  |
| P11            | 30        | 700           | 72W          | T1S        | 8,594                   | 3 | 0 | 3 | 119 | 9,258                   | 3 | 0 | 3 | 129 | 9,376                   | 3 | 0 | 3 | 130 |
|                |           |               |              | T2S        | 8,545                   | 3 | 0 | 3 | 119 | 9,205                   | 3 | 0 | 3 | 128 | 9,322                   | 3 | 0 | 3 | 129 |
|                |           |               |              | T2M        | 8,699                   | 3 | 0 | 3 | 121 | 9,371                   | 3 | 0 | 3 | 130 | 9,490                   | 3 | 0 | 3 | 132 |
|                |           |               |              | T3S        | 8,412                   | 3 | 0 | 3 | 117 | 9,062                   | 3 | 0 | 3 | 126 | 9,177                   | 3 | 0 | 3 | 127 |
|                |           |               |              | T3M        | 8,694                   | 3 | 0 | 3 | 121 | 9,366                   | 3 | 0 | 3 | 130 | 9,484                   | 3 | 0 | 3 | 132 |
|                |           |               |              | T4M        | 8,530                   | 3 | 0 | 3 | 118 | 9,189                   | 3 | 0 | 3 | 128 | 9,305                   | 3 | 0 | 3 | 129 |
|                |           |               |              | TFTM       | 8,750                   | 3 | 0 | 3 | 122 | 9,427                   | 3 | 0 | 3 | 131 | 9,546                   | 3 | 0 | 3 | 133 |
|                |           |               |              | TSVS       | 8,812                   | 3 | 0 | 0 | 122 | 9,493                   | 3 | 0 | 0 | 132 | 9,613                   | 3 | 0 | 0 | 134 |
|                |           |               |              | T5S        | 8,738                   | 3 | 0 | 1 | 121 | 9,413                   | 3 | 0 | 1 | 131 | 9,532                   | 3 | 0 | 1 | 132 |
|                |           |               |              | T5M        | 8,736                   | 3 | 0 | 2 | 121 | 9,411                   | 3 | 0 | 2 | 131 | 9,530                   | 3 | 0 | 2 | 132 |
|                |           |               |              | TSW        | 8,657                   | 4 | 0 | 2 | 120 | 9,326                   | 4 | 0 | 2 | 130 | 9,444                   | 4 | 0 | 2 | 131 |
|                |           |               |              | BLC        | 7,187                   | 3 | 0 | 3 | 100 | 7,742                   | 3 | 0 | 3 | 108 | 7,840                   | 3 | 0 | 3 | 109 |
|                |           |               |              | LCCO       | 5,133                   | 1 | 0 | 2 | 71  | 5,529                   | 1 | 0 | 2 | 77  | 5,599                   | 1 | 0 | 2 | 78  |
|                |           |               |              | RCCO       | 5,126                   | 3 | 0 | 3 | 71  | 5,522                   | 3 | 0 | 3 | 77  | 5,592                   | 3 | 0 | 3 | 78  |
| P12            | 30        | 1050          | 104W         | T1S        | 12,149                  | 3 | 0 | 3 | 117 | 13,088                  | 3 | 0 | 3 | 126 | 13,253                  | 3 | 0 | 3 | 127 |
|                |           |               |              | T2S        | 12,079                  | 4 | 0 | 4 | 116 | 13,012                  | 4 | 0 | 4 | 125 | 13,177                  | 4 | 0 | 4 | 127 |
|                |           |               |              | T2M        | 12,297                  | 3 | 0 | 3 | 118 | 13,247                  | 3 | 0 | 3 | 127 | 13,415                  | 3 | 0 | 3 | 129 |
|                |           |               |              | T3S        | 11,891                  | 4 | 0 | 4 | 114 | 12,810                  | 4 | 0 | 4 | 123 | 12,972                  | 4 | 0 | 4 | 125 |
|                |           |               |              | T3M        | 12,290                  | 3 | 0 | 3 | 118 | 13,239                  | 4 | 0 | 4 | 127 | 13,407                  | 4 | 0 | 4 | 129 |
|                |           |               |              | T4M        | 12,058                  | 4 | 0 | 4 | 116 | 12,990                  | 4 | 0 | 4 | 125 | 13,154                  | 4 | 0 | 4 | 126 |
|                |           |               |              | TFTM       | 12,369                  | 4 | 0 | 4 | 119 | 13,325                  | 4 | 0 | 4 | 128 | 13,494                  | 4 | 0 | 4 | 130 |
|                |           |               |              | TSVS       | 12,456                  | 3 | 0 | 1 | 120 | 13,419                  | 3 | 0 | 1 | 129 | 13,589                  | 4 | 0 | 1 | 131 |
|                |           |               |              | T5S        | 12,351                  | 3 | 0 | 1 | 119 | 13,306                  | 3 | 0 | 1 | 128 | 13,474                  | 3 | 0 | 1 | 130 |
|                |           |               |              | T5M        | 12,349                  | 4 | 0 | 2 | 119 | 13,303                  | 4 | 0 | 2 | 128 | 13,471                  | 4 | 0 | 2 | 130 |
|                |           |               |              | TSW        | 12,238                  | 4 | 0 | 3 | 118 | 13,183                  | 4 | 0 | 3 | 127 | 13,350                  | 4 | 0 | 3 | 128 |
|                |           |               |              | BLC        | 10,159                  | 3 | 0 | 3 | 98  | 10,944                  | 3 | 0 | 3 | 105 | 11,083                  | 3 | 0 | 3 | 107 |
|                |           |               |              | LCCO       | 7,256                   | 1 | 0 | 3 | 70  | 7,816                   | 1 | 0 | 3 | 75  | 7,915                   | 1 | 0 | 3 | 76  |
|                |           |               |              | RCCO       | 7,246                   | 3 | 0 | 3 | 70  | 7,806                   | 4 | 0 | 4 | 75  | 7,905                   | 4 | 0 | 4 | 76  |
| P13            | 30        | 1300          | 128W         | T1S        | 14,438                  | 3 | 0 | 3 | 113 | 15,554                  | 3 | 0 | 3 | 122 | 15,751                  | 3 | 0 | 3 | 123 |
|                |           |               |              | T2S        | 14,355                  | 4 | 0 | 4 | 112 | 15,465                  | 4 | 0 | 4 | 121 | 15,660                  | 4 | 0 | 4 | 122 |
|                |           |               |              | T2M        | 14,614                  | 3 | 0 | 3 | 114 | 15,744                  | 4 | 0 | 4 | 123 | 15,943                  | 4 | 0 | 4 | 125 |
|                |           |               |              | T3S        | 14,132                  | 4 | 0 | 4 | 110 | 15,224                  | 4 | 0 | 4 | 119 | 15,417                  | 4 | 0 | 4 | 120 |
|                |           |               |              | T3M        | 14,606                  | 4 | 0 | 4 | 114 | 15,735                  | 4 | 0 | 4 | 123 | 15,934                  | 4 | 0 | 4 | 124 |
|                |           |               |              | T4M        | 14,330                  | 4 | 0 | 4 | 112 | 15,438                  | 4 | 0 | 4 | 121 | 15,633                  | 4 | 0 | 4 | 122 |
|                |           |               |              | TFTM       | 14,701                  | 4 | 0 | 4 | 115 | 15,836                  | 4 | 0 | 4 | 124 | 16,037                  | 4 | 0 | 4 | 125 |
|                |           |               |              | TSVS       | 14,804                  | 4 | 0 | 1 | 116 | 15,948                  | 4 | 0 | 1 | 125 | 16,150                  | 4 | 0 | 1 | 126 |
|                |           |               |              | T5S        | 14,679                  | 3 | 0 | 1 | 115 | 15,814                  | 3 | 0 | 1 | 124 | 16,014                  | 3 | 0 | 1 | 125 |
|                |           |               |              | T5M        | 14,676                  | 4 | 0 | 2 | 115 | 15,810                  | 4 | 0 | 2 | 124 | 16,010                  | 4 | 0 | 2 | 125 |
|                |           |               |              | TSW        | 14,544                  | 4 | 0 | 3 | 114 | 15,668                  | 4 | 0 | 3 | 122 | 15,866                  | 4 | 0 | 3 | 124 |
|                |           |               |              | BLC        | 7,919                   | 3 | 0 | 3 | 62  | 8,531                   | 3 | 0 | 3 | 67  | 8,639                   | 3 | 0 | 3 | 67  |
|                |           |               |              | LCCO       | 5,145                   | 1 | 0 | 2 | 40  | 5,543                   | 1 | 0 | 2 | 43  | 5,613                   | 1 | 0 | 2 | 44  |
|                |           |               |              |            | 5,139                   | 3 | 0 | 3 | 40  | 5,536                   | 3 | 0 | 3 | 43  | 5,606                   | 3 | 0 | 3 | 44  |



## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a [shaded background](#). DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a [shaded background](#)<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.

2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire.

Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft<sup>2</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

### nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### WARRANTY

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



COMMERCIAL OUTDOOR

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## FEATURES & SPECIFICATIONS

**INTENDED USE** — These specifications are for USA standards only. Check with factory for Canadian specifications. Square Straight Steel is a general purpose light pole for up to 39-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

**CONSTRUCTION** — **Pole Shaft:** The pole shaft is of uniform dimension and wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 55 KSI (11-gauge, .1196"), or 50 KSI (7-gauge, .1793"). Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5" and 6".

**Pole Top:** A flush non-metallic black top cap is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with PT option.

**Handhole:** A reinforced handhole with grounding provision is provided at 18" from the base on side A. Positioning the handhole lower may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole has a nominal dimension of 2.5" x 5".

**Base Cover:** A durable ABS plastic two-piece full base cover, finished to match the pole, is provided with each pole assembly. Additional base cover options are available upon request.

**Anchor Base/ Bolts:** Anchor base is fabricated from steel that meets ASTM A36 standards and can be altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to ASTM F1554 Standards grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Top threaded portion (nominal 12") is hot-dipped galvanized per ASTM A-153.

**HARDWARE** — All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

**FINISH** — Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**NOTE:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

|                |
|----------------|
| Catalog Number |
| Notes          |
| Type           |



### Anchor Base Poles

# SSS

### SQUARE STRAIGHT STEEL

SSS Square Straight Steel Poles

ORDERING INFORMATION      Lead times will vary depending on options selected. Consult with your sales representative.      Example: SSS 20 5C DM19 DDB

| SSS    |  |   |   |                                  |   |  |
|--------|--|---|---|----------------------------------|---|--|
| Series | Nominal fixture mounting height  | Nominal shaft base size/wall thickness¹ | Mounting²   |                                  | Options   | Finish¹⁰   |
| SSS    | 10'-39' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.)<br><br>See technical information table for complete ordering information.) | 4C 4" 11g (.1196")                      | Tenon mounting                                    | AERIS™ Suspend drill mounting³,⁴ | Shipped installed   | Standard colors  |
|        |  | 4G 4" 7g (.1793")                       | PT Open top (includes top cap)                    | DM19AST_ 1 at 90°                | L/AB Less anchor bolts (Include when anchor bolts are not needed) | DDBXD Dark bronze  |
|        |  | 5C 5" 11g (.1196")                      | T20 2-3/8" O.D. (2" NPS)                          | DM28AST_ 2 at 180°               | VD Vibration damper   | DWHXD White  |
|        |  | 5G 5" 7g (.1793")                       | T25 2-7/8" O.D. (2-1/2" NPS)                      | DM29AST_ 2 at 90°                | TP Tamper resistant handhole cover fasteners                      | DBLXD Black  |
|        |  | 6G 6" 7g (.1793")                       | T30 3-1/2" O.D. (3" NPS)                          | DM39AST_ 3 at 90°                | HAxy Horizontal arm bracket (1 fixture)⁵,⁶                        | DMBXD Medium bronze  |
|        |  |   | T35 4" O.D. (3-1/2" NPS)                          | DM49AST_ 4 at 90°                | FDLxy Festoon outlet less electrical⁵                             | DNAXD Natural aluminum   |
|        |  |   | KAC/KAD/KSE/KSF/KVR/KVE Drill mounting³           | OMERO™ Suspend drill mounting³,⁴ |   | Classic colors   |
|        |  |   | DM19 1 at 90°                                     | DM19MRT_ 1 at 90°                | CPL12/xy 1/2" coupling⁵   | DSS Sandstone  |
|        |  |   | DM28 2 at 180°                                    | DM28MRT_ 2 at 180°               | CPL34/xy 3/4" coupling⁵   | DGC Charcoal gray  |
|        |  |   | DM28 PL 2 at 180° with one side plugged           | DM29MRT_ 2 at 90°                | CPL1/xy 1" coupling⁵  | DTG Tennis green   |
|        | See technical information table for complete ordering information.)  |   | DM29 2 at 90°                                     | DM39MRT_ 3 at 90°                | NPL12/xy 1/2" threaded nipple⁵                                    | DBR Bright red   |
|        |  |   | DM39 3 at 90°                                     | DM49MRT_ 4 at 90°                | NPL34/xy 3/4" threaded nipple⁵                                    | DSB Steel blue   |
|        |  |   | DM49 4 at 90°                                     |                                  | NPL1/xy 1" threaded nipple⁵                                       | Architectural Colors and Special Finishes¹¹  |
|        |  |   | CSX/DSX/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting³ |                                  | EHHxy Extra handhole⁵,⁷   | Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available. |
|        |  |   | DM19AS 1 at 90°                                   |                                  | MAEX Match existing⁸  |  |
|        |  |   | DM28AS 2 at 180°                                  |                                  | USPOM United States point of manufacture⁹                         |  |
|        |  |   | DM29AS 2 at 90°                                   |                                  | IC Interior coating¹⁰   |  |
|        |  |   | DM39AS 3 at 90°                                   |                                  | UL UL listed with label (Includes NEC compliant cover)            |  |
|        |  |   | DM49AS 4 at 90°                                   |                                  | NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled)       |  |
|        |  |   | RAD drill mounting³                               |                                  | Shipped separately (replacement kit available)                    |  |
|        |  |   | DM19RAD 1 at 90°                                  |                                  | (blank) FBC Full base cover (plastic)                             |  |
|        |  |   | DM28RAD 2 at 180°                                 |                                  | (blank) TC Top cap  |  |
|        |  |   | DM29RAD 2 at 90°                                  |                                  | (blank) HHC Handhole cover  |  |
|        |  |   | DM32RAD 3 at 120°                                 |                                  |   |  |
|        |  |   | DM39RAD 3 at 90°                                  |                                  |   |  |
|        |  |   | DM49RAD 4 at 90°                                  |                                  |   |  |
|        |  |   |   |                                  |   |  |
|        |  |   |   |                                  |   |  |
|        |  |   |   |                                  |   |  |
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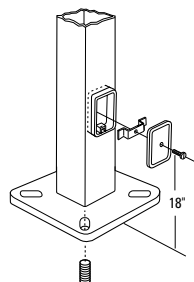
- NOTES:  
1. Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.1196" | "G" - 0.1793".  
2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.  
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.  
4. Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
5. Specify location and orientation when ordering option.  
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".  
Example: 5ft = 5 and 20ft 3in = 20-3  
For "y": Specify orientation from handhole (A,B,C,D)  
Refer to the Handhole Orientation diagram below.  
Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C  
6. Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arm at the same height, specify with HAXxy. Example: HA20BD.
7. Combination of tenon-top and drill mount includes extra handhole.  
8. Must add original order number of existing pole(s).  
9. Use when mill certifications are required.  
10. Provides enhanced corrosion resistance.  
11. Additional colors available; see [www.lithonia.com/archcolors](http://www.lithonia.com/archcolors) or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

# SSS Square Straight Steel Poles

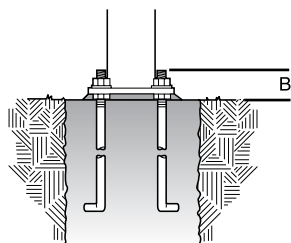
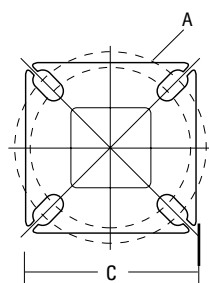
| TECHNICAL INFORMATION — EPA (ft <sup>2</sup> ) with 1.3 gust |                             |  |                 |       |                                      |             |        |             |         |             |                  |                             |                                |
|--|-----------------------------|--|-----------------|-------|--------------------------------------|-------------|--------|-------------|---------|-------------|------------------|-----------------------------|--------------------------------|
| Catalog Number   | Nominal Shaft Length (ft.)* | Pole Shaft Size (Base in. x Top in. x ft.) | Wall thick (in) | Gauge | EPA (ft <sup>2</sup> ) with 1.3 gust |             |        |             |         |             | Bolt circle (in) | Bolt size (in. x in. x in.) | Approximate ship weight (lbs.) |
|  |                             |  |                 |       | 80 MPH                               | Max. weight | 90 MPH | Max. weight | 100 MPH | Max. weight |                  |                             |                                |
| SSS 10 4C  | 10                          | 4.0 x 10.0                                 | 0.1196          | 11    | 30.6                                 | 765         | 23.8   | 595         | 18.9    | 473         | 8-9              | 3/4 x 18 x 3                | 75                             |
| SSS 12 4C  | 12                          | 4.0 x 12.0                                 | 0.1196          | 11    | 24.4                                 | 610         | 18.8   | 470         | 14.8    | 370         | 8-9              | 3/4 x 18 x 3                | 90                             |
| SSS 14 4C  | 14                          | 4.0 x 14.0                                 | 0.1196          | 11    | 19.9                                 | 498         | 15.1   | 378         | 11.7    | 293         | 8-9              | 3/4 x 18 x 3                | 100                            |
| SSS 16 4C  | 16                          | 4.0 x 16.0                                 | 0.1196          | 11    | 15.9                                 | 398         | 11.8   | 295         | 8.9     | 223         | 8-9              | 3/4 x 18 x 3                | 115                            |
| SSS 18 4C  | 18                          | 4.0 x 18.0                                 | 0.1196          | 11    | 12.6                                 | 315         | 9.2    | 230         | 6.7     | 168         | 8-9              | 3/4 x 18 x 3                | 125                            |
| SSS 20 4C  | 20                          | 4.0 x 20.0                                 | 0.1196          | 11    | 9.6                                  | 240         | 6.7    | 167         | 4.5     | 150         | 8-9              | 3/4 x 18 x 3                | 140                            |
| SSS 20 4G  | 20                          | 4.0 x 20.0                                 | 0.1793          | 7     | 14                                   | 350         | 11     | 275         | 8       | 200         | 8-9              | 3/4 x 30 x 3                | 198                            |
| SSS 20 5C  | 20                          | 5.0 x 20.0                                 | 0.1196          | 11    | 17.7                                 | 443         | 12.7   | 343         | 9.4     | 235         | 10-12            | 1 x 36 x 4                  | 185                            |
| SSS 20 5G  | 20                          | 5.0 x 20.0                                 | 0.1793          | 7     | 28.1                                 | 703         | 21.4   | 535         | 16.2    | 405         | 10-12            | 1 x 36 x 4                  | 265                            |
| SSS 25 4C  | 25                          | 4.0 x 25.0                                 | 0.1196          | 11    | 4.8                                  | 150         | 2.6    | 100         | 1       | 50          | 8-9              | 3/4 x 18 x 3                | 170                            |
| SSS 25 4G  | 25                          | 4.0 x 25.0                                 | 0.1793          | 7     | 10.8                                 | 270         | 7.7    | 188         | 5.4     | 135         | 8-9              | 3/4 x 30 x 3                | 245                            |
| SSS 25 5C  | 25                          | 5.0 x 25.0                                 | 0.1196          | 11    | 9.8                                  | 245         | 6.3    | 157         | 3.7     | 150         | 10-12            | 1 x 36 x 4                  | 225                            |
| SSS 25 5G  | 25                          | 5.0 x 25.0                                 | 0.1793          | 7     | 18.5                                 | 463         | 13.3   | 333         | 9.5     | 238         | 10-12            | 1 x 36 x 4                  | 360                            |
| SSS 30 4G  | 30                          | 4.0 x 30.0                                 | 0.1793          | 7     | 6.7                                  | 168         | 4.4    | 110         | 2.6     | 65          | 8-9              | 3/4 x 30 x 3                | 295                            |
| SSS 30 5C  | 30                          | 5.0 x 30.0                                 | 0.1196          | 11    | 4.7                                  | 150         | 2      | 50          | --      | --          | 10-12            | 1 x 36 x 4                  | 265                            |
| SSS 30 5G  | 30                          | 5.0 x 30.0                                 | 0.1793          | 7     | 10.7                                 | 267         | 6.7    | 167         | 3.9     | 100         | 10-12            | 1 x 36 x 4                  | 380                            |
| SSS 30 6G  | 30                          | 6.0 x 30.0                                 | 0.1793          | 7     | 19                                   | 475         | 13.2   | 330         | 9       | 225         | 11-13            | 1 x 36 x 4                  | 520                            |
| SSS 35 5G  | 35                          | 5.0 x 35.0                                 | 0.1793          | 7     | 5.9                                  | 150         | 2.5    | 100         | --      | --          | 10-12            | 1 x 36 x 4                  | 440                            |
| SSS 35 6G  | 35                          | 6.0 x 35.0                                 | 0.1793          | 7     | 12.4                                 | 310         | 7.6    | 190         | 4.2     | 105         | 11-13            | 1 x 36 x 4                  | 540                            |
| SSS 39 6G  | 39                          | 6.0 x 39.0                                 | 0.1793          | 7     | 7.2                                  | 180         | 3      | 75          | --      | --          | 11-13            | 1 x 36 x 4                  | 605                            |

\* EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

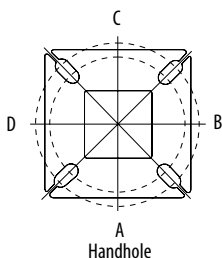
## BASE DETAIL



| POLE DATA       |               |                   |                 |                      |                      |                         |                                 |                         |
|-----------------|---------------|-------------------|-----------------|----------------------|----------------------|-------------------------|---------------------------------|-------------------------|
| Shaft base size | Bolt circle A | Bolt projection B | Base diameter C | Base plate thickness | Template description | Anchor bolt description | Anchor bolt and template number | Anchor bolt description |
| 4"C             | 8" - 9"       | 3.25" - 3.75"     | 8" - 8.25"      | 0.75"                | ABTEMPLATE PJ50004   | AB18-0                  | ABSSS-4C                        | 3/4"x18"x3"             |
| 4"G             | 8" - 9"       | 3.38" - 3.75"     | 8" - 8.25"      | 0.875"               | ABTEMPLATE PJ50004   | AB30-0                  | ABSSS-4G                        | 3/4"x30"x3"             |
| 5"              | 10" - 12"     | 3.5" - 4"         | 11"             | 1"                   | ABTEMPLATE PJ50010   | AB36-0                  | ABSSS-5                         | 1"x36"x4"               |
| 6"              | 11" - 13"     | 4" - 4.50"        | 12.5"           | 1"                   | ABTEMPLATE PJ50011   | AB36-0                  | N/A                             | 1"x36"x4"               |



## HANDHOLE ORIENTATION



Default DM19 is on side B.

## IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.





# VCPG LED Parking Garage

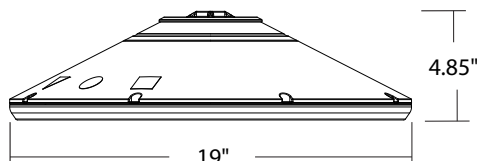
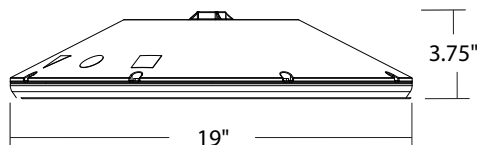


## Specifications

**Diameter:** 19"

**Height:** 3.75"  
(4.85" with Up-Light)

**Weight** 18 lbs  
(max, with no options):



A+ Capable options indicated by this color background.

Catalog  
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

## Introduction

The all new VCPG LED (Visually Comfortable Parking Garage) luminaire is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCPG LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixilation and delivers the required minimums, verticals and uniformity. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

The VCPG LED delivers up to 87% in energy savings when replacing 175W metal halide luminaires. With over 100,000 hour life expectancy (12+ years of 24/7 continuous operation), the VCPG LED luminaire provides significant maintenance savings over traditional luminaires.

## Ordering Information

**EXAMPLE: VCPG LED V4 P4 40K 70CRI T5M MVOLT SRM DNAXD**

| VCPG LED |                                 |                 |                   |                       |                                      |         |  |
|----------|---------------------------------|-----------------|-------------------|-----------------------|--------------------------------------|---------|--|
| Series   | LED Light Engines               | Package         | Color temperature | Color Rendering Index | Distribution                         | Voltage | Mounting   |
| VCPG LED | V4 <sup>1</sup> 4 Light Engines | P1 <sup>1</sup> | 30K 3000 K        | 70CRI                 | T5M Type V, medium                   | MVOLT   | <b>Shipped included</b><br>PM Pendant mount standard (24-inch length supply leads)<br>SRM Surface mount (24-inch length supply leads)<br>ARM Arm mount (use RSXWBA accessory to mount to a wall)<br><br><b>Shipped separately</b><br>YK Yoke/trunnion mount <sup>3</sup> |
|          | V8 <sup>1</sup> 8 Light Engines | P2 <sup>1</sup> | 35K 3500 K        | 80CRI                 | T5R <sup>2</sup> Type V, rectangular | 347 120 |  |
|          |                                 | P3 <sup>1</sup> | 40K 4000 K        |                       | T5W Type V, wide                     | 480 208 |  |
|          |                                 | P4 <sup>1</sup> | 50K 5000 K        |                       | T5E Type V entry                     | 240 277 |  |
|          |                                 | P5 <sup>1</sup> |                   |                       | LANE <sup>2</sup> Drive lane         | 347 480 |  |
|          |                                 | P6 <sup>1</sup> |                   |                       |                                      |         |  |
|          |                                 | P7 <sup>1</sup> |                   |                       |                                      |         |  |

| Options   |  |  | Finish (required)   |
|---|--|--|---|
| <b>Shipped installed</b><br>UPL1 Up-Light: 500 lumens<br>UPL2 Up-Light: 700 lumens<br>E8WC Emergency battery backup, Certified in CA Title 20 MAEDBS (8W, -20°C min) <sup>4,5,6</sup><br>E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min) <sup>4,5,6</sup><br>HA High ambient (50°C, only P1-P4)<br>SF Single fuse (120V, 277V, 347V)<br>DF Double fuse (208V, 240V, 480V)<br>SPD10KV 10KV Surge Pack<br>LDS36 36in (3ft) lead length<br>LDS72 72in (6ft) lead length<br>LDS108 108in (9ft) lead length<br>DMG External 0-10V leads (no controls) <sup>7</sup><br><b>Shipped Separately</b><br>WG Wire Guard<br>BDS Bird Shroud<br>HS House Side Shield   |  |  | DWHXD White<br>DNAXD Natural aluminum<br>DDBXD Dark bronze<br>DBLXD Black |
| <b>Standalone Sensors/Controls<sup>2</sup></b><br>PIR Motion/ambient sensor for 8-15' mounting heights<br>PIRH Motion/ambient sensor for 15-30' mounting heights<br>PIR3FC3V Motion/ambient sensor for 8-15' mounting heights, pre programmed to 3fc and 35% light output<br>PIRH3FC3V Motion/ambient sensor for 15-30' mounting heights, pre programmed to 3fc and 35% light output<br>PIR3FC3V924 UL924 Listed motion/ambient sensor for emergency circuit for 8-15' mounting heights, pre programmed to 3fc and 35% light output <sup>8</sup><br>PIRH3FC3V924 UL924 Listed motion/ambient sensor for emergency circuit for 15-30' mounting heights, pre programmed to 3fc and 35% light output <sup>8</sup><br><b>Networked Sensors/Controls<sup>2</sup></b><br>NLTAIR2 PIR nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights<br>NLTAIR2 PIRH nLIGHT AIR Wireless enabled motion/ambient sensor for 15-30' mounting heights<br>NLTAIR2 PIR924 nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights <sup>9</sup><br>NLTAIR2 PIRH924 nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights <sup>9</sup><br>XAD XPoint™ Wireless enabled <sup>10</sup><br>XAD924 XPoint™ Wireless enabled, UL 924 Listed for emergency circuit <sup>8,10</sup><br>XAD PIR XPoint™ Wireless enabled motion/ambient sensor for 8-15' mounting heights<br>XAD PIRH XPoint™ Wireless enabled motion/ambient sensor for 15-30' mounting heights<br>XAD924 PIR XPoint™ Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights <sup>8</sup><br>XAD924 PIRH XPoint™ Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights <sup>8</sup> |  |  |   |



## Ordering Information Cont.

### Accessories

Ordered and shipped separately.

|                     |   |
|---------------------|---|
| VCPGBDS DWXHD U     | Bird shroud for PM (specify finish)               |
| VCPGBDS YK DWXHD U  | Bird shroud for YK (specify finish)               |
| VCPGUBDS DWXHD U    | Bird shroud for PM with Up-Light (specify finish) |
| VCPGUBDS YK DWXHD U | Bird shroud for YK with Up-Light (specify finish) |
| VCPGSRM U           | Surface mount kit, with no Up-Light               |
| VCPGSRM U           | Surface mount kit, with Up-Light                  |
| VCPGWG U            | Wire guard  |
| SLVSQ               | Quick mount pendant swivel kit, square            |
| SLVRD               | Quick mount pendant swivel kit, round             |
| VCPG YK DWXHD U     | Yoke mount kit (specify finish)                   |
| RSXWBA DWXHD U      | RSX WBA wall bracket (specify finish)             |

### NOTES

- 1 P1-P6 not available with V8. P7 not available with V4.
- 2 Not available with P7.
- 3 Only vertical height adjustment. No angle adjustment. Use PM and SLVSQ or SLVRD for mounting to angled ceiling or canopies.
- 4 Not available with 347V or 480V.
- 5 E8WC and E10WH only rated up to 35°C ambient.
- 6 E8WC & E10WH only available with P1-P4 packages.
- 7 DMG option not available with standalone or networked sensors/controls.
- 8 Power interruption delay >30 milliseconds required for operation. Refer sequence of operations on page 4 for more details. BDS not available with UPL1 or UPL2.
- 9 Not available with P6 & P7. Power interruption delay >200 milliseconds required for operation. Refer sequence of operations on page 4 for more details.
- 10 XAD & XAD924 not available with PIR3FC3V924 and PIRH3FC3V924.

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Performance Package | Watts | Distribution Type | 30K (3000K, 70 CRI) |     | 35K (3500K, 70 CRI) |     | 40K (4000K, 70 CRI) |     | 50K (5000K, 70 CRI) |     |
|---------------------|-------|-------------------|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|
|                     |       |                   | Lumens              | LPW | Lumens              | LPW | Lumens              | LPW | Lumens              | LPW |
| P1                  | 27W   | TSE               | 3,581               | 135 | 3,670               | 138 | 3,815               | 144 | 3,876               | 146 |
|                     |       | TSM               | 3,620               | 136 | 3,710               | 140 | 3,856               | 145 | 3,917               | 147 |
|                     |       | TSW               | 3,592               | 135 | 3,681               | 139 | 3,827               | 144 | 3,888               | 146 |
|                     |       | TSR               | 3,464               | 130 | 3,550               | 134 | 3,690               | 139 | 3,749               | 141 |
|                     |       | LANE              | 3,507               | 132 | 3,594               | 135 | 3,736               | 141 | 3,796               | 143 |
| P2                  | 34W   | TSE               | 4,577               | 135 | 4,691               | 138 | 4,876               | 144 | 4,954               | 146 |
|                     |       | TSM               | 4,626               | 136 | 4,741               | 140 | 4,928               | 145 | 5,007               | 147 |
|                     |       | TSW               | 4,591               | 135 | 4,705               | 139 | 4,891               | 144 | 4,968               | 146 |
|                     |       | TSR               | 4,427               | 130 | 4,537               | 134 | 4,716               | 139 | 4,791               | 141 |
|                     |       | LANE              | 4,482               | 132 | 4,594               | 135 | 4,775               | 141 | 4,851               | 143 |
| P3                  | 43W   | TSE               | 5,808               | 134 | 5,952               | 137 | 6,187               | 143 | 6,286               | 145 |
|                     |       | TSM               | 5,870               | 135 | 6,015               | 139 | 6,253               | 144 | 6,353               | 146 |
|                     |       | TSW               | 5,825               | 134 | 5,970               | 138 | 6,205               | 143 | 6,304               | 145 |
|                     |       | TSR               | 5,617               | 130 | 5,757               | 133 | 5,984               | 138 | 6,079               | 140 |
|                     |       | LANE              | 5,688               | 131 | 5,829               | 134 | 6,059               | 140 | 6,155               | 142 |
| P4                  | 56W   | TSE               | 7,391               | 131 | 7,575               | 135 | 7,874               | 140 | 7,999               | 142 |
|                     |       | TSM               | 7,470               | 133 | 7,656               | 136 | 7,958               | 141 | 8,085               | 144 |
|                     |       | TSW               | 7,414               | 132 | 7,597               | 135 | 7,898               | 140 | 8,023               | 143 |
|                     |       | TSR               | 7,149               | 127 | 7,326               | 130 | 7,615               | 135 | 7,737               | 137 |
|                     |       | LANE              | 7,238               | 129 | 7,418               | 132 | 7,711               | 137 | 7,834               | 139 |
| P5                  | 82W   | TSE               | 10,189              | 124 | 10,442              | 127 | 10,854              | 132 | 11,027              | 134 |
|                     |       | TSM               | 10,298              | 125 | 10,553              | 128 | 10,970              | 134 | 11,145              | 136 |
|                     |       | TSW               | 10,220              | 124 | 10,473              | 128 | 10,887              | 133 | 11,060              | 135 |
|                     |       | TSR               | 9,855               | 120 | 10,099              | 123 | 10,498              | 128 | 10,665              | 130 |
|                     |       | LANE              | 9,978               | 121 | 10,226              | 124 | 10,629              | 129 | 10,799              | 131 |
| P6                  | 108W  | TSE               | 12,878              | 120 | 13,197              | 123 | 13,719              | 127 | 13,937              | 129 |
|                     |       | TSM               | 13,015              | 121 | 13,338              | 124 | 13,865              | 129 | 14,086              | 131 |
|                     |       | TSW               | 12,917              | 120 | 13,237              | 123 | 13,760              | 128 | 13,979              | 130 |
|                     |       | TSR               | 12,455              | 116 | 12,764              | 119 | 13,268              | 123 | 13,480              | 125 |
|                     |       | LANE              | 12,611              | 117 | 12,924              | 120 | 13,435              | 125 | 13,649              | 127 |
| P7                  | 122W  | TSE               | 15,503              | 125 | 15,887              | 128 | 16,515              | 133 | 16,778              | 135 |
|                     |       | TSM               | 15,668              | 126 | 16,057              | 129 | 16,691              | 135 | 16,957              | 137 |
|                     |       | TSW               | 15,549              | 125 | 15,935              | 129 | 16,564              | 134 | 16,828              | 136 |

### Up-light Lumen Output

| Up-light Option | Watts | Lumens |
|-----------------|-------|--------|
| UPL1            | 6.5W  | 519    |
| UPL2            | 8.5W  | 715    |

### Lumen Multiplier for 80CRI

| CCT | Multiplier |
|-----|------------|
| 30K | 0.926      |
| 35K | 0.945      |
| 40K | 0.967      |
| 50K | 0.965      |

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient    | Lumen Multiplier |
|------------|------------------|
| 0°C 32°F   | 1.03             |
| 10°C 50°F  | 1.02             |
| 20°C 68°F  | 1.01             |
| 25°C 77°F  | 1                |
| 30°C 86°F  | 0.99             |
| 40°C 104°F | 0.98             |

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours          | 0   | 25,000 | 50,000 | 100,000 |
|--------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | 0.97   | 0.94   | 0.89    |

### Electrical Load

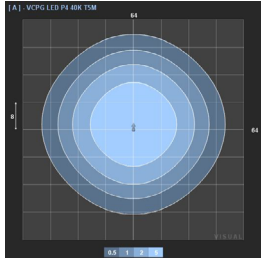
| Power Package | System Watts | Current (A) |      |      |      |      |      |
|---------------|--------------|-------------|------|------|------|------|------|
|               |              | 120V        | 208V | 240V | 277V | 347V | 480V |
| P1            | 27W          | 0.22        | 0.13 | 0.12 | 0.10 | 0.08 | 0.06 |
| P2            | 34W          | 0.28        | 0.16 | 0.14 | 0.13 | 0.10 | 0.08 |
| P3            | 43W          | 0.37        | 0.21 | 0.18 | 0.16 | 0.13 | 0.09 |
| P4            | 56W          | 0.48        | 0.28 | 0.24 | 0.21 | 0.16 | 0.12 |
| P5            | 82W          | 0.68        | 0.40 | 0.35 | 0.30 | 0.24 | 0.18 |
| P6            | 108W         | 0.91        | 0.52 | 0.45 | 0.39 | 0.32 | 0.23 |
| P7            | 124W         | 1.03        | 0.59 | 0.51 | 0.44 | 0.37 | 0.27 |



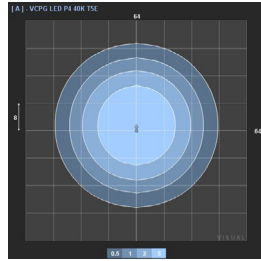
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the [Lithonia Lighting VCPG LED homepage](#).  
Tested in accordance with IESNA LM-79 and LM-80 standards

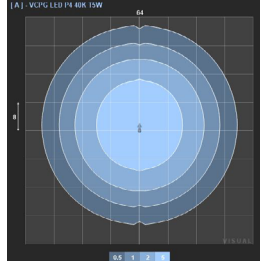
VCPG LED P4 T5M 40K



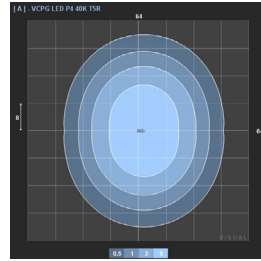
VCPG LED P4 T5E 40K



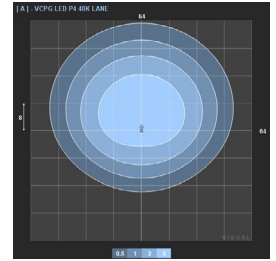
VCPG LED P4 T5W 40K



VCPG LED P4 T5R 40K



VCPG LED P4 LANE 40K



## Control/Sensor Options

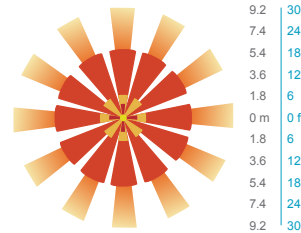
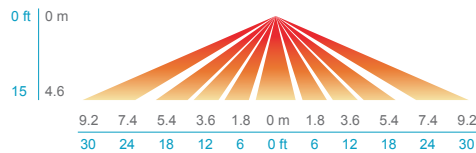
### Motion/Ambient Sensor (PIR, PIRH)

Motion/Ambient sensor (Sensor Switch MSOD, Xpoint MSOD) is integrated into the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

### Networked Control (NLTAIR2)

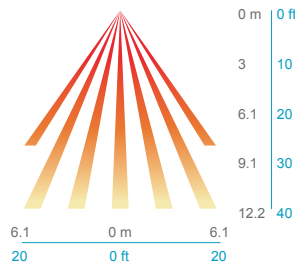
nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

#### PIR HIGH VIEW

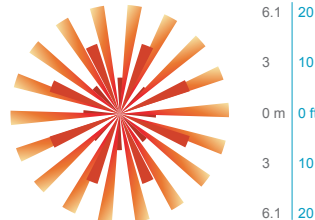


#### PIRH

#### SIDE VIEW



#### TOP VIEW



## Motion/Ambient Sensor Default Settings

| Option                | Dim Level   | High Level (when triggered) | Photocell Operation | Motion Time Delay | Ramp-down Time | Ramp-up Time                         |
|-----------------------|---|-----------------------------|---------------------|-------------------|----------------|--------------------------------------|
| PIR or PIRH           | Motion - 3V (37% of full output)<br>Photocell - 0V (turned off) | 10V (100% output)           | Enabled @ 5fc       | 5 min             | 5 min          | Motion - 3 sec<br>Photocell - 45 sec |
| PIR3FC3V or PIRH3FC3V | Motion - 3V (37% of full output)<br>Photocell - 0V (turned off) | 10V (100% output)           | Enabled @ 3fc       | 5 min             | 5 min          | Motion - 3 sec<br>Photocell - 45 sec |

## Sequence of Operations for UL924 Listed Controls/Sensors

### (PIR3FC3V924, PIRH3FC3V924, XAD924, NLTAIR2 PIR924, NLTAIR2 PIRH924)

The UL924 listed control/sensor ("device") is designed to provide full light output for 90 minutes following power loss ("Egress Mode"), ignoring both manual and automatic dimming/occupancy/daylight control signals during this time. The sequence of operations is as follows:

- Normal condition: device can dim and turn off the luminaire as normal, in response to automatic and manual control.
- Utility power fails, and luminaire loses power.
- Backup power source activates, transfer switch moves the emergency circuit powering the luminaire onto the backup source, and luminaire regains power.
- The device detects this power interruption, if it is >30ms (for PIR3FC3V924, PIRH3FC3V924, XAD924) or >200ms (for NLTAIR2 PIR924, NLTAIR2 PIRH924).
- The device ignores all dimming commands and controls the driver to full light output for 90 minutes.
- The device resumes normal dimming controls after 90 minutes.

These UL924 listed controls/sensors are not intended for use with Non-interruptible central emergency power systems. The power interruption, when transferring from normal utility power to emergency backup power, is required for the controller to activate its Egress Mode and provide full light output.



## Mounting, Options & Accessories



**PM – Pendant Mount**  
(compatible with 3/4" NPT,  
pendant stem provided by  
others)

D = 19"  
H = 4.1"



**SRM – Surface Mount**

D = 19"  
H = 4.1"



**SRM – Surface Mount  
with Up-Light**

D = 19"  
H = 5.3"



**YK – Yoke/Trunnion Mount**

D = 19"  
H (Yoke) = 10"-18"



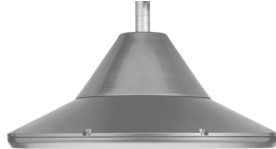
**ARM – Arm Mount**

L = 28"  
W = 19"  
H = 8"



**PIR & PIRH – Motion/  
Ambient sensor**

D = 19"  
H = 4.6" (no up-light)  
or 5.6" (with up-light)



**BDS – Bird shroud for  
pendant mount**

D = 19"  
H = 8"



**BDS – Bird shroud for  
yoke mount**

D = 19"  
H (Yoke) = 10"-18"



**WG – Wire guard**

D = 19"  
H = 4.9" (no uplight)  
or 5.9" (with up-light)



**HS – House side shield**

D = 19"  
H = 7.1" (no up-light) or  
8.1" (with up-light)

## FEATURES & SPECIFICATIONS

### INTENDED USE

The visually comfortable optics, energy savings, and long life of the VCPG LED Parking Garage luminaire make it an ideal choice for new commercial installations and retrofit parking garage opportunities. It is designed to meet or exceed recommended illuminance criteria when installed as a direct replacement of most HID parking garage luminaires. Its modern dayform and aesthetics also make it appealing for indoor low-bay applications.

### CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is separated from the heat generating light engines and mounted in direct contact with the casting to promote low operating temperatures, higher lumen maintenance and long life. The housing is completely sealed against moisture and environmental contaminants (IP66) and is suitable for hose-down application.

### FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

### OPTICS

Light guide technology provides a diffused light source, reducing glare from direct view of the LEDs. The light source is recessed into the luminaire, further reducing the high angle glare from the luminaire. A combination of precision molded micro prismatic acrylic lenses and back reflectors provide five different photometric distributions tailored specifically to parking garage applications. Up-light option comes with a dedicated light engine and custom optic designed to efficiently spread light on to the ceiling, thus reducing the cave effect.

### ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L89/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 6.0 KV surge rating. When ordering the SPD10KV option, a separate 10kV (5kA) surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Standard configuration accepts a rigid or free-swinging 3/4" NPT stem for pendant mounting. The surface mount option attaches to a 4x4" recessed or surface mount outlet box using a quick-mount kit (included); kit contains galvanized steel luminaire and outlet box plates and a full pad gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and plates are secured with set screws. Also, available with a yoke/trunnion mount option with 3/4" NPT provision for flexible conduit entry (conduit by others); height can be adjusted from 10-18". Supply leads are 24" in length as standard. Longer supply leads are available as additional options. Design can withstand up to a 3.0 G vibration load rating per ANSI C136.31.

### LISTINGS

CSA certified to U.S. and Canadian standards. IP66 rated for outdoor applications. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### WARRANTY

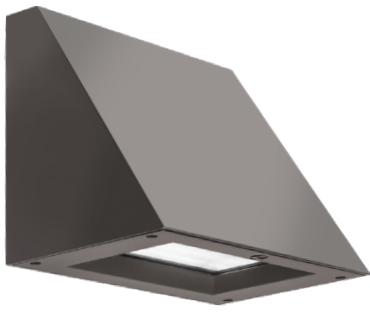
5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.







# WEDGE2 LED

## Architectural Wall Sconce



Catalog  
Number

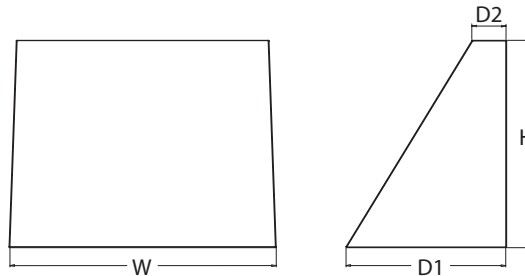
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

### Specifications

**Depth (D1):** 7"  
**Depth (D2):** 1.5"  
**Height:** 9"  
**Width:** 11.5"  
**Weight:** 13.5 lbs  
 (without options)



### Introduction

The WEDGE2 LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WEDGE family provides additional energy savings and code compliance.

WEDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WEDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

### WEDGE LED Family Overview

| Luminaire  | Standard EM, 0°C | Cold EM, -20°C | Sensor              | Lumens (4000K) |        |        |        |        |        |
|------------|------------------|----------------|---------------------|----------------|--------|--------|--------|--------|--------|
|            |                  |                |                     | P1             | P2     | P3     | P4     | P5     | P6     |
| WEDGE1 LED | 4W               | --             | --                  | 1,200          | 2,000  | --     | --     | --     | --     |
| WEDGE2 LED | 10W              | 18W            | Standalone / nLight | 1,200          | 2,000  | 3,000  | 4,500  | 6,000  | --     |
| WEDGE3 LED | 15W              | 18W            | Standalone / nLight | 7,500          | 8,500  | 10,000 | 12,000 | --     | --     |
| WEDGE4 LED | --               | --             | Standalone / nLight | 12,000         | 16,000 | 18,000 | 20,000 | 22,000 | 25,000 |

### Ordering Information

**EXAMPLE: WEDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD**

| Series     | Package         |  | Color Temperature |       | CRI   | Distribution |                              | Voltage          | Mounting                |  |
|------------|-----------------|--|-------------------|-------|-------|--------------|------------------------------|------------------|-------------------------|--|
| WEDGE2 LED | P1 <sup>1</sup> | P1SW   | 27K               | 2700K | 80CRI | VF           | Visual comfort forward throw | MVOLT            | <b>Shipped included</b> | <b>Shipped separately</b>  |
|            | P2 <sup>1</sup> | P2SW   | 30K               | 3000K | 90CRI |              |                              | 347 <sup>3</sup> | SRM                     | AWS 3/8inch Architectural wall spacer                                  |
|            | P3 <sup>1</sup> | P3SW   | 35K               | 3500K |       | VW           | Visual comfort wide          | 480 <sup>3</sup> |                         | BBW Surface-mounted back box   |
|            | P4 <sup>1</sup> | Door with small window (SW) is required to accommodate sensors. See page 2 for more details. | 40K               | 4000K |       |              |                              |                  | ICW                     | PBBW Premium surface-mounted back box (top, left, right conduit entry) |
|            | P5 <sup>1</sup> |  | 50K <sup>2</sup>  | 5000K |       |              |                              |                  |                         |  |

| Options          |   |   | Finish             |                           |
|------------------|---|---|--------------------|---------------------------|
| E4WH             | Emergency battery backup, CEC compliant (4W, 0°C min)   | <b>Standalone Sensors/Controls</b> (only available with P1SW, P2SW & P3SW)<br><br><b>PIR</b> Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.<br><br><b>PIRH</b> Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching<br><br><b>PIR1FC3V</b> Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.<br><br><b>PIRH1FC3V</b> Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation. | DDBXD              | Dark bronze               |
| E10WH            | Emergency battery backup, CEC compliant (10W, 5°C min)  |   | DBLXD              | Black                     |
| E20WC            | Emergency battery backup, CEC compliant (18W, -20°C min)  |   | DNAXD              | Natural aluminum          |
| PE <sup>4</sup>  | Photocell, Button Type  |   | DWHXD              | White                     |
| DS <sup>5</sup>  | Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)                 | <b>Networked Sensors/Controls</b> (only available with P1SW, P2SW & P3SW)<br><br><b>NLTAIR2 PIR</b> nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.<br><br><b>NLTAIR2 PIRH</b> nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.<br><br>See page 4 for out of box functionality  | DSSXD              | Sandstone                 |
| DMG <sup>6</sup> | 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) |   | DDBTXD             | Textured dark bronze      |
| BCE              | Bottom conduit entry for premium back box (PBBW). Total of 4 entry points.                        |   | DBLBXD             | Textured black            |
|                  |   |   | DNATXD             | Textured natural aluminum |
|                  |   |   | DWHGXD             | Textured white            |
|                  |   | DSSTXD  | Textured sandstone |                           |



COMMERCIAL OUTDOOR

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WEDGE2 LED  
 Rev. 04/15/20

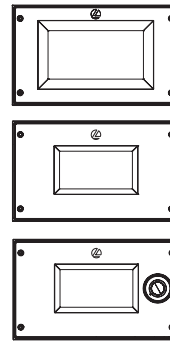
## Accessories

Ordered and shipped separately.

|                   |   |
|-------------------|---|
| WDGEAWS DDBXD U   | WDGE 3/8inch Architectural Wall Spacer (specify finish) |
| WDGE2PBBW DDBXD U | WDGE2 Premium surface-mounted back box (specify finish) |
| WSBBW DDBXD U     | Surface - mounted back box (specify finish)             |

### NOTES

- P1-P5 not available with sensors/controls. Sensors/controls only available with P1SW, P2SW and P3SW.
- 50K not available in 90CRI
- 347V and 480V not available with E4WH, E10WH, E20WC or DS.
- PE not available in 480V or with sensors/controls
- DS option not available with E4WH, E10WH, E20WC or sensors/controls.
- DMG option not available with sensors/controls
- Not qualified for DLC. Not available with emergency battery backup or sensors/controls



Default configuration with no sensors/controls.

Power Packages: P1, P2, P3, P4, P5

Small Window (SW) configuration

Power Packages: P1SW, P2SW, P3SW

Configuration with sensors/controls

Power Packages: P1SW, P2SW, P3SW

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Performance Package | System Watts | Dist. Type | 27K (2700K, 80 CRI) |     |   |   |   | 30K (3000K, 80 CRI) |     |   |   |   | 35K (3500K, 80 CRI) |     |   |   |   | 40K (4000K, 80 CRI) |     |   |   |   | 50K (5000K, 80 CRI) |     |   |   |   |
|---------------------|--------------|------------|---------------------|-----|---|---|---|---------------------|-----|---|---|---|---------------------|-----|---|---|---|---------------------|-----|---|---|---|---------------------|-----|---|---|---|
|                     |              |            | Lumens              | LPW | B | U | G | Lumens              | LPW | B | U | G | Lumens              | LPW | B | U | G | Lumens              | LPW | B | U | G | Lumens              | LPW | B | U | G |
| P1 / P1SW           | 10W          | VF         | 1,166               | 119 | 0 | 0 | 0 | 1,209               | 123 | 0 | 0 | 0 | 1,251               | 128 | 0 | 0 | 0 | 1,256               | 128 | 0 | 0 | 0 | 1,254               | 128 | 0 | 0 | 0 |
|                     |              | VW         | 1,197               | 122 | 0 | 0 | 0 | 1,241               | 126 | 0 | 0 | 0 | 1,284               | 131 | 0 | 0 | 0 | 1,289               | 131 | 0 | 0 | 0 | 1,286               | 131 | 0 | 0 | 0 |
| P2 / P2SW           | 15W          | VF         | 1,878               | 129 | 1 | 0 | 0 | 1,947               | 134 | 1 | 0 | 0 | 2,015               | 139 | 1 | 0 | 0 | 2,023               | 139 | 1 | 0 | 0 | 2,019               | 139 | 1 | 0 | 0 |
|                     |              | VW         | 1,927               | 133 | 1 | 0 | 0 | 1,997               | 137 | 1 | 0 | 0 | 2,067               | 142 | 1 | 0 | 0 | 2,075               | 143 | 1 | 0 | 0 | 2,071               | 143 | 1 | 0 | 0 |
| P3 / P3SW           | 23W          | VF         | 2,908               | 129 | 1 | 0 | 0 | 3,015               | 134 | 1 | 0 | 0 | 3,119               | 138 | 1 | 0 | 0 | 3,132               | 139 | 1 | 0 | 0 | 3,126               | 139 | 1 | 0 | 0 |
|                     |              | VW         | 2,983               | 132 | 1 | 0 | 0 | 3,093               | 137 | 1 | 0 | 0 | 3,200               | 142 | 1 | 0 | 0 | 3,213               | 143 | 1 | 0 | 0 | 3,206               | 142 | 1 | 0 | 0 |
| P4                  | 35W          | VF         | 4,096               | 117 | 1 | 0 | 1 | 4,247               | 121 | 1 | 0 | 1 | 4,394               | 126 | 1 | 0 | 1 | 4,412               | 126 | 1 | 0 | 1 | 4,403               | 126 | 1 | 0 | 1 |
|                     |              | VW         | 4,202               | 120 | 1 | 0 | 0 | 4,357               | 125 | 1 | 0 | 1 | 4,508               | 129 | 1 | 0 | 1 | 4,526               | 129 | 1 | 0 | 1 | 4,517               | 129 | 1 | 0 | 1 |
| P5                  | 48W          | VF         | 5,567               | 115 | 1 | 0 | 1 | 5,772               | 119 | 1 | 0 | 1 | 5,972               | 123 | 1 | 0 | 1 | 5,996               | 124 | 1 | 0 | 1 | 5,984               | 124 | 1 | 0 | 1 |
|                     |              | VW         | 5,711               | 118 | 1 | 0 | 1 | 5,921               | 122 | 1 | 0 | 1 | 6,127               | 126 | 1 | 0 | 1 | 6,151               | 127 | 1 | 0 | 1 | 6,139               | 127 | 1 | 0 | 1 |

### Electrical Load

| Performance Package | System Watts | Current (A) |       |       |       |       |       |
|---------------------|--------------|-------------|-------|-------|-------|-------|-------|
|                     |              | 120V        | 208V  | 240V  | 277V  | 347V  | 480V  |
| P1 / P1SW           | 10W          | 0.082       | 0.049 | 0.043 | 0.038 | --    | --    |
|                     | 13W          | --          | --    | --    | --    | 0.046 | 0.033 |
| P2 / P2SW           | 15W          | 0.132       | 0.081 | 0.072 | 0.064 | --    | --    |
|                     | 18W          | --          | --    | --    | --    | 0.056 | 0.041 |
| P3 / P3SW           | 23W          | 0.195       | 0.114 | 0.100 | 0.088 | --    | --    |
|                     | 26W          | --          | --    | --    | --    | 0.079 | 0.058 |
| P4                  | 35W          | 0.302       | 0.175 | 0.152 | 0.134 | --    | --    |
|                     | 38W          | --          | --    | --    | --    | 0.115 | 0.086 |
| P5                  | 48W          | 0.434       | 0.241 | 0.211 | 0.184 | --    | --    |
|                     | 52W          | --          | --    | --    | --    | 0.157 | 0.119 |

### Lumen Multiplier for 90CRI

| CCT | Multiplier |
|-----|------------|
| 27K | 0.845      |
| 30K | 0.867      |
| 35K | 0.845      |
| 40K | 0.885      |
| 50K | 0.898      |

### Lumen Output in Emergency Mode (4000K, 80 CRI)

| Option | Dist. Type | Lumens |
|--------|------------|--------|
| E4WH   | VF         | 646    |
|        | VW         | 647    |
| E10WH  | VF         | 1,658  |
|        | VW         | 1,701  |
| E20WC  | VF         | 2,840  |
|        | VW         | 2,913  |

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient |       | Lumen Multiplier |
|---------|-------|------------------|
| 0°C     | 32°F  | 1.03             |
| 10°C    | 50°F  | 1.02             |
| 20°C    | 68°F  | 1.01             |
| 25°C    | 77°F  | 1.00             |
| 30°C    | 86°F  | 0.99             |
| 40°C    | 104°F | 0.98             |

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours          | 0   | 25,000 | 50,000 | 100,000 |
|--------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | >0.96  | >0.95  | >0.91   |



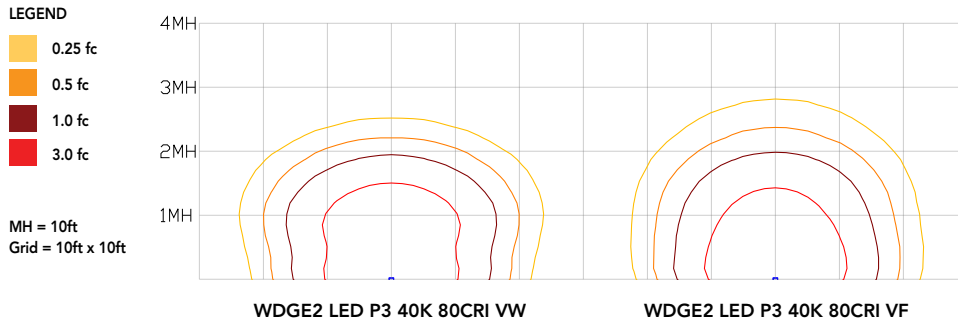
COMMERCIAL OUTDOOR

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WDGE2 LED  
Rev. 04/15/20

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



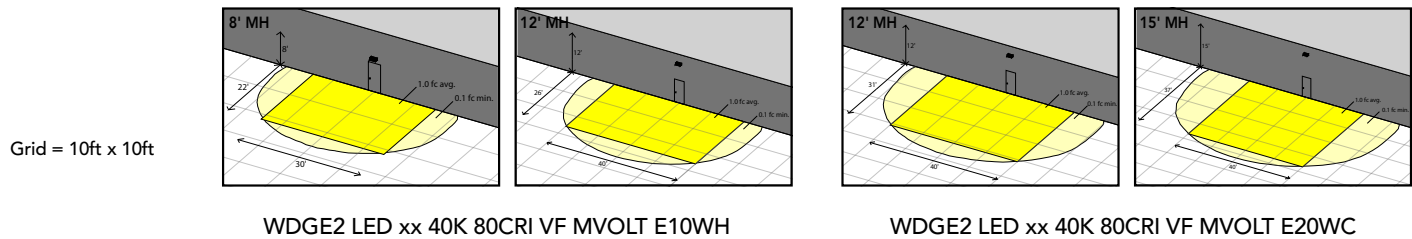
## Emergency Egress Options

### Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

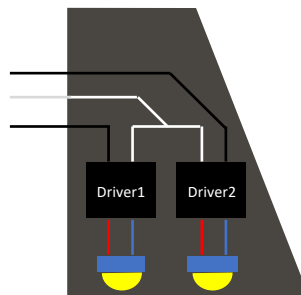
The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.



### Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



### Motion/Ambient Sensor (PIR, PIRH)

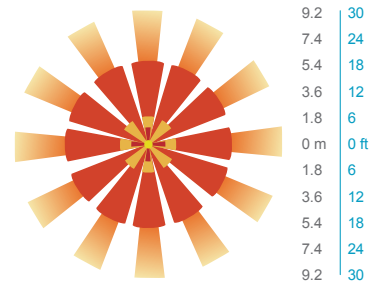
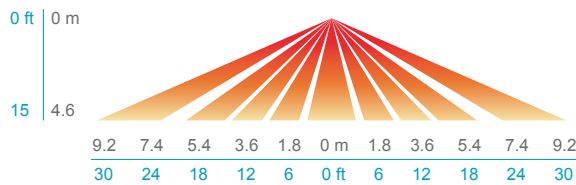
Motion/Ambient sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

### Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

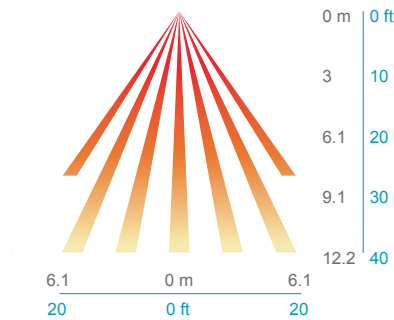
#### PIR

##### HIGH VIEW

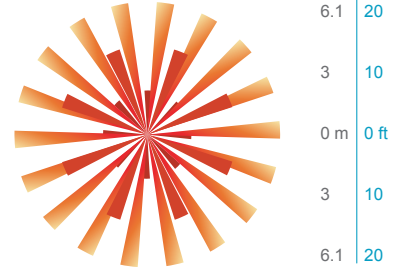


#### PIRH

##### SIDE VIEW



##### TOP VIEW



| Option                                 | Dim Level   | High Level (when triggered) | Photocell Operation | Motion Time Delay | Ramp-down Time | Ramp-up Time                         |
|--|---|-----------------------------|---------------------|-------------------|----------------|--------------------------------------|
| PIR or PIRH                            | Motion - 3V (37% of full output)<br>Photocell - 0V (turned off) | 10V (100% output)           | Enabled @ 5fc       | 5 min             | 5 min          | Motion - 3 sec<br>Photocell - 45 sec |
| PIR1FC3V, PIRH1FC3V                    | Motion - 3V (37% of full output)<br>Photocell - 0V (turned off) | 10V (100% output)           | Enabled @ 1fc       | 5 min             | 5 min          | Motion - 3 sec<br>Photocell - 45 sec |
| NLTAIR2 PIR, NLTAIR2 PIRH (out of box) | Motion - 3V (37% of full output)<br>Photocell - 0V (turned off) | 10V (100% output)           | Enabled @ 5fc       | 7.5 min           | 5 min          | Motion - 3 sec<br>Photocell - 45 sec |





**NLTAIR2 PIR – nLight AIR  
Motion/Ambient Sensor**

D = 7"

H = 11"

W = 11.5"

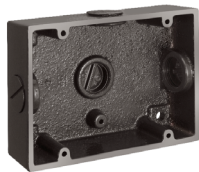


**PBBW – Premium Back Box**

D = 1.75"

H = 9"

W = 11.5"



**BBW – Standard Back Box**

D = 1.5"

H = 4"

W = 5.5"



**AWS – 3/8inch Architectural Wall Spacer**

D = 0.38"

H = 4.4"

W = 7.5"

## FEATURES & SPECIFICATIONS

### INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

### CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

### FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

### OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2).

### INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

### WARRANTY

5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.