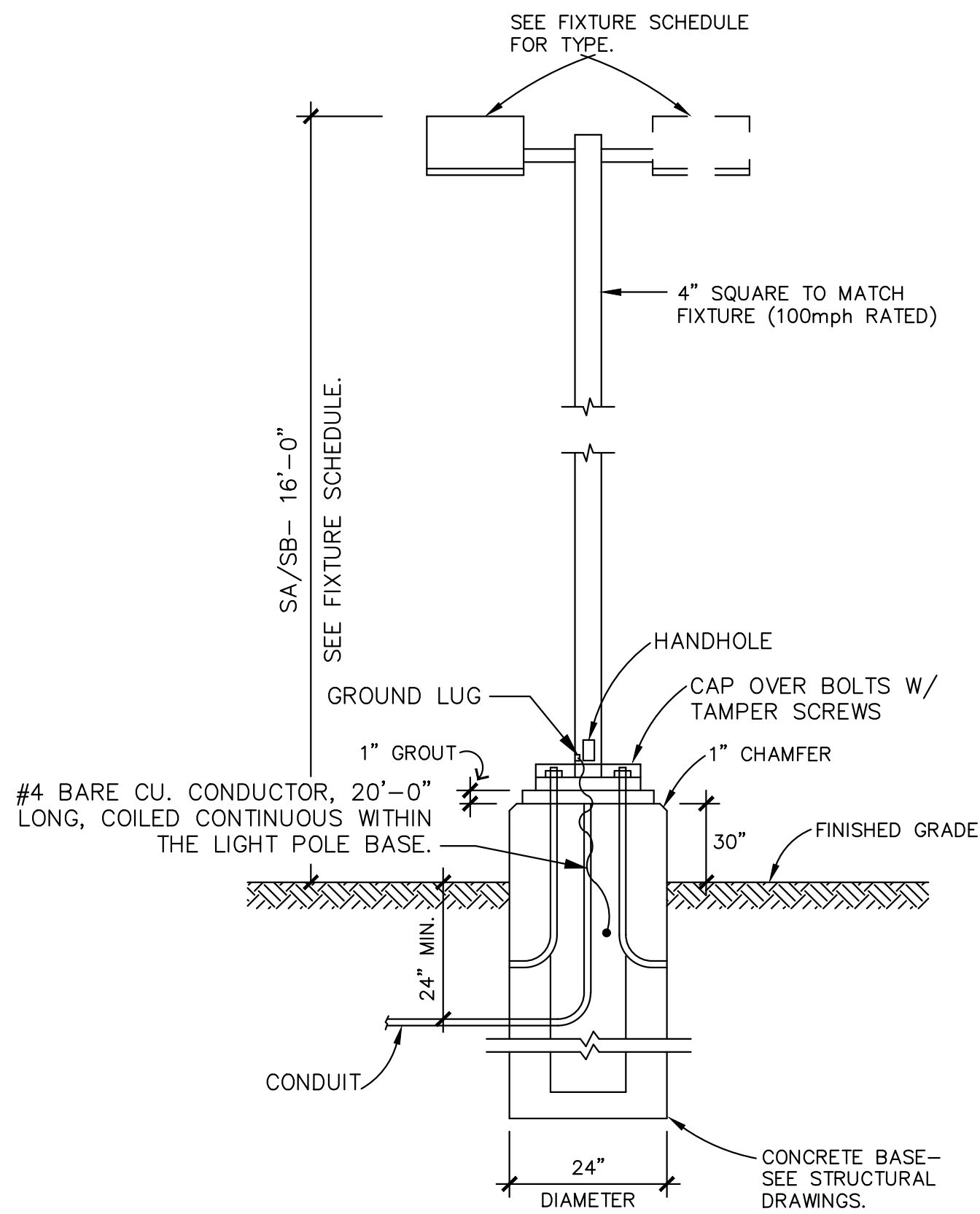




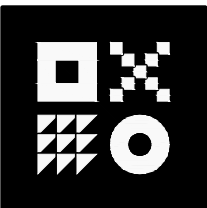
LIGHT POLE AND FIXTURE 'SA/SB'

NOTE: CONTRACTOR SHALL PROVIDE NEW POLE BASES WHERE INDICATED ON PLANS. LIGHTING FIXTURE POLE DETAILS AND DESCRIPTIONS ARE FOR ELECTRICAL REFERENCES ONLY. PLEASE REFER TO STRUCTURAL DRAWINGS FOR POLE BASE DETAILS.

N.T.S.

PHOTOMETRIC SITE PLAN

SCALE: 1"= 30'-0"



ARDEBILI
Engineering

Project Number: 20218 | Project Manager: JFO
8100 E Indian School Rd. Suite 205, Scottsdale, AZ 85251
P: 480.626.7072 | ardebilieng.com

design by: JFO
drawn by: BD
checked by: JFO

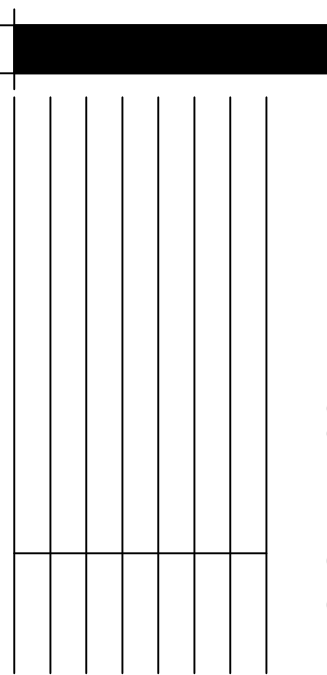
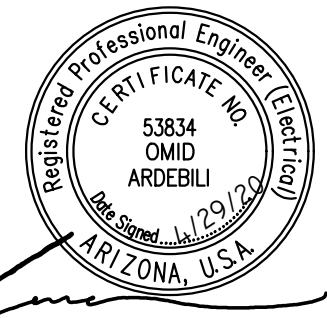
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project: 19087.00

114TH AND SHEA RETAIL

SWC OF 114TH STREET AND SHEA BLVD
SCOTTSDALE, ARIZONA 85259

DR SET SUBMITTAL



PHOTOMETRIC SITE PLAN

IRKAA
2233 E. THOMAS ROAD, PHOENIX, ARIZONA 85016
602-955-3900



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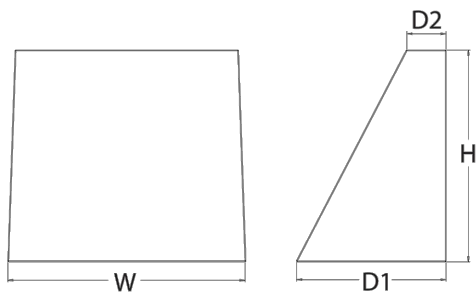


WDGE1 LED Architectural Wall Sconce



Specifications

Depth (D1): 5.5"
Depth (D2): 1.5"
Height: 8"
Width: 9"
Weight: 9 lbs
(without options)



Catalog Number	
Notes	
Type	SC

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

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution. WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

WDGE LED Family Overview

Luminaire	Standard EM, °C	Cold EM, -20 °C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P1	27K 2700K	80CRI	VF	MVOLT 347V	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) Shipped separately RWS 3/8inch Architectural wall spacer BBW Surface-mounted back box PBBW Premium surface-mounted back box (top, left, right, conduit entry)
	P2	30K 3000K	90CRI	VW		
		35K 3500K				
		40K 4000K				
		50K 5000K				

Options			Finish	
EWVH ¹	Emergency battery backup, UL compliant (4W, 0°C min)		DOBKO	Dark bronze
PE ⁴	PhotoCell, Button Type		DBLKD	Black
DS	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)		DNAKD	Natural aluminum
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)		DWAKD	White
BCE	Bottom conduit entry for premium back box (PBBW). Total of 4 entry points.		DSSTD	Sandstone
Accessories Chimes and shippable accessories			NOTES 1 50K not available in 90CRI. 4 PE not available with DS. 2 347V not available with EWVH, DS or PE. 5 Not qualified for DLC. Not available with EWVH. 3 EAWH not available with PE or DS.	
WDGEHS DDBXD U WDGE3 Black houseside shield (specify finish)				
WDGE1PBBW DDBXD U WDGE1 Premium surface-mounted back box (specify finish)				
WDGBW DDBXD U Surface-mounted back box (specify finish)				



COMMERCIAL OUTDOOR

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WDGE1 LED
Rev. 04/15/20

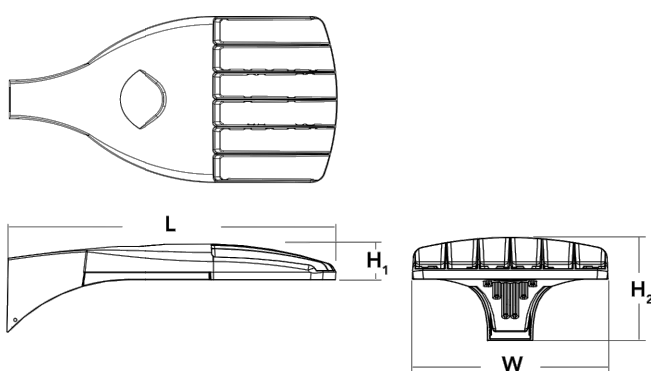


D-Series Size 0 LED Area Luminaire



Specifications

EPA: 0.95 ft² (0.09 m²)
Length: 26" (660 mm)
Width: 13" (330 mm)
Height: 3" (76 mm)
Height: 7" (178 mm)
Weight (max): 16 lbs (7.25 kg)

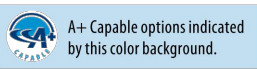


Catalog Number	
Notes	
Type	SA/SB

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

Introduction

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



Ordering Information

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

DSX0 LED							
Series	LEDs	Color temperature		Distribution		Voltage	Mounting
DSX0 LED	Forward optics		30K 3000 K	T1S	Type I short (Automotive)	T5S	Type V short ¹
	P1	P4	40K 4000 K	T2S	Type II short	T5M	Type V medium ¹
	P2	P5	50K 5000 K	T2M	Type II medium	T5W	Type V wide ¹
	P3	P6		T3S	Type III short	BLC	Backlight corner ¹
	Related optics			T3M	Type III medium	LCCD	Left corner cutoff ¹
	P10 ¹	P12 ¹		T4M	Type IV medium	RCCO	Right corner cutoff ¹
	P11 ¹	P13 ¹		TFTM	Forward throw medium		
				T5VS	Type V very short ¹		
	Shipped separately						
						KMA0 DDBXD U	Mask arm mounting bracket adaptor (specify finish) ²

Control options		Other options		Finish	
Shipped installed		PIR		Shipped installed	
NLTAIR2 Full-Gen AIIR generation 2 enabled ^{1,2,3}		PIRH High/Low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 3K-15K		HS House-side shield ⁴	
PIRHN Network, high/Low motion/ambient sensor ¹		PIRH High/Low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 3K-15K		SE Single face (132, 177, 347V) ¹	DOBKO Dark bronze
PER NEMA two-lock receptacle only (control ordered separately) ^{1,2}		PIRHFCV High/Low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 3K-15K		DF Double face (288, 240, 480V) ¹	DBLKD Black
PER Five-pin receptacle only (control ordered separately) ^{1,2,3}		PIRHFCV High/Low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 3K-15K		L90 Left rotated optics ¹	DNAKD Natural aluminum
PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separately) ^{1,2,3}		PIRHFCV High/Low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 3K-15K		R90 Right rotated optics ¹	DWBKO Textured dark bronze
DMG 0-10V dimming extend out back of housing for external control (control ordered separately) ¹		FAD Field adjustable output ^{1,2}		DOL Diffused drop lens ^{1,3}	DBLKD Textured black
		Shipped separately		DNAKD Diffused drop lens ^{1,3}	DNAKD Textured natural aluminum
		BS Blind grille ^{1,3}		DWAKD Textured white	
		EGS External glare shield		DWNGKO Textured white	



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DSX0 LED
Rev. 02/05/20
Page 1 of 8

Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage
	SA	5	Lithonia Lighting	(2) DSX0 LED P3 40K T5W MVOLT SPA (FINISH) / SSS 13.5' W/2.5' BASE	TWIN-HEAD DSX0 LED P3 40K T5W MVOLT	LED	DSX0_LED_P3_40K_T5W_MVOLT.ies	8712	0.91	142
	SB	3	Lithonia Lighting	DSX0 LED P3 40K TFTM MVOLT SPA HS (FINISH) / SSS 13.5' W/2.5' BASE	DSX0 LED P3 40K TFTM MVOLT with houseside shield	LED	DSX0_LED_P3_40K_TFTM_MVOLT_HS.ies	6595	0.91	71
	SC	17	Lithonia Lighting	WDGE1 LED P1 40K 80CRI VW MVOLT (FINISH)	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC	LED	WDGE1_LED_P1_40K_80CRI_VW.ies	1229	0.91	10.0002

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE - FC @ 6' AFG	✕	0.0 fc	0.2 fc	0.0 fc	N/A	N/A
SITE - FC @ GRADE	+	2.0 fc	6.1 fc	0.3 fc	20.3:1	6.7:1



COMcheck Software Version 4.1.1.0

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: 114TH AND SHEA RETAIL
Project Type: New Construction
Exterior Lighting Zone: 2 (Residential mixed use area)

Construction Site: SWC OF 114TH STREET AND SHEA BLVD SCOTTSDALE, AZ 85229
Owner/Agent:
Designer/Contractor: Ardebili Engineering, LLC 8100 E Indian School Rd. Suite 205 Scottsdale, AZ 85251 480.626.7072 info@ardebiling.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	48230 ft2	0.04	Yes	1929
		Total Tradable Watts (a) =		1929
		Total Allowed Watts =		1929
		Total Allowed Supplemental Watts (b) =		400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking area (48230 ft2): Tradable Wattage				
LED 1: SA: DOUBLE POLE LIGHT: Other:	2	5	142	710
LED 2: SB: SINGLE POLE LIGHT: Other:	1	3	71	213
LED 3: SC: WALL PACK: Other:	1	17	10	170
Total Tradable Proposed Watts =				1093

Exterior Lighting PASSES: Design 53% better than code

Exterior Lighting Compliance Statement

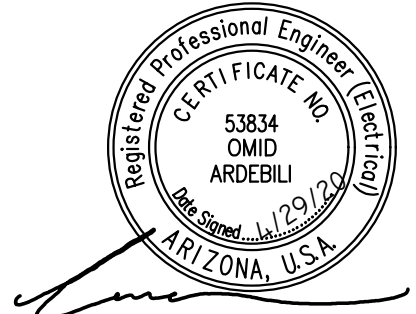
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

OMD ARDEBILI, PE
Name - Title
Signature
Date 04/29/20

Project Title: 114TH AND SHEA RETAIL
Data filename: C:\Users\PC-3\Desktop (Ardebili Engineering)\20218_RKAA_114th & Shea Retail\01_Construction Documents\ENERGYIECC_E_DR.cck
Report date: 04/30/20
Page 1 of 5



RKAA
2233 E. THOMAS ROAD, PHOENIX, ARIZONA 85016
602-955-3900
RKAA.com



IECC & EXTERIOR CUT SHEETS

114TH AND SHEA RETAIL

SWC OF 114TH STREET AND SHEA BLVD
SCOTTSDALE, ARIZONA 85259

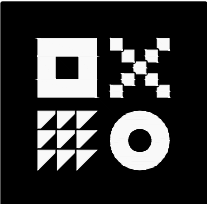
DR SET SUBMITTAL

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design by: JFO
drawn by: BD
checked by: JFO

E0.1

project: 19087.00



ARDEBILI
Engineering

Project Number: 20218 | Project Manager: JFO
8100 E Indian School Rd. Suite 205, Scottsdale, AZ 85251
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5/22/2020