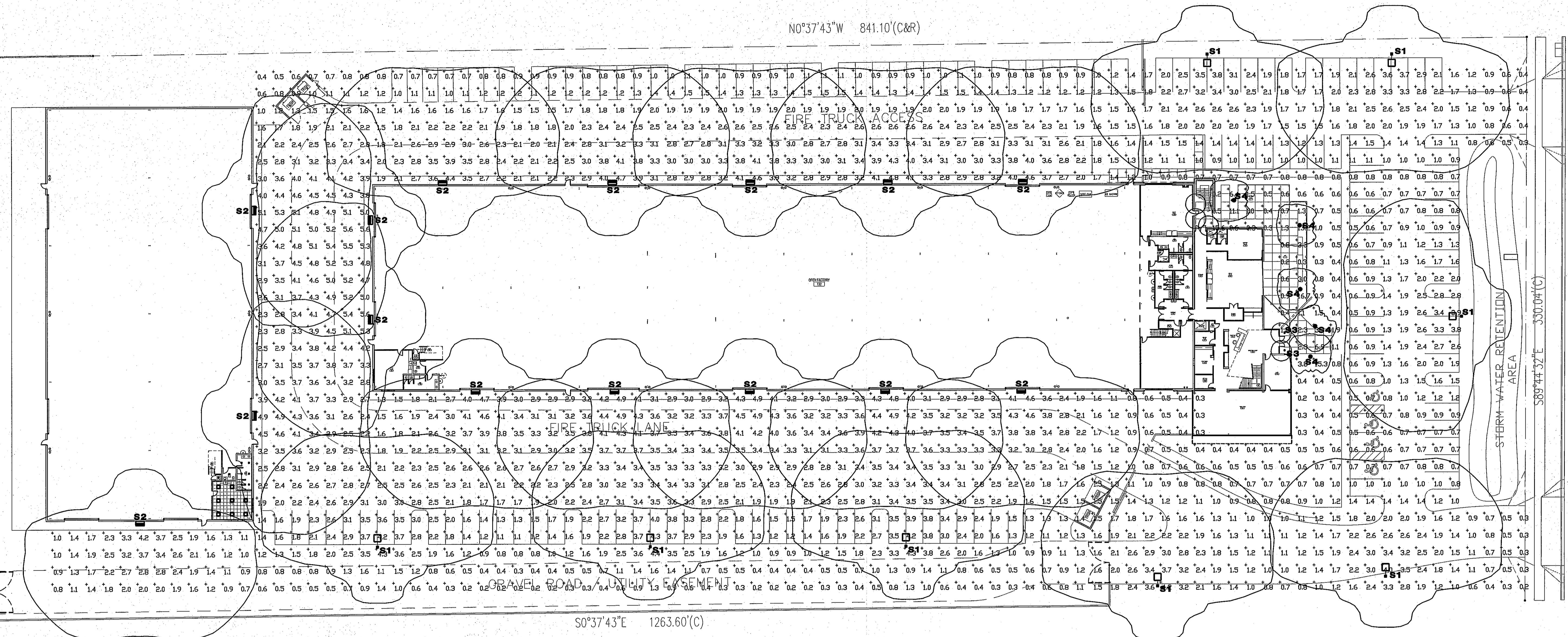


KI FABRICATION, INC.  
HEADQUARTERS AND FABRICATION  
MESA, ARIZONA

**HEADQUARTERS  
MESA, ARIZONA**

**HEADQUARTERS  
MESA, ARIZONA**



# **ELECTRICAL SITE PHOTOMETRIC PLAN**

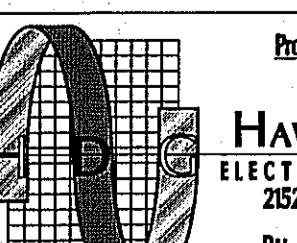
**SCALE: 1" = 30' - 0"**



Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
□ □	S1	8	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT SPA (FINISH) / SSS 22.5' POLE WITH 2.5' BASE	DSX1 LED P6 40K T4M MVOLT	LED - 4000K	18634	1	163
□	S2	15	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT WB (FINISH)	DSX1 LED P6 40K T4M MVOLT	LED - 4000K	18634	1	163
□	S3	5	V2 LIGHTING	Q4LS-D-V-W-10-83-40-51-(FINISH)	QUBE 400 LX LED SCONCE	LED - 4000K	1000	1	13
□	S4	5	Lithonia Lighting	DSXB LED 12C 530 40K ASY MVOLT (FINISH)	D-SERIES BOLLARD WITH 12 4000K LEDS OPERATED AT 530mA AND ASYMMETRIC DISTRIBUTION	LED - 4000K	1847	1	22

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FC & GRADE	+	2.1 fc	16.7 fc	0.2 fc	83.51	10.51

OTE:  
RE-CURFEW DESIGN HOURS SHALL BE DEFINED FROM NOT LATER THAN  
ONE HOUR AFTER BUSINESS CLOSING AND POST-CURFEW DESIGN HOURS  
SHALL BE DEFINED AS NOT EARLIER THAN ONE HOUR BEFORE BUSINESS  
OPENING. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY 35% DURING  
POST-CURFEW TO COMPLY WITH IECC 2018 C405.2.6. EXTERIOR LIGHTING  
CONTROLS.



Contact/Designer: MINDY ADLER

22

**KINS DESIGN GROUP INC.**  
**ICAL CONSULTING ENGINEERS**  
**OUTH VINEYARD AVE, SUITE 107**  
**MESA, ARIZONA 85210**  
**912-9000 Fax 480-912-0001**

**email@hawkinsdg.com**

On these drawings are the sole property of  
not be used for any other purpose other  
permission of the engineer.

xx.xx.xx

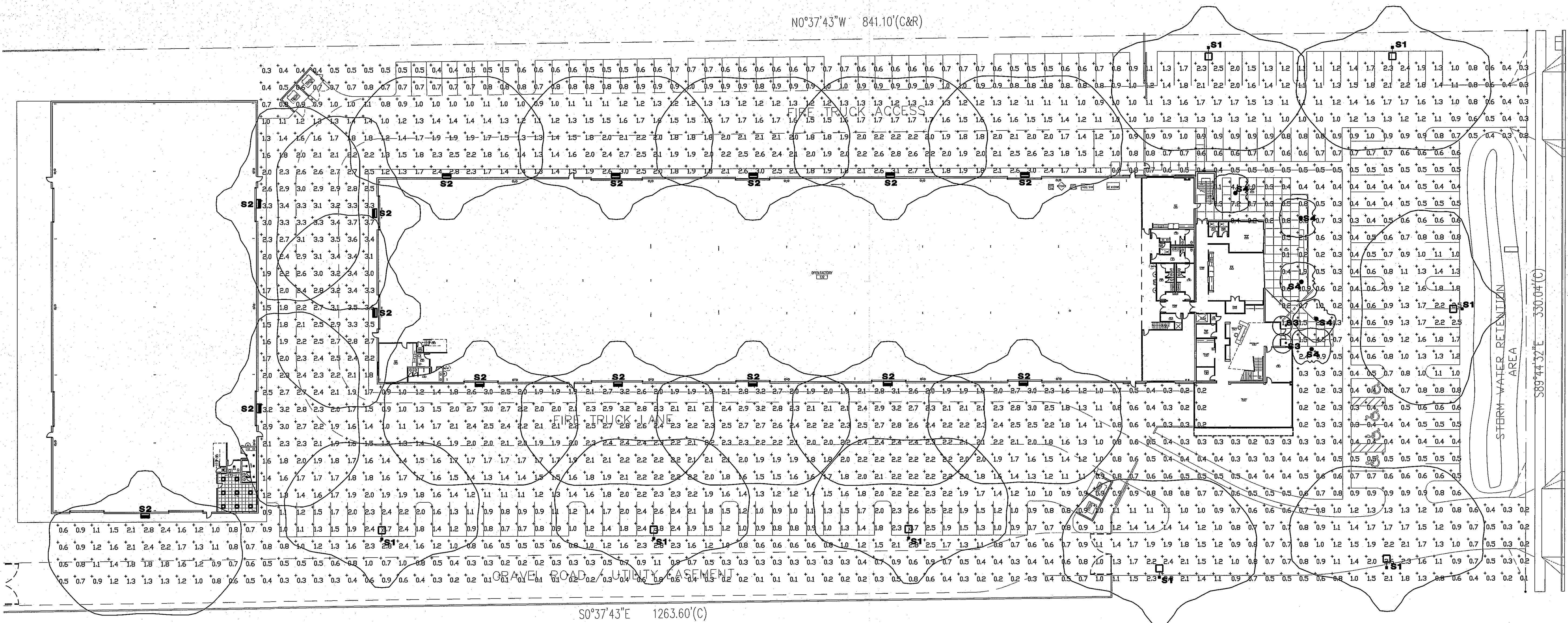
ES2.0

**ARCHITECTS**  
15 E Washington St.  
Phoenix, AZ 85034  
602.707.6240

**KIT FABRICATION, INC.**  
**HEADQUARTERS AND FABRICATION**  
**MESA, ARIZONA**

## **HEADQUARTERS MESA, ARIZONA**

## **HEADQUARTERS MESA, ARIZONA**



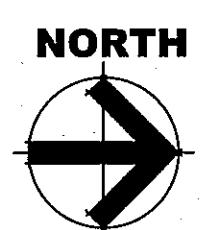
**PRELIMINARY NOT  
FOR CONSTRUCTION**

Expires: XX/XX/XX

Expires: XX/XX/XX

ELECTRICAL SITE POST PHOTOMETRIC PLAN

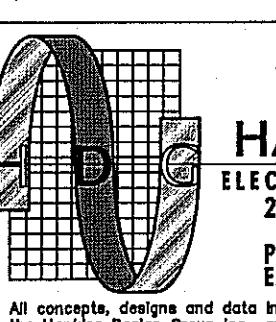
**SCALE: 1" = 30' - 0"**



Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
□ □	S1	8	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT SPA (FINISH) / SSS 22.5' POLE WITH 2.5' BASE	DSX1 LED P6 40K T4M MVOLT	LED - 4000K	18634	0.65	163
□	S2	15	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT WB (FINISH)	DSX1 LED P6 40K T4M MVOLT	LED - 4000K	18634	0.65	163
□	S3	5	V2 LIGHTING	Q4LS-D-V-W-10-83-40-51-(FINISH)	QUBE 400 LX LED SCIONCE	LED - 4000K	1000	0.65	13
□	S4	5	Lithonia Lighting	DSXB LED 12C 530 40K ASY MVOLT (FINISH)	D-SERIES BOLLARD WITH 12 4000K LEDS OPERATED AT 530mA AND ASYMMETRIC DISTRIBUTION	LED - 4000K	1847	0.65	22

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FC @ GRADE	+	1.4 fc	10.9 fc	0.1 fc	109.01	14.01

**NOTE:** PRE-CURFEW DESIGN HOURS SHALL BE DEFINED FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING AND POST-CURFEW DESIGN HOURS SHALL BE DEFINED AS NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY 35% DURING POST-CURFEW TO COMPLY WITH IECC 2018 C405.2.6. EXTERIOR LIGHTING CONTROLS



Contact/Designer: MINDY ADLER  
Project # 21022

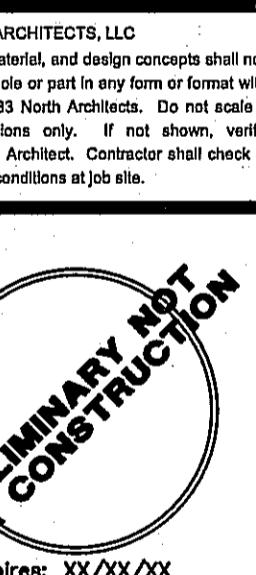
**KINS DESIGN GROUP INC.**  
SPECIAL CONSULTING ENGINEERS  
**10TH VINEYARD AVE, SUITE 107**  
**MESA, ARIZONA 85210**  
TEL 480 912 9000 FAX 480 912 9001

on these drawings are the sole property of  
I not be used for any other purpose other  
permision of the engineer.

xx.xx.xx

ES2.1





Expires: XX/XX/XX

©2018 33 NORTH ARCHITECTS, LLC

Drawings, written material, and design concepts shall not be used

or reproduced in whole or in part without prior written permission of 33 North Architects, LLC. All rights reserved.

Use given dimensions only. If not shown, verify correct

dimensions with the Architect. Contractor shall check and verify

all dimensions and conditions at job site.

1. EXT provided with battery housing.

2. A17°F (-3°C).

3. AFN is safety equipment, including emergency lighting, for paths of egress must be maintained, serviced, and tested in accordance with NFPA 101 National Fire Protection Association (NFPA) codes. Failure to perform the required maintenance, service, testing, and inspection may compromise the safety of occupants and result in fines and penalties.

4. Optimum ambient temperature range is 40°F to 100°F (-4°C to 38°C).

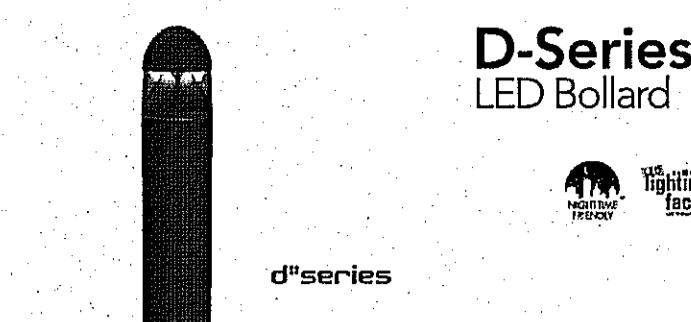
Higher and lower temperatures affect life expectancy. See spec package for expanded temperature ranges.

SHEET NAME

XX.XX.XX

ES3.1

### Fixture Type: 'S4'



**D-Series**  
LED Bollard

#### Specifications

Diameter: 8" Round  
(20.3 cm)  
Height: 42"  
(106.7 cm)  
Weight (max): 27 lbs  
(12.2 kg)

d'series

H  
D

Catalog Number
Notes
Type

At the top of each page is the page to give all instruction 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 DDBBX											
DSXB LED	Symbol	Series	Driver Current	Color Temperature	Photometrics	Dimensions	Voltages	Control Options	Other Options	Finish	
DSXB LED	Asymmetric 12C 1LEDs*	ASY	350	350 mA	30K - 300K	40K - 400K	ASY	Asymmetric	MVOLT <sup>1</sup>	Shipped Installed	DWHD White
			450	450 mA	50K	500K			PE	Single-lens photometric type	DNADX Nickel Brushed Nickel
	Symmetric 16C 16 LEDs*	AMBRPC	530	530 mA	AMBR	Amber phosphor converted wavelength <sup>2</sup>			208*	0-16V dim (no control)	DBOD Dark bronze
			700	700 mA					240*	DC/AC/EMC Emergency back-up	DBODX Tented dark brass
									277*	ELCW Emergency back-up	DBBLND Textured black
									347*	L/A/B L/A/B anchor bolts <sup>3</sup>	DNADX Textured aluminum brushed white
										DWHDG	

#### Accessories

Quoted and shipped separately.

MRABU Anchor bolts for DSXB\*

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.lithonia.com

© 2012-2017 Acuity Brands Lighting, Inc. All rights reserved.

#### 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 voltage may differ by +/- 8% when operating between 105-109V +/- 10%.

Series	Driver Current	Color Temperature	Photometrics	Dimensions	Voltages	Control Options	Other Options	Finish										
Asymmetric 12C 1LEDs	350	1,194	75	1	0	1,236	89	1	0	1,231	81	1	0	1	White			
	530	22	1,219	78	1	0	1	1,647	84	1	0	1	1,652	85	1	0	1	Black
	700	31	2,172	78	1	0	1	2,335	75	1	0	1	2,310	76	1	0	1	Dark bronze
Amber 450	16																	Brushed Nickel
	350	20	1,558	78	1	0	0	1,674	84	1	0	0	1,683	84	1	0	0	White
	530	28	2,232	80	2	0	1	2,337	86	2	0	1	2,412	86	2	0	1	Black
	700	39	2,602	72	2	0	1	3,069	77	2	0	1	3,028	78	2	0	1	Dark bronze
Amber 450	20																	Brushed Nickel

Note: Available with phosphor-converted amber LEDs (nomenclature AMBRPC). These LEDs 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

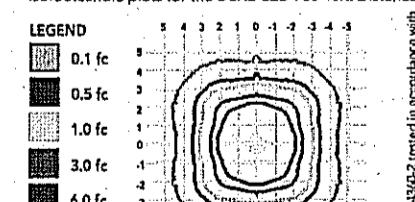
Data is based on projected lumen maintenance for the platforms noted in a 25% ambient, based on 10,000 hours of LED testing per IESNA LM-08 and projected per IESNA TM-21-11.

To calculate the lumen maintenance factor, take the projected to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Series	Driver Current	Color Temperature	Dimensions	Voltages	Control Options	Other Options	Finish											
12C 1LEDs	350	1,194	75	1	0	1,236	89	1	0	1,231	81	1	0	1	White			
	530	22	1,219	78	1	0	1	1,647	84	1	0	1	1,652	85	1	0	1	Black
	700	31	2,172	78	1	0	1	2,335	75	1	0	1	2,310	76	1	0	1	Dark bronze

#### Photometric Diagrams

To see complete photometric reports or download jas files for this product, visit Lithonia Lighting's D-Series Bollard homepage.



#### FEATURES & SPECIFICATIONS

##### INTENDED USE

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

##### CONSTRUCTION

One piece 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 alignment during installation. Three 1/4" x 1" anchor bolts with double nuts are standard and 2-5/8" max. bolt circle template ensure stability. Overall height is 42" standard.

##### FINISH

Exterior parts are painted by a zinc-rich paint during TOC100 process. Powder coat finish that provides maximum corrosion resistance 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 6% 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.

Lithonia Lighting, Inc. One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.lithonia.com  
© 2012-2017 Acuity Brands Lighting, Inc. All rights reserved.

DSXB LED Rev 2/6/17

### Fixture Type: 'EM'



#### FEATURES & SPECIFICATIONS

Appliance: This fixture is intended for use in areas where the risk of damage upon loss of power is minimal.

CONSTRUCTION — Compact, low-profile, architectural design with an extruded aluminum housing. All finishes are textured polyester powder coat paint in brushed nickel, white, black and dark bronze.

All finishes can be painted to match the wall color of choice.

All Patents No. 6468,046.

OPTICS — Standard optics provided with two high-brightness white LEDs (10.8W total), projecting an NEMA 1 compliant 3' wide x 28' forward, when mounted 8-1/2' A.F.T. The typical life of the fixture is 50,000 hours.

Forward throw (FWD) option optics provided with two high-brightness white LEDs (10.8W total), projecting an NEMA 1 compliant 3' wide x 28' forward, when mounted 8-1/2' A.F.T. The typical life of the fixture is 50,000 hours.

Upward throw (UP) option optics provided with two high-brightness white LEDs (10.8W total), projecting an NEMA 1 compliant 3' wide x 28' forward, when mounted 8-1/2' A.F.T. The typical life of the fixture is 50,000 hours.

Upward throw (UP) option optics provided with two high-brightness white LEDs (10.8W total), projecting an NEMA 1 compliant 3' wide x 28' forward, when mounted 8-1/2' A.F.T. The typical life of the fixture is 50,000 hours.

Upward throw (UP) option optics provided with two high-brightness white LEDs (10.8W total), projecting an NEMA 1 compliant 3' wide x 28' forward, when mounted 8-1/2' A.F.T. The typical life of the fixture is 50,000 hours.

Upward throw (UP) option optics provided with two high-brightness white LEDs (10.8W total), projecting an NEMA 1 compliant 3' wide x 28' forward, when mounted 8-1/2' A.F.T. The typical life of the fixture is 50,000 hours.

Upward throw (UP) option optics provided with two high-brightness white LEDs (10.8W total), projecting an NEMA 1 compliant 3' wide x 28' forward, when mounted 8-1/2' A.F.T. The typical life of the fixture is 50,000 hours.

Upward throw (UP) option optics provided with two high-brightness white LEDs (10.8W total), projecting an NEMA 1 compliant 3' wide x 28' forward, when mounted 8-1/2' A.F.T. The typical life of the fixture is 50,000 hours.