



May 11, 2023

Township of West Orange
66 Main Street
West Orange, New Jersey 07052

Re: PB-23-04/Redwood LLC
Block: 151; Lot: 33; Zone: IHO-2/R-2
200 Pleasant Valley Way
Site Plan Review Advisory Board Report
Preliminary & Final Site Plan and Soil Removal Permit – Review #1
CME Associates File No. VWRP0151.02
Petry Project No. 16-0012

To Whom it May Concern:

Petry Engineering has received and reviewed the Site Plan Review Advisory Board Report prepared by Paul Grygiel, AICP, PP, Township Planner and dated April 13, 2023, as well as the Preliminary & Final Site Plan and Soil Removal Permit – Review #1 letter prepared by John J. Hess, PE, PP, CME, Planning Board Engineer and dated April 20, 2023. We have revised our plans based on the comments provided. The following documents are being submitted with this re-submittal:

- Site Plans
- Low Impact Development Checklist
- Light Fixture Cutsheets with Ordering Information
- Solid Waste Management Plan (Prepared by the applicant)

Below are detailed explanations of the changes that have been made to the plans based on the comments provided:

1. SPRAB Report

- Both the entrance and the exit to the proposed building has been revised to eliminate the call box, gate and the turn-around lane that would allow vehicles to exit if they entered the site mistakenly. The removal of these features allows for the creation of an island, which will include an interior driveway sign. The island has been re-worked to ensure that the lanes which serve as the entrance and exit are both 20 feet wide. Appropriate signage has also been added where necessary to ensure the correct flow of traffic.

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- The parking has been revised to show that 15-minute parking and visitor parking has been designated along the parking lot near the main entrance of the building. It is proposed that eleven (11) 15-Minute Parking spots will be located to the left of the ADA-Compliant parking spaces and eight (8) Visitor Parking spots will be located to the right of the handicap parking spaces. Additionally, seven (7) spaces located on the southerly portion of the parking area will be designated as No Overnight Parking. These spaces will be used as loading and unloading for tenants that are moving in/out of the building. It is our understanding that Building Management will place cones in these spots the night before in order to reserve the spots for the moving trucks for tenants. Appropriate signage is also being proposed and details have been provided on SP-13.
- Turning templates have been added to this submittal. Turning movements have been generated for a firetruck, a refuse truck, and a delivery vehicle.
- Sewage and Water Demand Calculations have been added to the plans on sheet SP-4.
- Sheet SP-3 has been revised to include both the existing and proposed FHA lines along with notes stating the respective flood elevations.
- The plans have been revised to include bike racks near the main entrance of the building. These bike racks will be utilized by visitors and tenants will have access to a bike closet located within the building. A detail has been provided for the proposed exterior bike racks.

2. Engineering Review

E. DESIGN COMMENTS

- 1) Based on our review, we find that the following items from the Township Site Plan Checklist must be addressed:
 - a) *Item #20 – Copy and/or delineation of any existing or proposed deed restrictions or covenants*

PETRY RESPONSE: There are no existing or proposed deed restrictions or covenants.

- b) *Item #22 – Development stages or staging plans*

PETRY RESPONSE: The project is not expected to be phased. We anticipate site and building improvements to occur simultaneously.



- c) *Item #25 – Requested or obtained design waivers or exceptions*

PETRY RESPONSE: A list of waivers has been added to the Title Sheet.

- d) *Item #28 – All existing street, water courses, flood plains, wetlands or other environmentally sensitive areas on and within 200' of site*

PETRY RESPONSE: Sheet SP-1 has been revised to show a 200-foot radius around the property on the Aerial Map provided which shows all of the required information.

- e) *Item #46 – Solid waste management plan*

PETRY RESPONSE: A Solid Waste Management Plan has been included in this resubmittal.

- 2) As stipulated in Section 25-13 of the Ordinance, an environmental impact statement must be submitted to the Board.

PETRY RESPONSE: A waiver is hereby being requested for the submission of an Environmental Impact Statement to the Board as the existing property is wholly disturbed, and approval has already been granted by the NJDEP.

- 3) The Applicant has not requested any waivers in support of this application.

PETRY RESPONSE: Waivers in support of this application are being requested within this response letter. A list of these waivers can also be found on sheet SP-1.

- 4) The Applicant has applied for a Soil Removal Permit as part of this application. Therefore, the Applicant must submit to the Board the information stipulated in §30-3.2 of the Ordinance.

PETRY RESPONSE: The plans have been revised to include the information required under this section of the ordinance.

- 5) The pdf copies of the site plan drawings that were submitted to the Board are difficult to read. In the future, the Applicant must submit more legible copies of the plans to the Board.



PETRY RESPONSE: The plans have been revised to be more legible and have been produced as electronic prints in order to preserve the quality of the plans.

- 6) The Applicant should address the Board regarding their plans to provide outdoor bicycle parking at the site as discussed at the Site Plan Review Advisory Board (SPRAB) meeting.

PETRY RESPONSE: The plans have been revised to include outdoor bicycle parking for visitor use. The bicycle parking will be located near the entrance of the proposed building. A Bicycle Rack Detail has also been provided (See Sheet SP-1 and SP-13).

- 7) It shows on the Residential Matrix on sheet A-102 of the architectural plans that 8 units will be 1 bedroom w/ den, 74 units will be 2 bedroom w/ den and 12 units will be 3 bedroom w/ den. The Applicant should address the Board regarding their plans to ensure that the dens will not be converted to bedrooms as additional bedrooms will impact the required parking at the site.

PETRY RESPONSE: Testimony to be provided by the Applicant's Architect.

- 8) It shows on sheet A-101 of the architectural plans that a mail room is proposed inside the building. The Applicant must demonstrate that the West Orange Township Postmaster has approved the use of an indoor mailroom.

PETRY RESPONSE: Testimony to be provided by the Applicant's Architect.

- 9) It shows on sheet SP-2 that a tear drop island is proposed at the entrance to the site. In addition, entrance and exit gates are proposed on either side of the island. The Applicant should provide testimony to the Board regarding how the site circulation is proposed to function.

PETRY RESPONSE: The plans have been revised to eliminate the need for gates at the entrance and exit of the property. The island has been re-designed in order to eliminate the need for the gates (See Sheet SP-2).

- 10) Sheet SP-2 shows that a concrete retaining wall with 4' high fence on top is proposed on the easterly side of Peckman River. However, the Typical Conc. Retaining Wall Detail on sheet SP-16 shows that a handrail is proposed on top of the retaining wall. This discrepancy must be resolved.



PETRY RESPONSE: The Typical Conc. Retaining Wall Detail on Sheet SP-16 has been revised to show a 4-foot chainlink fence on the top.

- 11) Sheets SP-2 & SP-10 should be revised to specify the interior treatment of the tear drop island (pavers, planting bed, etc.).

PETRY RESPONSE: Sheet SP-2 and SP-10 has been revised to show the proposed landscaping for the tear drop shaped island. The landscaping will include tree plantings along with ground cover and annual plantings located behind and around the interior driveway sign.

- 12) The Applicant should address the Board regarding how the entrance and exit gates are intended to function. Will there be a call box which allows the driver to contact a resident to obtain permission to enter the site? Also, will there be designated visitor parking spaces at the site? Finally, details of the proposed gates must be added to the plans.

PETRY RESPONSE: The plans have been revised to eliminate the gates at the entrance and exit tot the site. Eight (8) Designated visitor parking with appropriate signage have been added to the right of the handicap parking located at the entrance to the building. (See SP-2).

- 13) It shows on sheet SP-2 and on sheet A-100 of the architectural plans that electric vehicle charging stations are proposed. Therefore, a detail of the electric vehicle charging equipment must be added to the plans.

PETRY RESPONSE: The plans have been revised to include a detail for the proposed electric vehicle charing equipment (See Sheet SP-13).

- 14) Sheet SP-2 should be revised to dimension the drive aisle widths at the entrance and exit gates.

PETRY RESPONSE: Sheet SP-2 has been revised to include the dimensions of the entrance and exit drive aisles.

- 15) Sheet SP-2 should be revised to dimension the drive aisle width along the westerly side of the building where parking bays are proposed on both sides of the drive aisle.



PETRY RESPONSE: Sheet SP-2 has been revised to include dimensions for all the drive aisles located around the building.

- 16) Sheet SP-2 should be revised to add a stop bar and stop sign at the exit from the site onto Pleasant Valley Way.

PETRY RESPONSE: Sheet SP-2 has been revised to include a stop bar and stop sign at the exit from the site onto Pleasant Valley Way.

- 17) It shows on sheet SP-2 that a one-way sign is proposed at the rear of the dog bone island between the entrance and exit gates. However, the striping shown on the plan permits 2 way traffic at this location. This discrepancy must be resolved.

PETRY RESPONSE: The dog bone island has been removed and the tear drop island has been re-designed to eliminate the bypass area that was located between the tear drop island and the dog bone island. As such, the one-way sign has been removed.

- 18) Sheet SP-2 must be revised to dimension the widths of the proposed sidewalks.

PETRY RESPONSE: Sheet SP-2 has been revised to include dimensions for the proposed sidewalks located on the site.

- 19) Sheet SP-2 shows a new bridge over the Peckman River. Therefore, details of the new bridge must be added to the plans.

PETRY RESPONSE: The proposed bridge is called out as a pre-manufactured structure. Shop drawings shall be provided to the design engineer prior to installation. We would agree to provide copies of these shop drawings when they have been submitted, if required by the Board. The crossing has been approved by DEP as designed.

- 20) Sheet SP-3 must be revised to show the flood elevations at the site.

PETRY RESPONSE: Sheet SP-3 has been revised to show the Existing NJFHA Design Flood Limit Line and the Proposed NJFHA Design Flood Limit Line. The flood elevation at the south-westerly property line is 366.79 and the flood elevation at the bridge is 365.53.

- 21) Sheet SP-3 must be revised to clearly show the limits of the proposed retaining walls.



PETRY RESPONSE: The plans have been revised to clearly show the limits of the proposed retaining walls (See SP-3).

- 22) Sheet SP-3 shows a 379 contour near the southeast corner of the property between the curb and the easterly property line which does not connect into the existing contours on the adjoining property. This discrepancy must be resolved.

PETRY RESPONSE: The plans have been revised to correct the discrepancy of the 379 contour near the southeast corner of the property between the curb and easterly property line.

- 23) This project will be discharged to the existing Sewer Pump House on adjoining block 151, lot 34.01. The Applicant must demonstrate that the existing pump station has adequate capacity to accommodate the additional flows that are proposed.

PETRY RESPONSE: The Applicant agrees to coordinate with the Sewer Operator to ensure that the Sewer Pump House has adequate capacity to accommodate the additional flows.

- 24) Sheet SP-4 must be revised to label the sanitary sewer manholes and show the invert elevations and manhole rim elevations. In addition, the proposed type of pipe, pipe sizes, pipe lengths and pipe slopes must be shown for the sanitary sewer main and sewer laterals.

PETRY RESPONSE: Sheet SP-4 has been revised to include the necessary labels for the sanitary sewer manholes, sanitary sewer main, and sewer laterals.

- 25) Sheet SP-4 must be revised to clearly label the point of connection to the existing sanitary sewer system.

PETRY RESPONSE: Sheet SP-4 has been revised to label San. Manhole #1 as the point of connection to the existing sanitary sewer system.

- 26) Sheet SP-4 must be revised to label the proposed water main, the water service lines and fire hydrants. In addition, the type of pipe and pipe sizes must be shown.

PETRY RESPONSE: Sheet SP-4 has been revised to include the labels for the proposed water main and water service lines, including information about the type of pipe and the pipe size.



27) Sheet SP-5 is titled "Driveway & Storm Sewer Profiles"; however, no storm sewer pipes are shown on this drawing. This discrepancy must be resolved.

PETRY RESPONSE: Sheet SP-5 has been revised to be titled "Driveway Profile".

28) Sheet SP-6 is titled "Driveway & Storm Sewer Profiles"; however, no storm sewer pipes are shown on this drawing. This discrepancy must be resolved.

PETRY RESPONSE: Sheet SP-6 has been revised to be titled "Driveway Profile".

29) It shows on Sheet SP-7 that there is a 4" x 9" rectangular orifice in Outlet Structure 1-3 whereas Sheet SP-3 shows this orifice to be 4"x8". This discrepancy must be resolved.

PETRY RESPONSE: Sheet SP-7 has been revised to show that the rectangular orifice in Outlet Structure 1-3 is 4" by 8" as it is shown on Sheet SP-3 and within the Stormwater Management Report.

30) It shows on Sheet SP-7 that Outfall #1 has an invert elevation of 362.65 whereas Sheet SP-3 shows the same invert elevation to be 361.50. This discrepancy must be resolved.

PETRY RESPONSE: Sheet SP-3 has been revised to show that the invert elevation at Outfall #1 is 362.65.

31) On the Storm Sewer Network 15 Profile on Sheet SP-8, the callout for Type "B" #15-2 is difficult to read due to text overlap.

PETRY RESPONSE: Sheet SP-8 has been revised to make the text appear clearer and easier to read.

32) On the Storm Sewer Network 15 Profile on Sheet SP-8, the callout for the structure at Station 2+75 is incomplete.

PETRY RESPONSE: Sheet SP-8 has been revised in order to display all the callouts for the profile of Storm Sewer Network #15.

33) Sheet SP-13 includes a Concrete Aprons Detail. Therefore, Sheet SP-2 must be revised to identify the location(s) where a concrete apron is proposed.



PETRY RESPONSE: Sheet SP-13 has been revised to eliminate the Concrete Apron detail. The plans do not call for any concrete aprons to be constructed.

- 34) Sheet SP-14 includes a Rip-Rap Pad detail which shows the size of the required rip-rap apron for each flared end section. The Stormwater Management Report must be revised to include design calculations for each rip-rap apron.

PETRY RESPONSE: Conduit Outlet Protection calculations have been provided in the Appendix of the Stormwater Management Report just after the Storm Sewer Pipe Sizing Calculations.

- 35) The Typical Trench Detail for 8" PVC SDR-35 Sewer Pipe on Sheet SP-14 must be revised to note that a metallic locator tape shall be installed in the trench adjacent to the sanitary sewer pipe as stipulated in the RSIS.

PETRY RESPONSE: The Typical Trench Detail for 8" PVC SDR-35 Sewer Pipe of sheet SP-14 has been revised to include Note #5 which states the above.

- 36) The 48" Precast Concrete Manhole detail on Sheet SP-14 must be revised to state that the manholes shall be sealed with two coats of coal tar or asphalt pitch as stipulated in the RSIS.

PETRY RESPONSE: Note 7 has been added to the 48" Precast Concrete Manhole detail on Sheet SP-14 stating the above.

- 37) Note #5 on the Standard Manhole Frame & Cover Detail on Sheet SP-14 must be revised to reference the Township of West Orange.

PETRY RESPONSE: Note #5 on the Standard Manhole Frame and Cover Detail on Sheet SP-14 has been revised to reference the Township of West Orange.

- 38) The 48" Precast Concrete Manhole detail on Sheet SP-14 specifies a Campbell No. 1204 frame and cover whereas the Standard Manhole Frame & Cover Detail on Sheet SP-14 specifies a Campbell No. 1202 Frame and Cover. This discrepancy must be resolved.

PETRY RESPONSE: The 48" Precast Concrete Manhole Detail and Standard Manhole Frame and Cover detail on Sheet SP-14 have been revised to specify a Campbell No. 1202 Frame and Cover on both.



- 39) Sheet SP-14 includes a Deep Burial Installation Detail. We note that the detail is very difficult to read. In addition, the Applicant should clarify the purpose of this detail and where it is proposed.

PETRY RESPONSE: Sheet SP-14 has been revised to eliminate the Deep Burial Installation Detail as it is not required for the work that is proposed on the site.

- 40) Sheet SP-16 includes an 8" DIP Water Service Connection Detail. This detail shows a 6" gate valve on an 8" main which is unacceptable. The detail should be revised to show that an 8" gate valve is required.

PETRY RESPONSE: The 8" DIP Water Service Connection Detail has been revised to show an 8" gate valve.

- 41) Sheet SP-16 includes a Manual Air Release Assembly Detail. Therefore, Sheet SP-4 must be revised to identify where the air release assembly is proposed.

PETRY RESPONSE: The Manual Air Release Assembly Detail has been removed from Sheet SP-16 as it is not required for the proposed work on the site.

- 42) The Refuse Truck Turning Movement plan shows the refuse truck circulating through the site along the outside of the building. However, the architectural plans show that 2 trash room are proposed within the building. The Applicant should address the Board to clarify how the trash will be moved from the trash rooms to the refuse truck.

PETRY RESPONSE: The trash containers will be wheeled out from the trash rooms to the drive aisle during trash collection and then wheeled back to the trash rooms upon completion. Testimony to be provided by the Architect.

- 43) As stipulated in §25-29 of the Ordinance, this project is classified as a Major Development. Therefore, the stormwater management system must meet the requirements set forth in §25-29.3 of the Ordinance. The Applicant proposes to install two (2) underground detention basins to mitigate the increase in runoff from the site. Since the proposed development does not result in an increase of more that one-quarter acre of impervious coverage, water quality measures are not required. In addition, since the project was approved by the NJDEP prior to March 2, 2021, the Applicant is not required to incorporate green infrastructure into the design of the project.

PETRY RESPONSE: Statement. No response required.



- 44) The Stormwater Management Report shows that the stormwater runoff from the site was calculated using the TR-20 method with a minimum time of concentration of 10 minutes. As required by the NJDEP, a minimum time of concentration of 6 minutes (0.1 hrs) must be used with the NRCS method. Therefore, the calculations must be revised accordingly.

PETRY RESPONSE: As noted above, the Stormwater Management Design has already been approved by the DEP. At the time that this application was approved by the DEP, 10 minutes was the minimum time of concentration allowed. Since the change occurred after the plans were approved, we do not believe that this is applicable.

- 45) The Stormwater Management Report should be revised to include a Low Impact Development Checklist.

PETRY RESPONSE: The Low Impact Development Checklist has been completed and attached herein.

- 46) The Stormwater Management Facility Maintenance Plan Manual includes a section on stormfilter inspection and maintenance. However, the plans do not show that a stormfilter is proposed. This discrepancy must be resolved.

PETRY RESPONSE: The Stormwater Management Facility Maintenance Plan Manual has been revised to remove the maintenance information for stormfilters as they are not proposed for this project.

- 47) As stipulated in Section 25-29.10(b)(4) of the Ordinance, the stormwater maintenance plan and any future revisions shall be recorded upon the deed of record for each property on which the maintenance described in the maintenance plan must be undertaken. Prior to recording, the form of the deed must be approved by the Planning Board Attorney and our office.

PETRY RESPONSE: Sheet SP-1 has been revised to include Note 1 which states the above.

F. LANDSCAPING AND FORESTRY COMMENTS

- 1) In accordance with Section 25-27.4, provide a note on the plans that a tree removal permit shall be secured prior to disturbance. Revise the plans to graphically depict and specifically label the location for tree protection fencing in accordance with Section 25-27.9. It is unclear which trees are to remain and to be removed.



PETRY RESPONSE: The plans have been revised to include the above note on the Landscaping Plan (See Sheet SP-10). The plans have also been revised to clearly show the trees that are to be removed and to show the limit of tree protection.

- 2) Numerous invasive species were noted along the parking lot perimeter behind the existing buildings, including Ailanthus and Black Locust. Extra measures should not be taken to preserve these species.

PETRY RESPONSE: Statement. No response is required.

- 3) Revise the plans to remove extraneous information from sheet SP-10 to provide a more legible plan.

PETRY RESPONSE: Sheet SP-10 has been revised to remove extraneous information and to make the plan more legible.

- 4) Revise the plans to provide QP (Pin Oak) by the southern property line, along the circulation drive, rather than by parking stalls, due to the tree's downward growth habit of its lower limbs.

PETRY RESPONSE: Sheet SP-10 has been revised to show Pin Oak trees being planted near the southern property line and to show that Red Maples will be planted by parking stalls.

- 5) It appears the plans indicate for both QP (Pin Oak) and CO (Hackberry) to be planted at 25 feet on-center; however, staff recommends a minimum of 35' on-center when planting a street-scape.

PETRY RESPONSE: Sheet SP-10 has been revised to reflect that the spacing for both the Pin Oak and Hackberry shall be 35 feet on-center.

- 6) Revise the plans to provide landscaping at the base of the site identification sign.

PETRY RESPONSE: The plans have been revised to include landscaping at the base of the site identification sign. This area will be landscaped with annual plantings (See Sheet SP-10).

- 7) Where possible, shift proposed trees to be 8-10 feet away from all hardscaping to reduce root conflicts.



PETRY RESPONSE: The plans have been revised, where possible, to shift trees 8-10 feet away from any hardscaping that is proposed.

- 8) Revise the 'Planting Schedule', sheet SP-10, to indicate single stem ornamental trees in caliper inch, rather than height.

PETRY RESPONSE: The planting schedule has been revised to indicate that single stem ornamental trees with caliper inches and not height.

- 9) Revise the plans to provide label leader lines to all plant graphics, as it is difficult to determine plant materials proposed.

PETRY RESPONSE: Sheet SP-5 has been revised to include leaders and labels for all proposed trees on the site. The landscaped areas with annual plantings have also been called out.

- 10) Revise the plans to specifically indicate the proposed disposition for all open areas, such as lawn, mulch, stone, etc., to prevent confusion during construction.

PETRY RESPONSE: The plans have been revised to show the disposition of all open areas such as lawn, mulch, or stone in order to prevent confusion (See Sheet SP-10).

- 11) Revise the 'Planting Notes', sheet SP-10, to indicate that no mulch shall come into contact with the root flare.

PETRY RESPONSE: Note stating the above has been added to the Planting Notes on sheet SP-10.

- 12) Revise the plans to graphically depict mulch bed lines on the plans, to prevent confusion during construction.

PETRY RESPONSE: Sheet SP-10 has been revised to graphically depict mulch beds on the plans.

- 13) Revise the 'Planting Detail', sheet SP-10, to remove the reference to trunk wrap, as industry standards does not endorse the use of such. Instead, staff recommends rigid, plastic open mesh trunk guards, to protect from the irreparable damage from buck rub.



PETRY RESPONSE: The Planting Detail on sheet SP-10 has been revised to remove the trunk wrap and replace it with open mesh trunk guards.

G. LIGHTING COMMENTS

- 1) In accordance with Section 25-14.1c., light fixtures shall not exceed a height of eighteen (18) feet; whereas the Applicant has proposed fixtures at 20 feet tall. A waiver should be requested.

PETRY RESPONSE: A waiver is hereby requested.

- 2) Revise the plans to indicate the proposed color and finish for all light fixtures and poles to prevent confusion during construction.

PETRY RESPONSE: The plans have been revised to indicate that the color and finish of all light fixture poles shall be round tapered bronze aluminum (See Sheet SP-9A).

- 3) Revise the foundation lighting detail, sheet SP-9, to indicate the concrete strength. Staff recommends 4,500 PSI.

PETRY RESPONSE: The foundation lighting detail has been revised to include a note indicating the concrete strength of the base to be 4,500 PSI.

- 4) Revise the plans to provide manufacturer's catalog cuts for all light fixtures and poles to prevent confusion during construction. Also, provide the full ordering information for the proposed light poles.

PETRY RESPONSE: The plans have been revised to include Sheet SP-9A, which includes the cutsheets for the proposed lighting fixtures and pole along with ordering information as needed for the contractor.

- 5) Revise the plans to indicate proposed timers and hours of operation for proposed light fixtures. Staff recommends light levels be dimmed or provided with motion sensing in the overnight hours, to reduce light pollution.

PETRY RESPONSE: Sheet SP-9A has been revised to include lighting notes which specify the specific times when the light fixtures are in operation at both full power and dimmed power lines.



- 6) Revise the plans to provide isolux pattern details with a scale and graph to correspond with the proposed light fixtures.

PETRY RESPONSE: The plans have been revised to include the standard detail for isolux curves (See Sheet SP-9A). The cut sheets for the specific light fixtures that are proposed have been attached to the end of this letter, which provide the specific isolux patterns for each.

We trust that we have provided sufficient information for your continued review. Should you have any questions or concerns, please feel free to contact us.

Very truly yours,
PETRY ENGINEERING, LLC

J. Michael Petry

J. Michael Petry, PE, PP, AIA





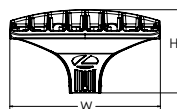
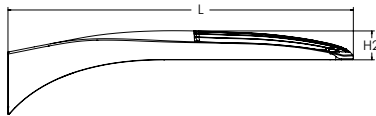
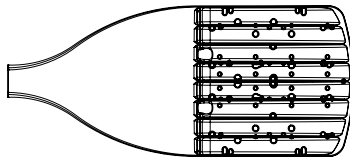
D-Series Size 1 LED Area Luminaire



d#series

Specifications

EPA:	0.69 ft ² (0.06 m ²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



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 features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED												
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution		Voltage	Mounting					
DSX1 LED	Forward optics		(this section 70CRI only)	AFR	Automotive front row	T5M	Type V medium	MVOLT	(120V-277V) ⁴	Shipped included		
	P1	P6	30K 3000K	70CRI	T1S	Type I short	T5LG	Type V low glare	HVOLT	(347V-480V) ^{5,6}	SPA	Square pole mounting (#8 drilling)
	P2	P7	40K 4000K	70CRI	T2M	Type II medium	T5W	Type V wide	XVOLT	(277V - 480V) ^{7,8}	RPA	Round pole mounting (#8 drilling)
	P3	P8	50K 5000K	70CRI	T3M	Type III medium	BLC3	Type III backlight control ³			SPA5	Square pole mounting #5 drilling ⁹
	P4	P9	(this section 80CRI only, extended lead times apply)		T3LG	Type III low glare ³	BLC4	Type IV backlight control ³			RPA5	Round pole mounting #5 drilling ⁹
	P5			T4M	Type IV medium					SPA8N	Square narrow pole mounting #8 drilling	
	P10 ¹	P12 ¹	27K 2700K	80CRI	T4LG	Type IV low glare ³	LCCO	Left corner cutoff ³			WBA	Wall bracket ¹⁰
	P11 ¹	P13 ¹	30K 3000K	80CRI	TFTM	Forward throw medium	RCCO	Right corner cutoff ³			MA	Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
			35K 3500K	80CRI								
			40K 4000K	80CRI								
		50K 5000K	80CRI									

Control options		Other options	Finish (required)
Shipped installed		Shipped installed	DDBXD Dark Bronze
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ^{11, 12, 20, 21}	PER7 Seven-pin receptacle only (controls ordered separate) ^{14, 21}	SPD20KV 20KV surge protection	DBLXD Black
PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ^{13, 20, 21}	FAO Field adjustable output ^{15, 21}	HS Houseside shield (black finish standard) ²²	DNAXD Natural Aluminum
PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁴	BL30 Bi-level switched dimming, 30% ^{16, 21}	L90 Left rotated optics ¹	DWHXD White
PER5 Five-pin receptacle only (controls ordered separate) ^{14, 21}	BL50 Bi-level switched dimming, 50% ^{16, 21}	R90 Right rotated optics ¹	DDBTXD Textured dark bronze
	DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷	CCE Coastal Construction ²³	DBLBXD Textured black
	DS Dual switching ^{18, 19, 21}	HA 50°C ambient operation ²⁴	DNATXD Textured natural aluminum
		Shipped separately	DWHGXD Textured white
		EGSR External Glare Shield (reversible, field install required, matches housing finish)	
		BSDB Bird Spikes (field install required)	



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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DSX1-LED
Rev. 04/25/23
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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

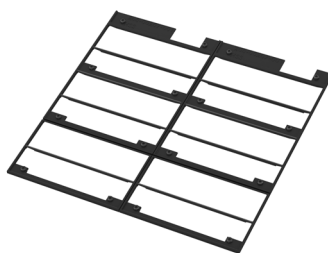
NOTES

- 1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- 3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- 4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- 7 XVOOLT operates with any voltage between 277V and 480V (50/60 Hz).
- 8 XVOOLT not available in packages P1 or P10.
- 9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- 10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
- 11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- 12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOOLT.
- 13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOOLT.
- 14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- 15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- 16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS.
- 17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- 18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- 19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- 20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
- 21 Reference Controls Options table on page 4.
- 22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- 23 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- 24 Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- 25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.

Shield Accessories



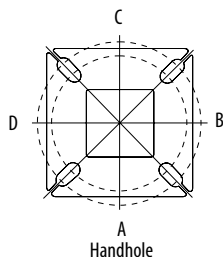
External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

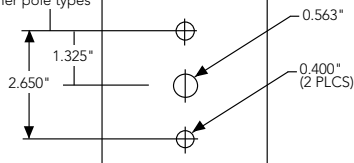
HANDHOLE ORIENTATION



Template #8

Top of Pole

1.75" for aluminum poles
2.75" for other pole types



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	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	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

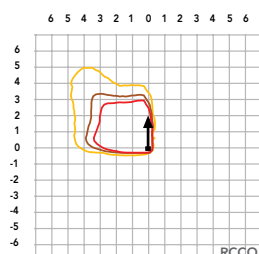
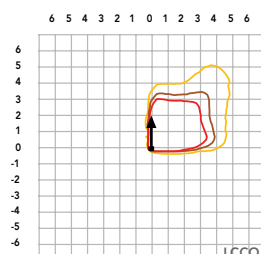
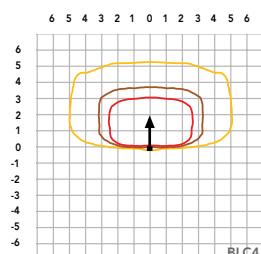
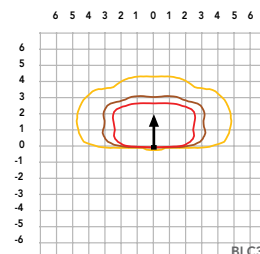
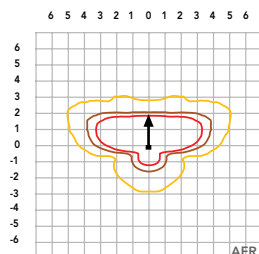
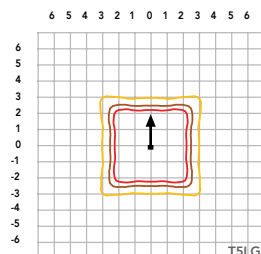
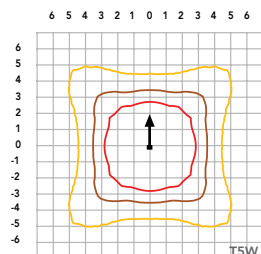
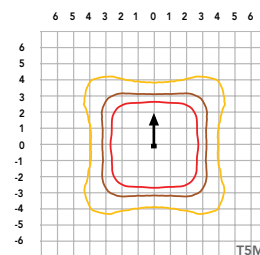
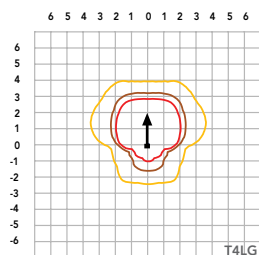
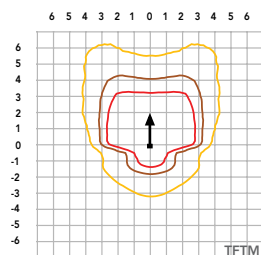
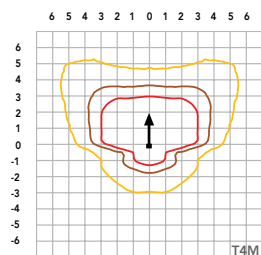
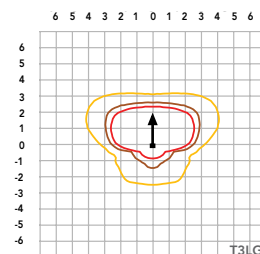
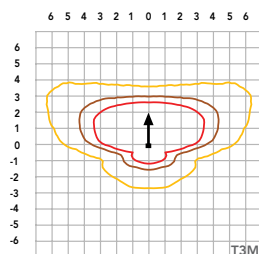
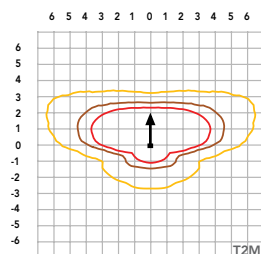
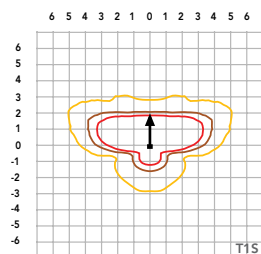
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](https://www.lithonia.com).

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND



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
25°C	77°F	1.00
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
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

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 (not available on DSX0)	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. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
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 rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V



COMMERCIAL OUTDOOR

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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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
				T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
P3	102W	30	1050	T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																				
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K						40K					50K				
					(3000K, 70 CRI)						(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141	
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130	
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132	
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118	
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134	
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122	
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135	
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138	
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140	
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138	
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96	
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99	
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97	
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97	
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141	
P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139	
				T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129	
				T3M	16,917	3	0	4	122	17,630	3	0	4	128	17,974	3	0	4	130	
				T3LG	15,111	2	0	2	109	15,749	2	0	2	114	16,055	2	0	2	116	
				T4M	17,169	3	0	5	124	17,893	3	0	5	130	18,242	3	0	5	132	
				T4LG	15,615	2	0	2	113	16,274	2	0	2	118	16,591	2	0	2	120	
				TFTM	17,288	2	0	4	125	18,017	2	0	5	130	18,368	3	0	5	133	
				T5M	17,664	5	0	3	128	18,410	5	0	3	133	18,768	5	0	3	136	
				T5W	17,951	5	0	3	130	18,708	5	0	3	135	19,073	5	0	3	138	
				T5LG	17,716	4	0	2	128	18,463	4	0	2	134	18,823	4	0	2	136	
				BLC3	12,305	0	0	3	89	12,824	0	0	3	93	13,074	0	0	3	95	
				BLC4	12,709	0	0	4	92	13,245	0	0	4	96	13,503	0	0	4	98	
				RCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95	
				LCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95	
				AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139	
P6	165W	40	1250	T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135	
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125	
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127	
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113	
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129	
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117	
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129	
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132	
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134	
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133	
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92	
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95	
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93	
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93	
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135	

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
P8	216W	60	1100	T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
				T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

Performance Data

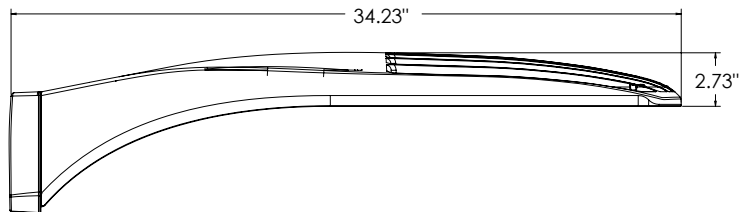
Lumen Output

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

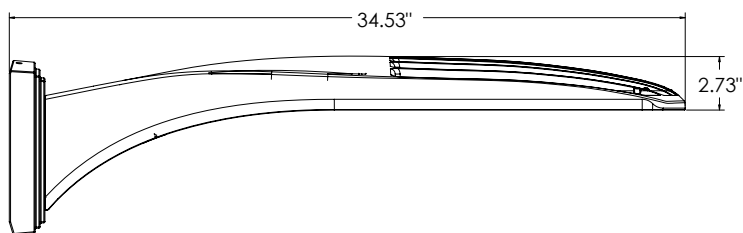
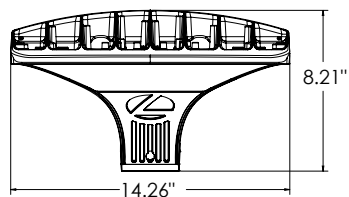
Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
				T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
				T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
				T3LG	16,270	3	0	3	121	16,957	3	0	3	126	17,287	4	0	4	128
				T4M	18,483	4	0	4	137	19,263	5	0	5	143	19,638	5	0	5	146
				T4LG	16,810	3	0	3	125	17,519	3	0	3	130	17,861	3	0	3	132
				TFTM	18,614	4	0	4	138	19,399	4	0	4	144	19,777	5	0	5	147
				T5M	19,017	5	0	3	141	19,819	5	0	3	147	20,205	5	0	3	150
				T5W	19,325	5	0	3	143	20,140	5	0	3	149	20,533	5	0	3	152
				T5LG	19,072	4	0	2	141	19,876	4	0	2	147	20,264	4	0	2	150
				BLC3	13,247	4	0	4	98	13,806	4	0	4	102	14,075	4	0	4	104
				BLC4	13,682	4	0	4	101	14,259	4	0	4	106	14,537	4	0	4	108
				RCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				LCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				AFR	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
P12	206W	60	1050	T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
				T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
				T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
				T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
				T3LG	28,826	4	0	4	105	30,042	4	0	4	109	30,628	4	0	4	111
				T4M	32,746	5	0	5	119	34,128	5	0	5	124	34,793	5	0	5	126
				T4LG	29,782	4	0	4	108	31,039	4	0	4	113	31,644	5	0	4	115
				TFTM	32,978	5	0	5	120	34,369	5	0	5	125	35,039	5	0	5	127
				T5M	33,692	5	0	4	122	35,113	5	0	4	127	35,797	5	0	4	130
				T5W	34,238	5	0	4	124	35,682	5	0	4	129	36,378	5	0	4	132
				T5LG	33,789	5	0	3	122	35,215	5	0	3	128	35,901	5	0	3	130
				BLC3	23,471	5	0	5	85	24,461	5	0	5	89	24,937	5	0	5	90
				BLC4	24,240	5	0	5	88	25,262	5	0	5	92	25,755	5	0	5	93
				RCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				LCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				AFR	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133

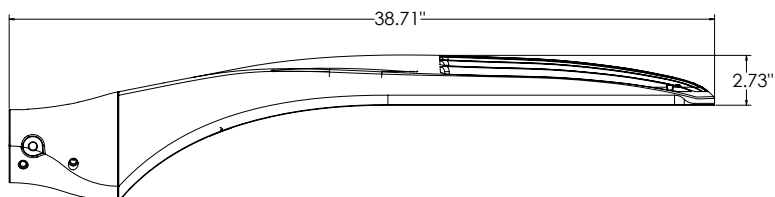
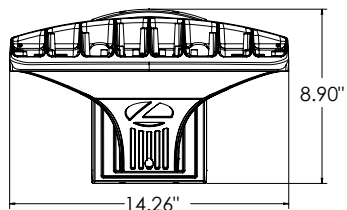
Dimensions



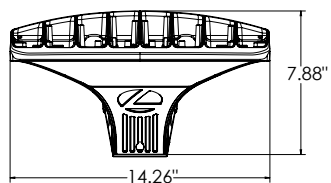
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs



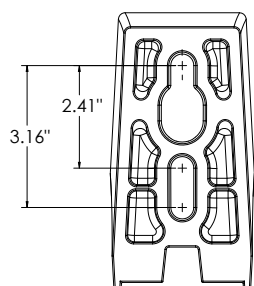
DSX1 with WBA mount
Weight: 38 lbs



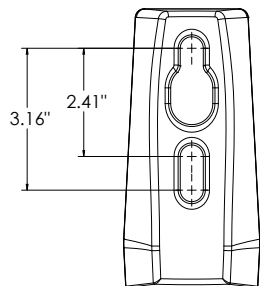
DSX1 with MA mount
Weight: 39 lbs



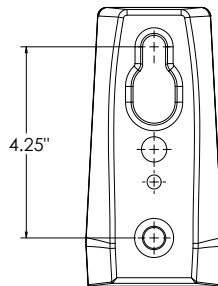
SPA (STANDARD ARM)



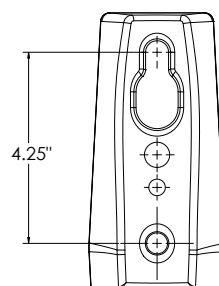
RPA



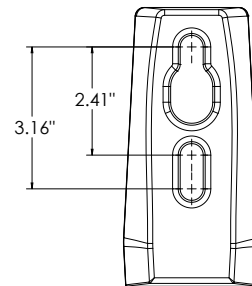
SPA5



RPA5

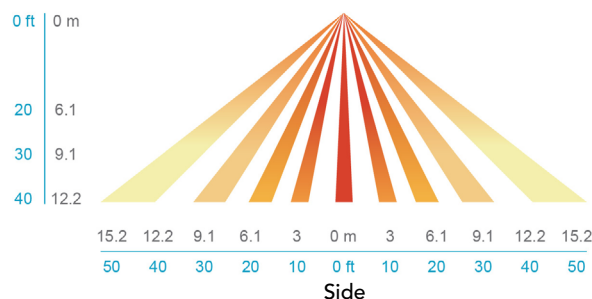
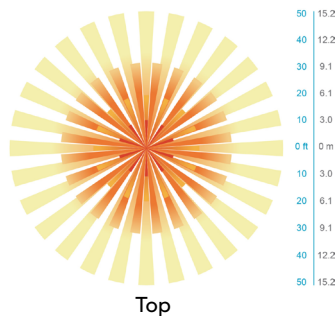
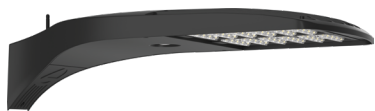


SPA8N



nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

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 drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) 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.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 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 configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 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 DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 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 photocell 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

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. 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 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. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/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.



D-Series LED Bollard



d^{series}

Specifications

Diameter: 8" Round
(20.3 cm)

Height: 42"
(106.7 cm)

Weight (max): 27 lbs
(12.25 kg)



Catalog
Number

Notes

Type

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

Introduction

The D-Series LED Bollard is a stylish, energy-saving, long-life solution designed to perform the way a bollard should—with zero uplight. An optical leap forward, this full cut-off luminaire will meet the most stringent of lighting codes. The D-Series LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

Ordering Information

EXAMPLE: DSXB LED 16C 700 40K SYM MVOLT DDBXD

DSXB LED														
Series	LEDs	Drive current		Color temperature		Distribution		Voltage	Control options	Other options	Finish <i>(required)</i>			
DSXB LED	Asymmetric 12C 12 LEDs ¹	350	350 mA	30K	3000 K	ASY	Asymmetric ¹	MVOLT ⁵	Shipped installed	Shipped installed	DWHXD	White		
		450	450 mA ^{3,4}	40K	4000 K			120 ⁵			PE	Photoelectric cell, button type	SF	Single fuse (120, 277, 347V) ^{4,7}
		530	530 mA	50K	5000 K	208 ⁵	DMG	00–10v dimming wires pulled outside fixture (for use with an external control, ordered separately)			DF	Double fuse (208, 240V) ^{4,7}	DDBXD	Dark bronze
	Symmetric 16C 16 LEDs ²	700	700 mA	AMBPB	Amber phosphor converted	240 ⁵					H24	24" overall height	DBLXD	Black
				AMBLW	Amber limited wavelength ^{3,4}	277 ⁵					H30	30" overall height	DDBTXD	Textured dark bronze
						347 ⁴	H36	36" overall height	DBLBXD	Textured black				
								ELCW	Emergency battery backup ⁶	FG	Ground-fault festoon outlet	DNATXD	Textured natural aluminum	
										L/AB	Without anchor bolts			
										L/AB4	4-bolt retrofit base without anchor bolts ⁸	DWHGXD	Textured white	

Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for DSXB⁸

NOTES

- Only available in the 12C, ASY version.
- Only available in the 16C, SYM version.
- Only available with 450 AMBLW version.
- Not available with ELCW.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- MRAB U not available with L/AB4 option.



Performance Data

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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Asymmetric (12 LEDs)	350	16	1,194	75	1	0	1	1,283	80	1	0	1	1,291	81	1	0	1					
	530	22	1,719	78	1	0	1	1,847	84	1	0	1	1,859	85	1	0	1					
	700	31	2,173	70	1	0	1	2,335	75	1	0	1	2,349	76	1	0	1					
	Amber 450	16																348	22	1	0	1
Symmetric (16 LEDs)	350	20	1,558	78	1	0	0	1,674	84	1	0	0	1,685	84	1	0	0					
	530	28	2,232	80	2	0	1	2,397	86	2	0	1	2,412	86	2	0	1					
	700	39	2,802	72	2	0	1	3,009	77	2	0	1	3,028	78	2	0	1					
	Amber 450	20																419	21	1	0	1

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

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	1.00	0.98	0.97	0.95

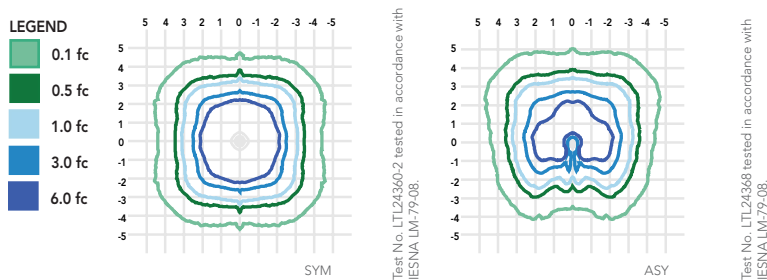
Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

Photometric Diagrams

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

Isofootcandle plots for the DSXB LED 700 40K. Distances are in units of mounting height (3').



FEATURES & SPECIFICATIONS

INTENDED USE

The rugged construction and maintenance-free performance of the D-Series LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

CONSTRUCTION

One-piece 8-inch-round extruded aluminum shaft with thick side walls for extreme durability, and die-cast aluminum reflector and top cap. Die-cast aluminum mounting ring allows for easy leveling even in uneven areas and full 360-degree rotation for precise alignment during installation. Three 1/2" x 11" anchor bolts with double nuts and washers and 3-5/8" max. bolt circle template ensure stability. Overall height is 42" standard.

FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Two 0% uplight optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.

Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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.



FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Round Tapered Aluminum is a general purpose light pole for up to 50-foot mounting heights. This pole provides a lighter and naturally corrosion-resistant option for mounting area light fixtures and floodlights.

CONSTRUCTION

Pole Shaft: The pole shaft is of uniform wall thickness and is one-piece extruded 6063 aluminum alloy with T6 temper. The shaft is cone-tapered. Available shaft diameters are 4", 5", 6", 7", 8", and 10".

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. A removable cast aluminum top cap with set screws is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with open top (PT) option. The top cap resists intrusion of moisture and environmental contaminants.

Handhole: 4" - 6" RTA poles have non-reinforced 2" x 4" handhole with overlap cover. 7" - 10" RTA poles have reinforced 4" x 6" handhole with flush surface covers. 4" - 5" RTA poles have handhole located 12" above base. 6" - 10" RTA poles handhole located 18" above base on side A. Poles with non-reinforced handhole have supplemental ground lug with tapped hole for 3/8-16 ground bolt welded inside pole opposite handhole. Poles with reinforced handhole have 5/16-18 tapped hole in handhole reinforcement adjacent to opening. Positioning the handhole lower than standard may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Standard and extra handholes come with cover and attachment hardware.

Bolt Caps/Base Cover: Pole base plate for RTA poles utilizes cast aluminum A365 bolt caps to cover anchor bolt and nut assembly (included). 1 piece, spun aluminum base cover available as an option.

Anchor Base/Bolts: Anchor base is cast from A356 alloy aluminum and is heat treated to a T6 temper after welding. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end. Each hot-dipped galvanized anchor bolt is furnished with two hex nuts and two flat washers.

HARDWARE — All structural and non-structural fasteners are stainless-steel.

FINISH — Extra durable painted finish is coated with polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes.

INSTALLATION — **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.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

RTA

ROUND TAPERED ALUMINUM



RTA Round Tapered Aluminum Poles

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: RTA 25 6E DM19 BA

RTA					
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness ¹	Mounting ²	Options	Finish ¹⁰
RTA	8'-50' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	5C 5" (.125") 5E 5" (.156") 5G 5" (.188") 6E 6" (.156") 6G 6" (.188") 7E 7" (.156") 8E 8" (.156") 8G 8" (.188") 8J 8" (.250") 9E 9" (.156") 9G 9" (.188") 10G 10" (.188") 10J 10" (.250") (See technical information table for complete ordering information.)	Tenon mounting PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) <u>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting³</u> DM19 1 at 90° DM28 2 at 180° DM28PL 2 at 180° with one side plugged DM29 2 at 90° DM32 3 at 120° DM39 3 at 90° DM49 4 at 90° <u>CSX/DSX/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting³</u> DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM32AS 3 at 120° DM39AS 3 at 90° DM49AS 4 at 90° <u>RAD drill mounting³</u> DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM32RAD 3 at 120° DM39RAD 3 at 90° DM49RAD 4 at 90° <u>ESX Drill mounting³</u> DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90° <u>AERIS™ Suspend drill mounting^{3,4}</u> DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° <u>OMERO™ Suspend drill mounting^{3,4}</u> DM19MRT_ 1 at 90° DM28MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°	VD Vibration damper HAXy Horizontal arm bracket (1 fixture) ^{5,6} FDLxy Festoon outlet less electrical ^{5,7} CPL12/xy 1/2" I.D. coupling ⁵ CPL34/xy 3/4" I.D. coupling ⁵ CPL1/xy 1" I.D. coupling ⁵ NPL12/xy 1/2" O.D. threaded nipple ⁵ NPL34/xy 3/4" O.D. threaded nipple ⁵ NPL1/xy 1" O.D. threaded nipple ⁵ EHHxy Extra handhole ^{5,8} FBC Full base cover (spun aluminum) L/AB Less anchor bolts (Include when anchor bolts are not needed) TP Tamper resistant handhole cover fasteners NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) UL UL listed with label (Includes NEC compliant cover) BAA Buy America(n) Act Compliant ⁹	<u>Super durable paint colors</u> DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DGCXD Charcoal gray DTGXD Tennis green DBRXD Bright red DSBXD Steel blue DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white <u>Brushed finish</u> BA Brushed aluminum <u>Class 1 architectural anodized</u> ABL Black ADB Dark bronze ANA Natural <u>Architectural colors and special finishes</u> Duranodic Anodize, Paint over Duranodic Anodize, RAL Colors, Custom Colors and Extended Warranty Finishes available.

NOTES:

- Wall thickness will be signified with a "C", "E", "G" or a "J" in nomenclature.
"C" - 0.125 | "E" - 0.156 | "G" - 0.188 | "J" - 0.250.
- 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.
- Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option.
For "x": Specify the height above the base of pole in 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/S-8C
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12" rise. If ordering two horizontal arm at the same height, specify with HAXxy. Example: HA20BD
- FDL does not come with additional covering. Festoons must be a minimum of 3ft (36in) from the base in any orientation. Distance between any festoon and/or handhole must be at least 1ft and 6in (18in) apart in any orientation.
- Combination of tenon-top and drill mount includes extra handhole. Extra Handholes must be a minimum of 3ft (36in) from the base in any orientation. Distance between any festoon and/or handhole must be at least 1ft and 6in (18in) apart in any orientation.
- Use when mill certifications are required. Some configurations may be excluded, consult factory.
- Finish must be specified. Additional colors available; see Architectural Colors brochure linked [here](#) (Form No. 794.3). Lead times may be extended up to 2 weeks due to paint procurement.

RTA Round Tapered Aluminum Poles

TECHNICAL INFORMATION — EPA (FT²) WITH 1.3 GUST									
Catalog number	Nominal mount ht. (ft) *	Pole shaft size (in x ft)	Wall thick (in)	80 mph	90 mph	100 mph	Max. weight	Bolt size (in. x in. x in.)	Approximate ship (lbs.)
RTA 20 5C	20	5 x 3 x 19.66	0.125	3.9	2.5	1.6	100	.75 x 18 x 3	62
RTA 20 5G	20	5 x 3 x 19.66	0.188	7.4	5.2	3.8	100	.75 x 18 x 3	72
RTA 20 6G	20	6 x 4 x 19.66	0.188	12.2	9.2	7.2	214	.75 x 30 x 3	107
RTA 20 7E	20	7 x 4 x 19.66	0.156	15.0	11.4	9.0	256	1 x 36 x 4	103
RTA 25 6E	25	6 x 4 x 24.66	0.156	5.3	3.6	2.6	114	.75 x 30 x 3	106
RTA 25 7E	25	7 x 4 x 24.66	0.156	9.5	7.0	5.4	162	1 x 36 x 4	120
RTA 25 8E	25	8 x 4.5 x 24.66	0.156	14.2	10.9	8.5	220	1 x 36 x 4	130
RTA 25 8G	25	8 x 4.5 x 24.66	0.188	18.0	13.8	10.9	261	1 x 36 x 4	153
RTA 25 9G	25	9 X 4.5 X 24.66	0.188	24.2	18.7	14.9	150	1 X 36 X 4	167
RTA 30 7E	30	7 x 4 x 29.66	0.156	5.5	3.8	2.7	111	1 x 36 x 4	135
RTA 30 8E	30	8 x 4.5 x 29.66	0.156	9.4	7.0	5.3	151	1 x 36 x 4	150
RTA 30 8G	30	8 x 4.5 x 29.66	0.188	12.4	9.4	7.3	179	1 x 36 x 4	175
RTA 30 9G	30	9 X 4.5 X 29.66	0.188	17.4	13.3	10.4	150	1 X 36 X 4	180
RTA 30 10G	30	10 x 6 x 29.66	0.188	23.8	18.3	14.3	377	1 x 40 x 4	235
RTA 35 8E	35	8 x 4.5 x 34.66	0.156	5.8	4.1	2.9	119	1 x 36 x 4	185
RTA 35 8G	35	8 x 4.5 x 34.66	0.188	8.3	6.0	4.5	141	1 x 36 x 4	220
RTA 35 8J	35	8 x 4.5 x 34.66	0.250	12.9	9.7	7.5	183	1 x 36 x 4	251
RTA 35 9G	35	9 X 4.5 X 34.66	0.188	12.5	9.3	7.2	150	1 X 36 X 4	204
RTA 35 10G	35	10 x 6 x 34.66	0.188	17.9	13.6	10.4	295	1 x 40 x 4	268
RTA 39 8G	39	8 x 4.5 x 38.66	0.188	5.6	3.9	2.7	122	1 x 36 x 4	250
RTA 39 8J	39	8 x 4.5 x 38.66	0.250	9.7	7.1	5.4	158	1 x 36 x 4	280
RTA 39 9G	39	9 X 4.5 X 38.66	0.188	9.4	6.8	5.1	150	1 X 36 X 4	255
RTA 39 10G	39	10 x 6 x 38.66	0.188	14.2	10.5	7.8	253	1 x 40 x 4	295
RTA 39 10J	39	10 x 6 x 38.66	0.250	20.4	15.5	11.9	300	1.25 x 48 x 5	373
RTA 50 10J	50	10 x 6 x 49.66	0.250	12.5	9.1	6.5	300	1.25 x 48 x 5	447

NOTE: *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.
Assumes center of load is located 1.5' above pole top

RTA Round Tapered Aluminum Poles

TECHNICAL INFORMATION — EPA (ft ²) WITH 3-SECOND GUST PER AASHTO 2013																
Series	Mounting Height (ft)*	Shaft Base Size	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight
RTA	8	4C	7.7	75	6.1	75	4.9	75	4	75	3.3	75	2.8	75	2.4	75
RTA	10	4C	5.9	75	4.6	75	3.6	75	2.9	75	2.3	75	1.9	75	1.6	75
RTA	10	5C	11.5	75	9.1	75	7.3	75	6	75	5	75	4.2	75	3.6	75
RTA	12	4C	4.5	75	3.4	75	2.6	75	2	75	1.5	75	1.2	75	0.9	75
RTA	12	5C	9.2	75	7.2	75	5.7	75	4.6	75	3.8	75	3.2	75	2.7	75
RTA	12	5E	11.6	75	9.2	75	7.4	75	6	75	5	75	4.2	75	3.6	75
RTA	12	5G	14	100	11.1	100	8.9	100	7.3	100	6.1	100	5.1	100	4.4	100
RTA	14	4C	3.4	75	2.5	75	1.8	75	1.2	75	0.8	75	0.5	75	-	75
RTA	14	5C	7.5	75	5.7	75	4.4	75	3.5	75	2.8	75	2.3	75	1.9	75
RTA	14	5E	9.6	75	7.4	75	5.9	75	4.7	75	3.8	75	3.2	75	2.7	75
RTA	14	5G	11.6	100	9	100	7.2	100	5.8	100	4.8	100	4	100	3.4	100
RTA	16	4C	2.5	75	1.6	75	1	75	0.6	75	-	75	-	75	-	75
RTA	16	5C	6	75	4.4	75	3.3	75	2.6	75	2	75	1.6	75	1.2	75
RTA	16	5E	7.8	75	5.9	75	4.6	75	3.6	75	2.9	75	2.3	75	1.9	75
RTA	16	5G	9.6	100	7.3	100	5.8	100	4.6	100	3.7	100	3	100	2.5	100
RTA	16	6E	13.7	100	10.8	100	8.7	100	7.1	100	6	100	5.1	100	4.3	100
RTA	16	6G	16.8	100	13.2	100	10.7	100	8.8	100	7.4	100	6.3	100	5.4	100
RTA	18	5C	4.6	75	3.3	75	2.4	75	1.7	75	1.2	75	0.9	75	0.6	75
RTA	18	5E	6.3	75	4.6	75	3.5	75	2.6	75	2	75	1.5	75	1.2	75
RTA	18	5G	7.8	100	5.8	100	4.5	100	3.5	100	2.7	100	2.2	100	1.8	100
RTA	18	6E	11.3	100	8.8	100	7	100	5.7	100	4.7	100	4	100	3.4	100
RTA	18	6G	13.9	100	10.9	100	8.8	100	7.2	100	6	100	5.1	100	4.3	100
RTA	18	7E	18	150	14.2	150	11.4	150	9.4	150	7.9	150	6.7	150	5.7	150
RTA	20	5C	3.5	75	2.4	75	1.6	75	1	75	0.6	75	-	75	-	75
RTA	20	5E	5	75	3.5	75	2.5	75	1.8	75	1.3	75	0.9	75	-	75
RTA	20	5G	6.3	100	4.6	100	3.4	100	2.5	100	1.9	100	1.4	100	1.1	100
RTA	20	6E	9.3	100	7.1	100	5.5	100	4.5	100	3.7	100	3.1	100	2.6	100
RTA	20	6G	11.6	100	9	100	7.1	100	5.8	100	4.8	100	4	100	3.4	100
RTA	20	7E	15.3	150	12	150	9.6	150	7.8	150	6.5	150	5.5	150	4.7	150
RTA	23	6E	6.9	100	5	100	3.7	100	2.9	100	2.3	100	1.9	100	1.5	100
RTA	23	6G	8.9	100	6.6	100	5.1	100	4	100	3.3	100	2.7	100	2.2	100
RTA	23	7E	12	150	9.2	150	7.2	150	5.8	150	4.8	150	4	150	3.3	150
RTA	23	8E	17.1	150	13.4	150	10.8	150	8.9	150	7.4	150	6.2	150	5.3	150
RTA	23	8G	21.3	150	16.8	150	13.6	150	11.3	150	9.4	150	8	150	6.8	150
RTA	23	9E	23.2	150	18.3	150	14.9	150	12.3	150	10.3	150	8.6	150	7.3	150
RTA	25	6E	5.5	100	3.8	100	2.7	100	2	100	1.5	100	1.2	100	0.9	100
RTA	25	6G	7.3	100	5.3	100	3.9	100	3	100	2.4	100	1.9	100	1.6	100
RTA	25	7E	10.1	150	7.6	150	5.8	150	4.6	150	3.7	150	3.1	150	2.5	150
RTA	25	8E	14.7	150	11.4	150	9.1	150	7.5	150	6.2	150	5.1	150	4.3	150
RTA	25	8G	18.6	150	14.5	150	11.7	150	9.6	150	8	150	6.7	150	5.7	150
RTA	25	9E	20.3	150	16	150	12.9	150	10.6	150	8.8	150	7.4	150	6.2	150
RTA	28	7E	7.7	150	5.6	150	4.2	150	3.2	150	2.5	150	2	150	1.6	150
RTA	28	8E	11.8	150	9	150	7.1	150	5.8	150	4.7	150	3.8	150	3.2	150
RTA	28	8G	15.1	150	11.7	150	9.4	150	7.6	150	6.3	150	5.2	150	4.4	150
RTA	28	8J	21.4	150	16.8	150	13.6	150	11.2	150	9.3	150	7.8	150	6.6	150
RTA	28	9E	16.7	150	13	150	10.4	150	8.5	150	7	150	5.8	150	4.8	150
RTA	28	9G	21	150	16.5	150	13.3	150	10.9	150	9.1	150	7.6	150	6.4	150
RTA	28	10G	27.5	200	21.9	200	17.8	200	14.6	200	12.1	200	10.1	200	8.5	200
RTA	28	10J	37.3	300	29.9	300	24.4	300	20.2	300	16.9	300	14.2	300	12	300
RTA	30	7E	6.3	150	4.4	150	3.1	150	2.2	150	1.7	150	1.3	150	0.9	150
RTA	30	8E	10	150	7.4	150	5.8	150	4.6	150	3.7	150	3	150	2.4	150
RTA	30	8G	13.1	150	9.9	150	7.9	150	6.4	150	5.2	150	4.3	150	3.5	150
RTA	30	9E	14.6	150	11.3	150	9	150	7.3	150	5.9	150	4.8	150	4	150
RTA	30	9G	18.6	150	14.6	150	11.7	150	9.5	150	7.8	150	6.5	150	5.4	150

*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

RTA Round Tapered Aluminum Poles

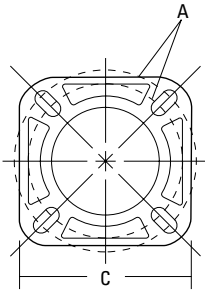
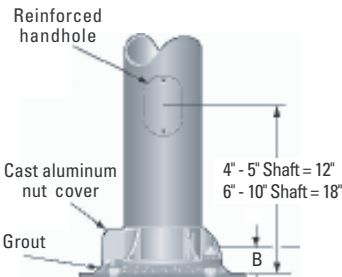
TECHNICAL INFORMATION (cont.)— EPA (ft²) WITH 3-SECOND GUST PER AASHTO 2013																
Series	Mounting Height (ft)*	Shaft Base Size	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight
RTA	30	8J	18.9	150	14.6	150	11.7	150	9.6	150	8	150	6.7	150	5.6	150
RTA	30	10G	24.6	200	19.6	200	15.8	200	13	200	10.7	200	8.8	200	7.3	200
RTA	30	10J	33.7	300	26.9	300	21.9	300	18.1	300	15	300	12.6	300	10.6	300
RTA	33	8E	7.8	150	5.7	150	4.3	150	3.4	150	2.6	150	2	150	1.5	150
RTA	33	8G	10.6	150	7.9	150	6.2	150	4.9	150	3.9	150	3.1	150	2.5	150
RTA	33	9E	11.9	150	9	150	7.1	150	5.6	150	4.5	150	3.6	150	2.9	150
RTA	33	9G	15.5	150	11.9	150	9.5	150	7.6	150	6.2	150	5.1	150	4.1	150
RTA	33	8J	15.7	150	12.1	150	9.6	150	7.8	150	6.4	150	5.3	150	4.4	150
RTA	33	10G	20.8	200	16.5	200	13.2	200	10.7	200	8.8	200	7.2	200	5.8	200
RTA	33	10J	28.9	300	23	300	18.6	300	15.3	300	12.6	300	10.5	300	8.7	300
RTA	35	8E	6.3	150	4.4	150	3.2	150	2.4	150	1.8	150	1.3	150	0.9	150
RTA	35	8G	8.9	150	6.5	150	5	150	3.9	150	3	150	2.4	150	1.8	150
RTA	35	9E	10.3	150	7.7	150	6	150	4.7	150	3.7	150	2.8	150	2.2	150
RTA	35	9G	13.6	150	10.4	150	8.2	150	6.6	150	5.3	150	4.2	150	3.4	150
RTA	35	8J	13.9	150	10.6	150	8.4	150	6.7	150	5.5	150	4.4	150	3.6	150
RTA	35	10G	18.7	200	14.7	200	11.7	200	9.4	200	7.6	200	6.1	200	4.9	200
RTA	35	10J	25.9	300	20.6	300	16.6	300	13.6	300	11.2	300	9.3	300	7.7	300
RTA	37	8G	7.6	150	5.5	150	4.1	150	3.2	150	2.4	150	1.8	150	1.3	150
RTA	37	9E	8.8	150	6.5	150	4.9	150	3.8	150	2.9	150	2.1	150	1.5	150
RTA	37	9G	12	150	9.1	150	7	150	5.5	150	4.4	150	3.4	150	2.6	150
RTA	37	8J	12.2	150	9.2	150	7.2	150	5.7	150	4.6	150	3.6	150	2.9	150
RTA	37	10G	16.7	200	13.1	200	10.3	200	8.2	200	6.5	200	5.2	200	4	200
RTA	37	10J	23.7	300	18.7	300	15	300	12.2	300	9.9	300	8.1	300	6.5	300
RTA	39	8G	6.3	150	4.4	150	3.2	150	2.4	150	1.7	150	1.1	150	0.7	150
RTA	39	9E	7.5	150	5.4	150	4	150	3	150	2.1	150	1.5	150	0.9	150
RTA	39	9G	10.5	150	7.8	150	6	150	4.6	150	3.5	150	2.7	150	2	150
RTA	39	8J	10.6	150	7.9	150	6.1	150	4.8	150	3.7	150	2.9	150	2.2	150
RTA	39	10G	14.9	200	11.6	200	9.1	200	7.1	200	5.6	200	4.3	200	3.2	200
RTA	39	10J	21.5	300	16.9	300	13.4	300	10.8	300	8.7	300	7	300	5.6	300
RTA	48	10J	12.6	300	9.7	300	7.5	300	5.8	300	4.4	300	3.2	300	2.2	300
RTA	50	10J	11.2	300	8.4	300	6.4	300	4.9	300	3.6	300	2.5	300	1.6	300

NOTE: AASHTO 2013 criteria is the most conservative existing EPA calculation. For poles not showing EPA values under AASHTO 2013, EPA values may exist under commercial criteria (see table below).

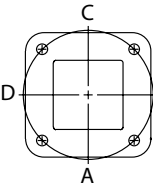
*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

RTA Round Tapered Aluminum Poles

BASE DETAIL



HANDHOLE ORIENTATION



Default DM19
is on side B.

Handhole

POLE DATA						
Shaft base size	Bolt circle A	Bolt projection B	Base square	Base plate thickness	Template description	Anchor bolt description
5"	7.75" - 8"	3.25"	9.61"	0.630"	ABTEMPLATE PJ50032	AB18-0
6"	9" - 10"	3.50"	10.32"	0.630"	ABTEMPLATE PJ50033	AB30-0
7"	10.13" - 11"	4.13"	11.26"	0.750"	ABTEMPLATE PJ50034	AB36-0
8"	11.26" - 12"	4.13"	12.05"	0.750"	ABTEMPLATE PJ50035	AB36-0
9"	12.50" - 14"	4.13"	12.48"	1.250"	Manufacturer Provided	AB36-0
10"G	14" - 15"	4.75"	14"	1.250"	ABTEMPLATE PJ50036	AB40-0
10"J	14" - 15"	5.25"	14"	1.250"	ABTEMPLATE PJ50063	AB48-0

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 factory template.
- 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.

CAUTION: These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



POLE-RTA