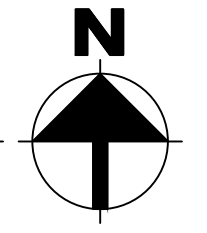


ELECTRICAL SITE LIGHTING PLAN

SCALE: 1" = 40'-0"



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 NOT LES THAN 35% DURING POST-CURFEW TO COMPLY WITH IECC 2018 C405.2.6. EXTERIOR LIGHTING CONTROLS.

GENERAL NOTES - SITE

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
- ELECTRICAL CONTRACTOR SHALL CONTACT TELEPHONE COMPANY REGARDING EXACT LOCATION OF ALL PRIMARY SERVICE EQUIPMENT, TRENCH LOCATION, ETC.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE TRENCHING, BACKFILL AND CONDUIT STUBS INTO TRENCH AS REQUIRED BY TELEPHONE COMPANY AND TO THEIR SPECIFICATIONS.
- ALL WIRING FOR OUTSIDE LIGHTING SHALL BE A MINIMUM OF #10 COPPER WITH TYPE THWN INSULATION. RUN UNDERGROUND CIRCUITS IN P.V.C. AND PROVIDE A #10 COPPER BOND IN ADDITION TO CIRCUIT CONDUCTORS. UNDERGROUND WIRING SHALL COMPLY WITH APPLICABLE CODES OF THE NEC.
- ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY SECONDARY CONDUCTORS, POWER TRENCHING, BACKFILL AND CONCRETE PADS FOR TRANSFORMERS AND SERVICE EQUIPMENT. ADDITIONALLY PROVIDE CONDUIT STUBS INTO TRENCH PER POWER COMPANY SPECIFICATIONS AND REQUIREMENTS.
- ALL WIRING SHALL BE COPPER. WIRING #4 AWG AND LARGER SHALL BE XHHW TYPE INSULATION.

UTILITY COMPANY NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH SERVING UTILITY COMPANY AND THEIR SPECIFIC REQUIREMENTS WITHIN (5) DAYS OF AWARD OF CONTRACT.
- PROVIDE SERVING UTILITY COMPANY WITH ONE (1) FULL SET OF PLANS INCLUDING SITE PLAN, ONE-LINE DIAGRAM, AND TOTAL LOAD SUMMARY.
- CONFIRM ALL UTILITY COMPANY REQUIREMENTS PRIOR TO TRENCHING.
- CONTRACTOR SHALL COORDINATE WITH SERVING UTILITY COMPANY IF AN UPGRADE IS REQUIRED TO UTILITY TRANSFORMER OR SECONDARY CONDUIT AND CONDUCTORS.
- CONTRACTOR SHALL COORDINATE EXACT COSTS (PER AMP CHARGE, ECT.) OF ANY ADDITIONAL WORK WITH SERVING UTILITY COMPANY PRIOR TO START OF CONSTRUCTION.

UTILITY COMPANY CONTACT
 Power Company: SRP
 Representative: SRP BUSINESS CENTER
 Telephone #: (602) 236-8833

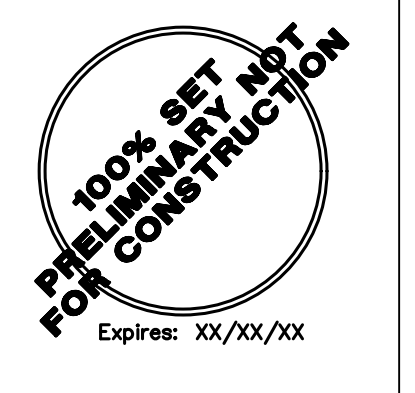
PRIOR TO ANY GROUND EXCAVATION CALL BLUE STAKE
 (602) 263-1100
 (800) 782-5348

LUMINAIRE SCHEDULE

- PROVIDE 90 MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
- MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE.
- BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT, ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED WITH WRITTEN OWNER APPROVAL & AN ITEMIZED DEDUCT TO BASE BID.
- ALTERNATE FIXTURE SELECTIONS MAY REQUIRE ADDITIONAL TIME FOR SUBMITTAL REVIEW & POSSIBLE ENGINEERING DESIGN CHANGES, TO BE BILLED TO THE CONTRACTOR.
- PROVIDE MINIMUM 10 MINUTE TIME DELAY ON EMERGENCY FIXTURES WHEN HID AREA LIGHTING IS USED.

MARK	MANUFACTURER MODEL NUMBER	VOLTS	LAMPS CR/ CCT INPUT WATTS	REMARKS/MOUNTING
SA	Lithonia Lighting WDE2-LED-P4-40K 80CRI-VW-E4WH	MVOLT	LED 80/4000K 10W	WALL MOUNTED LED AREA LIGHT. PROVIDE WITH 90 MINUTE BATTERY BACKUP WHERE NOTED 'EM'. OVER DOOR MOUNT AT 10'
SB	Lithonia Lighting WDE3-LED-P4 70CRI-RFT-30K	MVOLT	LED 70/3000K 88W	WALL MOUNTED LED AREA LIGHT. WALL MOUNT AT 25' TO MATCH EXISTING BUILDING.

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 ARCHITECTURE
 PLANNING
 INTERIORS
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 Phoenix, AZ 85016
 P 480.767.1001



METSO

8223 EAST PECOS ROAD
 MESA, ARIZONA, 85212

ELECTRICAL SITE LIGHTING PLAN

DATE	REMARKS
12/22/2023	PRE-SUBMITTAL
02/19/2024	P&Z SUBMITTAL
02/22/2024	DR SUBMITTAL
05/06/2024	DR AND P&Z SUBMITTAL
06/03/2024	DR AND P&Z 2ND SUBMITTAL

PA/PM:	AG/CRC
DRAWN BY:	CRC
JOB NO.:	IRV00-0000-00

SHEET

DR1.0

DESIGN CODES
 IECC, 2018 NEC, 2017

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PRELIMINARY NOT FOR CONSTRUCTION

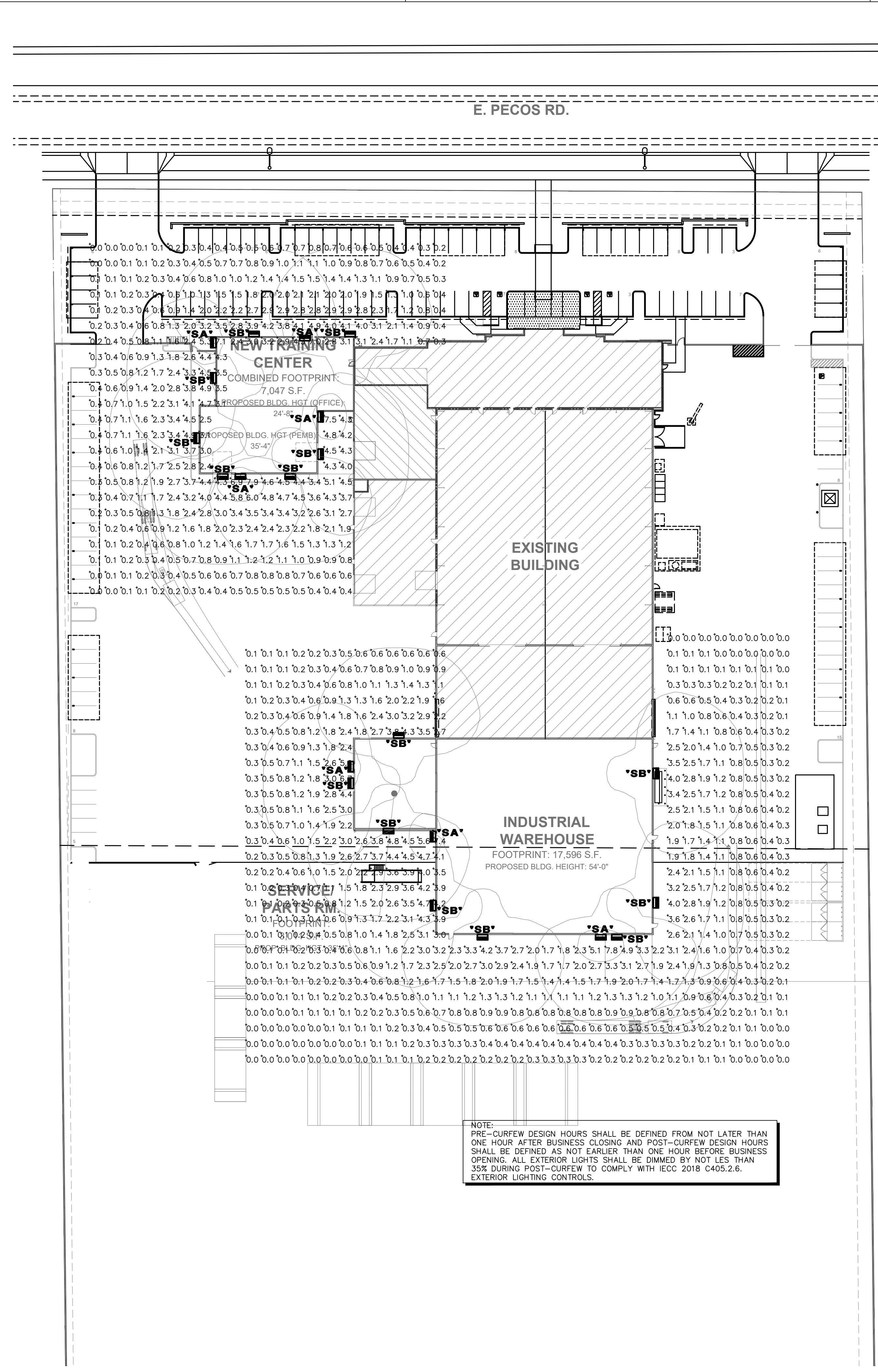
Project Contact/Designer: **Chad Curry**
 Project # 23494
HAWKINS DESIGN GROUP INC.
 ELECTRICAL CONSULTING ENGINEERS
 140 WEST HARVELL ROAD
 GILBERT, ARIZONA 85233
 Ph. 480.813.9000 Fax: 480.813.9001
 Email: chad@hawkinsdg.com
All concepts, designs and data indicated on these drawings are the sole property of the Hawkins Design Group Inc., and shall not be used for any other purpose other than originally intended without written permission of the engineer.

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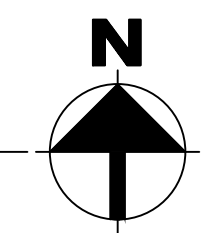
Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
SA	SA	7	LITHONIA	WDGE1 LED P1 40K 80CRI VW E4WH / OVER DOOR MOUNT AT 10'	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC. INTEGRAL BATTERY BACKUP	1	1229	0.91	10.0002
SB	SB	15	LITHONIA	WDGE3 LED P4 70CRI RFT 30K / WALL MOUNT AT 25' TO MATCH EXISTING BUILDING	WDGE3 LED WITH P4 - PERFORMANCE PACKAGE, 4000K, 70CRI, FORWARD THROW OPTIC	1	12277	0.91	87.8914

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FC ON SITE AT GRADE	+	1.3 fc	7.9 fc	0.0 fc	N/A	N/A



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 NOT LESS THAN 35% DURING POST-CURFEW TO COMPLY WITH IECC 2018 C405.2.6. EXTERIOR LIGHTING CONTROLS.

PRE-CURFEW PHOTOMETRICS
 SCALE: 1" = 40'-0"



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PRE-CURFEW PHOTOMETRICS	
DATE	REMARKS
12/22/2023	PRESUBMITTAL
02/19/2024	P&Z SUBMITTAL
02/22/2024	DR SUBMITTAL
05/06/2024	DR AND P&Z SUBMITTAL
06/03/2024	DR AND P&Z 2ND SUBMITTAL

PA/PM:	AG/CRC
DRAWN BY:	CRC
JOB NO.:	IRV00-0000-00

SHEET
DR2.0

DESIGN CODES
 IECC, 2018 NEC, 2017

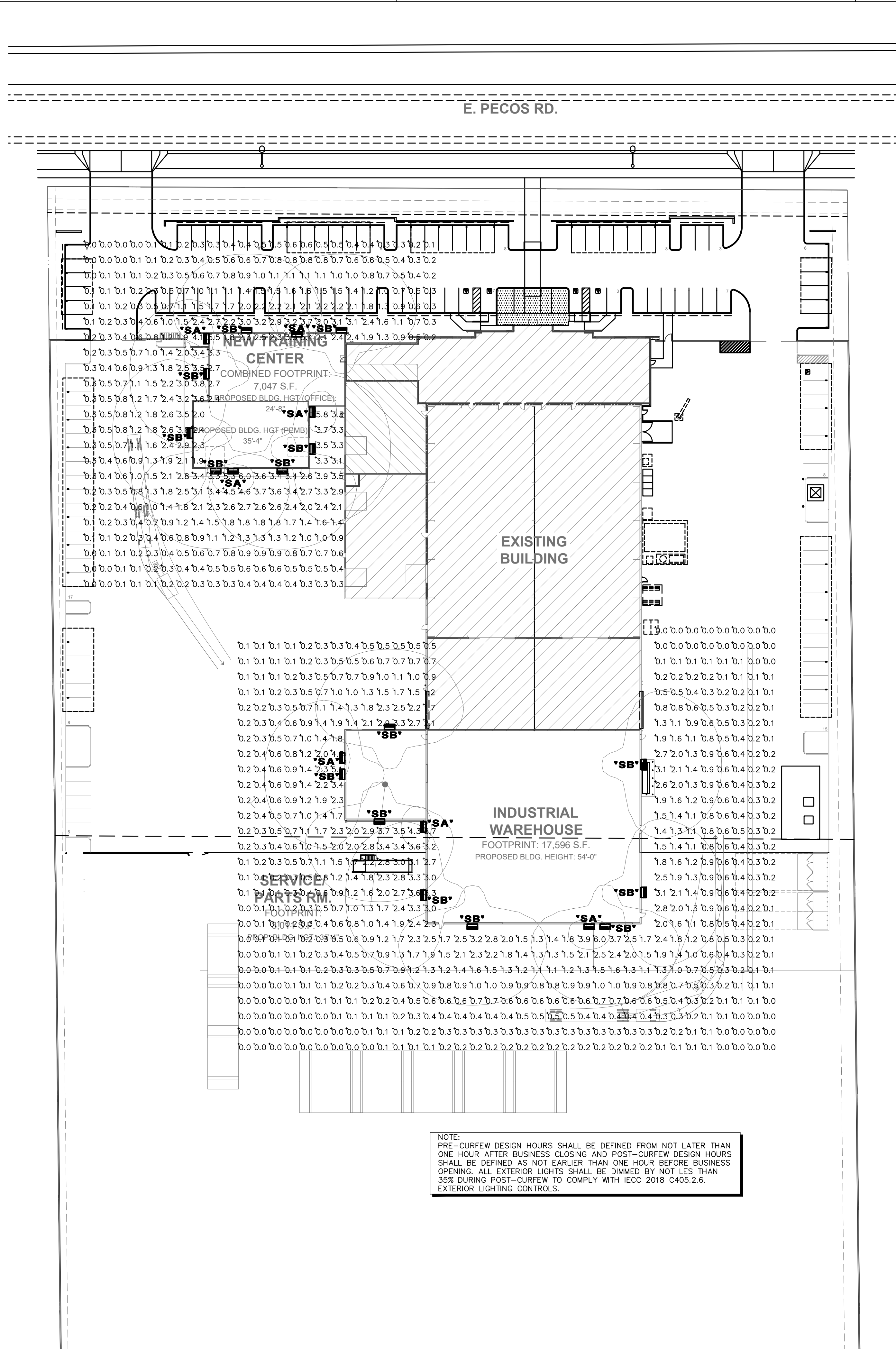
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Project Contact/Designer: **Chad Curry**
 Project # 23494
HAWKINS DESIGN GROUP INC.
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 Ph. 480.813.9000 Fax: 480.813.9001
 EMAIL: chad@hawkinsdg.com

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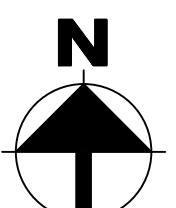


Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
SA	SA	7	LITHONIA	WDGE1 LED P1 40K 80CRI VW E4WH / OVER DOOR MOUNT AT 10'	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC. INTEGRAL BATTERY BACKUP	1	1229	0.7	10.0002
SB	SB	15	LITHONIA	WDGE3 LED P4 70CRI RFT 30K / WALL MOUNT AT 25' TO MATCH EXISTING BUILDING	WDGE3 LED WITH P4 - PERFORMANCE PACKAGE, 4000K, 70CRI, FORWARD THROW OPTIC	1	12277	0.7	87.8914

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FC ON SITE AT GRADE	+	1.0 fc	6.0 fc	0.0 fc	N/A	N/A

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POST-CURFEW PHOTOMETRICS
 SCALE: 1" = 40'-0"



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POST-CURFEW PHOTOMETRICS	
DATE	REMARKS
12/22/2023	PRESUBMITTAL
02/19/2024	P&Z SUBMITTAL
02/22/2024	DR SUBMITTAL
05/06/2024	DR AND P&Z SUBMITTAL
06/03/2024	DR AND P&Z 2ND SUBMITTAL

PA/PM:	AG/CRC
DRAWN BY:	CRC
JOB NO.:	IRV00-0000-00

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DESIGN CODES
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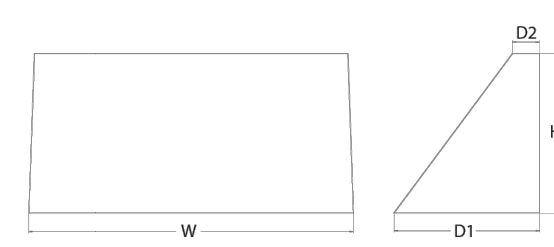
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WDGE3 LED Architectural Wall Sconce



Specifications
 Depth (D1): 8"
 Depth (D2): 1.5"
 Height: 9"
 Width: 18"
 Weight: 19.5 lbs (without options)



Category Number: **TYPE: 'SB'**
 Notes:
 Type: **TYPE: 'SB'**

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 rectangular design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance. WDGE3 has been designed to deliver up to 12,000 lumens through a precision refractive lens with wide distribution, perfect for augmenting the lighting from pole-mounted luminaires.

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)							
				P1	P2	P3	P4	P5	P6	P7	P8
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	6,000	7,500	8,500	10,000	12,000	—	—	—
WDGE4 LED	—	—	—	—	12,000	16,000	18,000	20,000	22,000	25,000	—

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	Shipped included	Shipped separately
WDGE3 LED	P1	30K 3000K	70CRI	R2 Type 2	120V	SM	SMW	3/8" Architectural wall spacer
	P2	40K 4000K	80CRI	R3 Type 3	347V	SM	SMW	Surface mounting bracket
	P3	50K 5000K	—	R4 Type 4	480V	SM	ICW	Surface-mounted back box (top, left, right, center entry) (ie when there is no junction box available)
	P4	—	—	R7 Forward Throw	—	SM	ICW	Surface-mounted back box (top, left, right, center entry) (ie when there is no junction box available)

Options	Standalone Sensors/Controls	Finish
E1SWH	Emergency battery backup, Certified in CA Title 20 MAERS (15W, 5°C min)	00B00 Dark bronze
E2DWC	Emergency battery backup, Certified in CA Title 20 MAERS (18W, -20°C min)	00B10 Black
PE	PhotoCell, Button Type	00A00 Natural aluminum
DWG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	00W40 White
BCE	Bottom conduct entry for back box (PBWB), Total of 4 entry points.	00S00 Sandstone
SPD10V	10V Surge pack	00B20 Textured dark bronze
BAA	Buy America(s) Act Compliant	00B30 Textured black
		00A10 Textured natural aluminum
		00W50 Textured white
		00S10 Textured sandstone

Accessories
 WDGE3S 00B00 WDGE3 Standalone Wall Spacer (specify finish)
 WDGE3PBWB 00B00 WDGE3 Surface-mounted back box (specify finish)

NOTES
 1. 347V and 480V not available with E1SWH and E2DWC.
 2. Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
 3. PE not available in 480V and with sensors/controls.
 4. DMG option not available with sensors/controls.
 5. Not available with E2DWC option.
 6. Available with MVOLT only and only rated to 25C ambient temperature.

LITHONIA LIGHTING COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com WDGE3 LED Rev. 11/16/23 © 2019-2023 Acuity Brands Lighting, Inc. All rights reserved.

Performance Data

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

Performance Package	System Watts	Dist. Type	SR - 4000K, 70 CRI					SR - 4000K, 70 CRI					SR - 5000K, 80 CRI				
			Lumens	LPW	U	T	U	Lumens	LPW	U	T	U	Lumens	LPW	U	T	U
P0	41W	R2	6,172	151	1	0	1	6,104	149	2	0	1	6,394	156	2	0	1
		R3	6,071	148	1	0	2	6,004	146	1	0	2	6,290	153	1	0	2
		R4	6,256	153	1	0	2	6,187	151	1	0	2	6,481	158	1	0	2
		R7F	6,126	149	1	0	2	6,058	148	1	0	2	6,347	155	1	0	2
		R7T	7,837	196	1	0	1	7,649	188	2	0	1	7,649	188	2	0	1
P1	52W	R2	6,922	134	1	0	2	7,524	145	1	0	2	7,524	145	1	0	2
		R3	7,133	138	1	0	2	7,753	150	1	0	2	7,753	150	1	0	2
		R4	6,985	135	1	0	2	7,592	147	1	0	2	7,592	147	1	0	2
		R7	7,568	132	2	0	1	8,661	147	2	0	1	8,661	147	2	0	1
		R7T	7,838	133	1	0	2	8,579	144	1	0	2	8,579	144	1	0	2
P2	59W	R2	8,077	137	1	0	2	8,779	149	1	0	2	8,779	149	1	0	2
		R3	7,909	134	1	0	2	8,597	146	2	0	2	8,597	146	2	0	2
		R4	8,404	132	2	0	1	10,223	143	2	0	1	10,223	143	2	0	1
		R7	9,250	130	2	0	2	10,054	141	2	0	2	10,054	141	2	0	2
		R7T	9,532	134	2	0	2	10,363	145	2	0	2	10,363	145	2	0	2
P3	71W	R2	9,334	131	2	0	2	10,146	142	2	0	2	10,146	142	2	0	2
		R3	11,380	129	2	0	1	12,369	140	2	0	1	12,369	140	2	0	1
		R4	11,194	127	2	0	2	12,167	138	2	0	2	12,167	138	2	0	2
		R7	11,535	131	2	0	2	12,538	142	2	0	2	12,538	142	2	0	2
		R7T	11,295	128	2	0	2	12,277	139	2	0	2	12,277	139	2	0	2
P4	88W	R2	11,380	129	2	0	1	12,369	140	2	0	1	12,369	140	2	0	1
		R3	11,194	127	2	0	2	12,167	138	2	0	2	12,167	138	2	0	2
		R4	11,535	131	2	0	2	12,538	142	2	0	2	12,538	142	2	0	2
		R7	11,295	128	2	0	2	12,277	139	2	0	2	12,277	139	2	0	2
		R7T	11,295	128	2	0	2	12,277	139	2	0	2	12,277	139	2	0	2

Option	Dist. Type	Lumens
E1SWH	R2	3,185
	R3	3,133
	R4	3,229
	R7	3,162
	R7T	3,669
E2DWC	R3	3,609
	R4	3,719
	R7	3,642

Ambient	32°F	Lumen Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

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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)



Category Number: **TYPE: 'SA'**
 Notes:
 Type: **TYPE: 'SA'**

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 rectangular 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.

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)							
				P1	P2	P3	P4	P5	P6	P7	P8
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	—	—	—	—	12,000	16,000	18,000	20,000	22,000	25,000	—

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	Shipped included	Shipped separately
WDGE1 LED	P0	27K 2700K	80CRI	VF Visual comfort forward throw	120V	SM	SMW	3/8" Architectural wall spacer
	P2	30K 3000K	90CRI	VW Visual comfort wide	347V	SM	SMW	Surface-mounted back box (top, left, right, center entry) (ie when there is no junction box available)

Options	Standalone Sensors/Controls	Finish
E4WH	Emergency battery backup, Certified in CA Title 20 MAERS (4W, 0°C min)	00B00 Dark bronze
PE	PhotoCell, Button Type	00B10 Black
DG	0-10V dimming wires with 2-dimmer and 2-light engines; see page 1 for details.	00A00 Natural aluminum
BCE	Bottom conduct entry for back box (PBWB), Total of 4 entry points.	00W40 White
BAA	Buy America(s) Act Compliant	00S00 Sandstone
DSE	Dual Switching (1 Drive, 2 Light Engines)	00B20 Textured dark bronze
		00B30 Textured black
		00A10 Textured natural aluminum
		00W50 Textured white
		00S10 Textured sandstone

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Performance Data

Lumen Output
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Performance Package	System Watts	Dist. Type	SR - 2700K, 80 CRI					SR - 3000K, 90 CRI					SR - 4000K, 80 CRI					SR - 5000K, 80 CRI						
			Lumens	LPW	U	T	U	Lumens	LPW	U	T	U	Lumens	LPW	U	T	U	Lumens	LPW	U	T	U		
P0	7W	VF	693	99	0	0	0	718	103	0	0	0	759	108	0	0	0	764	109	0	0	0	0	
		VW	694	99	0	0	0	720	103	0	0	0	760	109	0	0	0	766	109	0	0	0	0	
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0	0	0
P2	15W	VF	1,886	126	1	0	0	1,972	125	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0	0	0
		VW	1,889	126	1	0	0	1,976	125	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0	0	0

Performance Package	System Watts	120V	208V	240V	277V	347V
P1	10W	0.082	0.049	0.043	0.038	—
	15W	—	—	—	—	0.046
	15W	0.132	0.081	0.072	0.064	—
	18W	—	—	—	—	0.056

Option	Dist. Type	Lumen Multiplier
E4WH	VF	0.945
	VW	0.967
	VF	0.965
	VW	0.985
	VW	0.898

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

DESIGN CODES
 IECC, 2018 NEC, 2017

ELECTRICAL CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER PRIOR TO ANY DEVIATION FROM THIS SET OF ELECTRICAL DESIGN PLANS. ANY CHANGES TO THE DESIGN, IF APPROVED BY ENGINEER, WILL REQUIRE REVISIONS TO PLANS AND POSSIBLE ADDITIONAL SERVICE FEE.