Exhibit D – Photometric Plan with Proposed Lighting

Starbucks Warm Dark Shell
0 S. Virginia St. Reno, NV 89511

Designer
Date: 10/04/2023
Scale: Not to Scale
Drawing No.:
Summary

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #2	+	7.2 fc	125.1 fc	0.1 fc	1251.0:1	72.0:1

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Input Power	Lumen Output
▢	SP1	1	Cree Inc	ARE-EDG-3MB-xx-DI-S-UL-xx-525xxxx40K	Cree Edge Area, Type III Medium IV/BLS, 60 LEDs, 525mA, 4000K	102.45	6,575
▢	SP2	3	Cree Inc	ARE-EDG-4MB-xx-13-E-UL-xx-525xxxx40K	Cree Edge Area, Type IV Medium w/ BLS, 60 LEDs, 525mA, 4000K	202.00	13,118
◯	B	8	KOHLER	25831*2 MPDR11310DCP313008	LED WALL CYLINDER	11.2	350
▢	SP3	3	Cree Inc	ARE-EDG-5M-xx-13-E-UL-xx-525xxxx40K	Cree Edge Area, Type V Medium, 60 LEDs, 525mA, 4000K	202.00	18,300
▢	SP4	3	Cree Inc	ARE-EDG-4MB-xx-DI-S-UL-xx-525xxxx40K	Cree Edge Area, Type IV Medium w/ BLS, 60 LEDs, 525mA, 4000K	102.72	6,575
▮	D	1073 (1073")	WAC Lighting	T24-O1-UD-40	LED Tape Light	1.2340S	108lumen/ft
▮	A	1	Lithonia Lighting	WST LED P1 30K VF MVOLT	WST LED, Performance package I, 3000 K, visual comfort forward throw, MVOLT	1539	1,494

TOTAL LUMEN OUTPUT: 134,008

Plan View
Scale = 1" = 32'
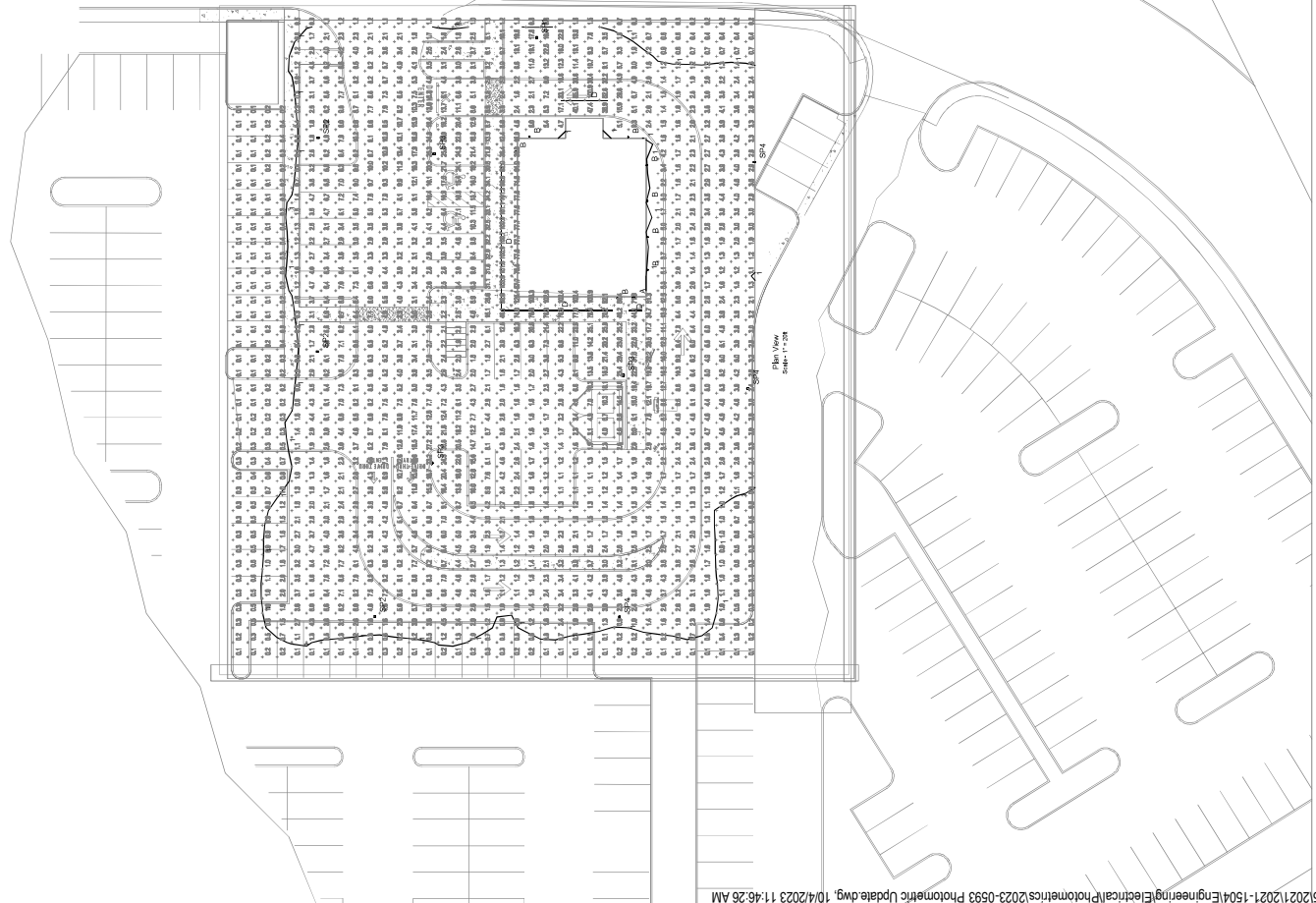
WST LED
Architectural Wall Sconce

CERTIFIED IN TITLE 20 | NIGHTTIME FRIENDLY | CA+ CAPABLE | BAA

Specifications
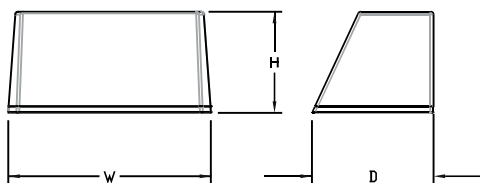
Luminaire

Height: 8-1/2"
(21.59 cm)

Width: 17"
(43.18 cm)

Depth: 10-3/16"
(25.9 cm)

Weight: 20 lbs
(9.1 kg)

A+ Capable options indicated by this color background.

Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixilated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED					
Series	**Performance Package**	**Color temperature**	**Distribution**	**Voltage**	**Mounting**
WST LED	P1 1,500 Lumen package	27K 2700 K	VF Visual comfort forward throw	MVOLT[1] 277[2]	**Shipped included**
	P2 3,000 Lumen package	30K 3000 K	VW Visual comfort wide	120[2] 347[2]	(blank) Surface mounting bracket
	P3 6,000 Lumen package	40K 4000 K		208[2] 480[2]	PBBW Premium surface-mounted back box[3,4]
		50K 5000 K		240[2]	**Shipped separately**
					BBW Surface-mounted back box[3]

Options		Finish *(required)*	
NLTAIR2 PIR	nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights[5,6,7]	DDBXD	Dark bronze
NLTAIR2 PIRH	nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights[5,6,7]	DBLXD	Black
PE	Photoelectric cell, button type[8]	DNAXD	Natural aluminum
PER	NEMA twist-lock receptacle only (controls ordered separate)[9]	DWHXD	White
PER5	Five-wire receptacle only (controls ordered separate)[9]	DSSXD	Sandstone
PER7	Seven-wire receptacle only (controls ordered separate)[9]	DDBTXD	Textured dark bronze
PIR	Motion/Ambient Light Sensor, 8-15' mounting height[5,6]	DBLBXD	Textured black
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[5,6]	DNATXD	Textured natural aluminum
PIRH	180° motion/ambient light sensor, 15-30' mounting height[5,6]	DWHGXD	Textured white
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[5,6]	DSSTXD	Textured sandstone
SF	Single fuse (120, 277, 347V)[2]		
DF	Double fuse (208, 240, 480V)[2]		
DS	Dual switching[10]		
DMG	0-10V dimming extend out back of housing for external control (control ordered separate)[11]		
E7WH	Emergency battery backup, Non CEC compliant (7W)[7]		

E7WC	Emergency battery backup, CA Title 20 Noncompliant (cold, 7W)[7,12]	
E7WHR	Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W)[7,13]	
E20WH	Emergency battery pack 18W constant power, Certified in CA Title 20[7]	
E20WC	Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS[7,12]	
E23WHR	Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W)[7,12,14]	
LCE	Left side conduit entry[15]	
RCE	Right side conduit entry[15]	
BAA	Buy America(n) Act Compliant	

Shipped separately

RBPW	Retrofit back plate[3]
VG	Vandal guard[15]
WG	Wire guard[15]

See Accessories and Notes on next page.

Accessories

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW DDBTXD U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)[17]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)[17]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)[17]

NOTES

1   MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
2   Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
3   Also available as a separate accessory; see accessories information.
4   Top conduit entry standard.
5   Not available with VG or WG. See PER Table.
6   Reference Motion Sensor table.
7   Not available 347/480. E7WC or E23WHR, only available 120 or 277.
8   Need to specify 120, 208, 240 or 277 voltage.
9   Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
10 Not available with Emergency options, PE or PER options.
11 DMG option not available with standalone or networked sensors/controls.
12 Battery pack rated for -20° to 40°C.
13 Comes with PBBW.
14 Warranty period is 3-years.
15 Not available with BBW.
16 Must order with fixture; not an accessory.
17 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table.

Optional Back Box (PBBW)

Height: 8.49″
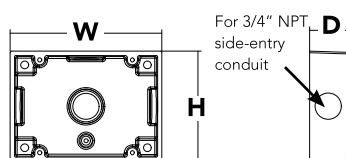*(21.56 cm)*

Width: 17.01″
(43.21 cm)

Depth: 1.70″
(4.32 cm)
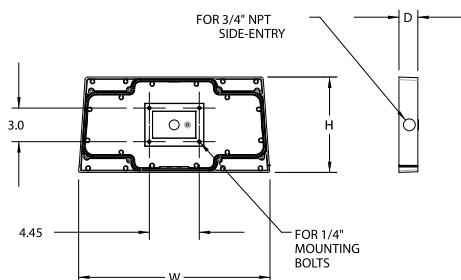
Optional Back Box (BBW)

Height: 4″
(10.2 cm)

Width: 5-1/2″
(14.0 cm)

Depth: 1-1/2″
*(3.8 cm)*

Emergency Battery Operation

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of NFPA 70/NEC 2008 - 700.16

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

10' x 10' Gridlines
8' and 12' Mounting Height
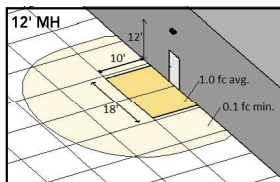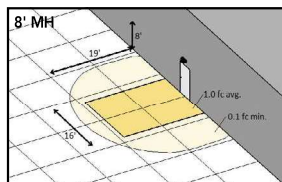
WST LED P1 27K VF MVOLT E7WH
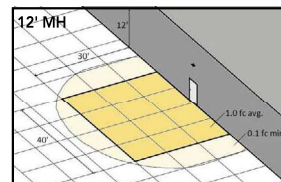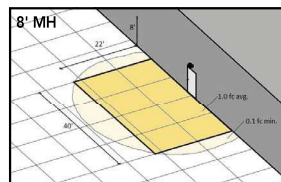
WST LED P2 40K VF MVOLT E20WH

Lumen Ambient Temperature (LAT) Multipliers

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

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

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
P2	25	0.21	0.13	0.11	0.1	---	---
	30	---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
P3	50	0.42	0.24	0.21	0.19	---	---
	56	---	---	---	---	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	---	---

Motion Sensor Default Settings

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

*for use with site wide Dusk to Dawn control

PER Table

Control	PER (3 wire)	PER5 (5 wire)			PER7 (7 wire)		
			Wire 4/Wire5			Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✔	⚠	Wired to dimming leads on driver		⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	🚫	✔	Wired to dimming leads on driver		⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion	🚫	⚠	Wired to dimming leads on driver		⚠	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof*	🚫	⚠	Wired to dimming leads on driver		✔	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof* with Motion	🚫	⚠	Wired to dimming leads on driver		✔	Wired to dimming leads on driver	Wires Capped inside fixture

✔ Recommended

🚫 Will not work

⚠ Alternate

*Futureproof means: Ability to change controls in the future.

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.

Performance Package	System Watts (MVOLT¹)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
		VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
		VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134

LITHONIA LIGHTING

COMMERCIAL OUTDOOR
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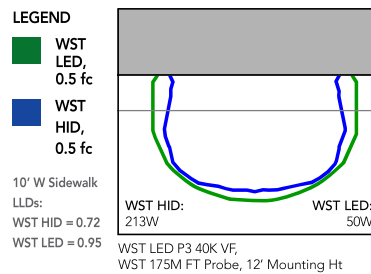
WST-LED
Rev. 01/19/23

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').
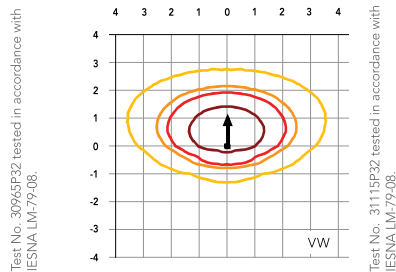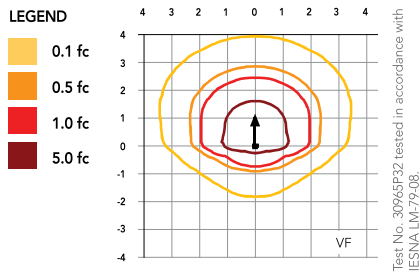
Distribution overlay comparison to 175W metal halide.

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc
- 5.0 fc

Test No. 3096SP32 tested in accordance with IESNA LM-79-08.

VF

Test No. 3111SP32 tested in accordance with IESNA LM-79-08.

VW

LEGEND

- WST LED, 0.5 fc
- WST HID, 0.5 fc

10' W Sidewalk LLDs:
WST HID = 0.72
WST LED = 0.95

WST HID: 213W   WST LED: 50W

WST LED P3 40K VF,
WST 175M FT Probe, 12' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE
The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

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. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

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

ELECTRICAL
Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

BUY AMERICAN ACT
Product with the BAA option 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/buy-american for additional information.

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.

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • www.lithonia.com
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WST-LED
Rev. 01/19/23

SPECIFICATIONS

Certifications/Qualifications
Class 2	Yes
Dark Sky Compliant	Yes
Title 24 Compliant	Yes
	www.kichler.com/warranty

Dimensions
Base Backplate	5.00" X 5.00"
Extension	6.50"
Weight	2.60 LBS
Height from center of Wall opening (Spec Sheet)	3.25"
Height	7.00"
Width	5.00"

Electrical
Input Voltage	Dual (120/140)V

Light Source
Delivered Lumens	350
Dimmable	Yes
Expected Life Span (Hours)	40000
Lamp Included	Integrated
Light Source	LED
Max or Nominal Watt	11.00
# of Bulbs/LED Modules	1

Mounting/Installation
Interior/Exterior	Exterior
Location Rating	Wet
Mounting Style	Wall Mount

Photometrics
Color Rendering Index	90
Color Temperature Range	3000
Kelvin Temperature	3000K

FIXTURE ATTRIBUTES

Housing
Primary Material	ALUMINUM
Shade Dimensions	4.50" D X 7.00"

Product/Ordering Information
SKU	11250BKT30
Finish	Textured Black
Style	Contemporary
UPC	783927453066

Finish Options

⬤ Textured Architectural Bronze

⬤ Textured Black

B

InvisiLED® OUTDOOR
Wet Rated LED Tape

WAC
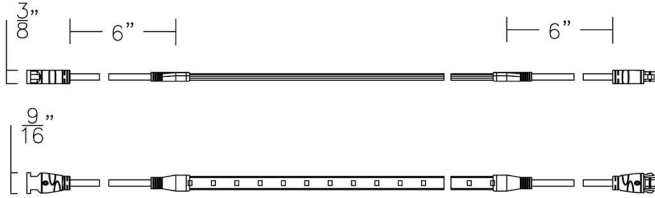
Fixture Type: _____ **D**

Catalog Number: _____

Project: _____

Location: _____

3/8" ⊢ 6" ⊣ ⊢ 6" ⊣

9/16"

PRODUCT DESCRIPTION

Designed for the outdoors, this durable and professional grade white tape light delivers superior color consistency and brightness throughout the strip. An IP65 Outdoor Wet Location rating and unique silicon tube protection guards against the elements while offering 3 CCT choices to illuminate hardscaping, landscaping and architectural features.

FEATURES

- May be cut every 4 inches
- Beam Spread: 115°
- Multiple roll lengths offered
- Equal brightness from end to end
- Protection against water spray, dust with silicone jacket (IP65)
- 100 ft max distance between the power supply and beginning of InvisiLED®

SPECIFICATIONS

Construction:	Flexible light strip in a silicone tube
Cutting Interval:	4"
Input:	24VDC
Lumens:	Up to 200 lm/ft
Max Run:	Refer to ordering table
Dimming:	ELV, TRIAC
CRI:	90
McAdams Steps:	3
Color Temp:	2700K / 3000K/ 4000K
Rated Life:	50,000 hours
Operating Temp:	-4°F to 104°F (-20°C to 40°C)
Standards:	UL & cUL listed, Wet Location listed, Title 24 Compliant

TAPE SELECTIONS

System		Max Run	Power	Length (in feet)						Color Temp		Finish	
T24-OD1	*100+lm/ft*	*80ft*	*1.2W/ft*	**01**	**05**	**10**	**20**	**40**	**80**	**27** *2700K*		**BK**	*Black*
T24-OD2	*200+lm/ft*	*40ft*	*2.4W/ft*	**01**	**05**	**10**	**20**	**40**	**N/A**	**30** *3000K*			
										40 *4000K*			

Example: **T24-OD1-20-27**

waclighting.com
Phone (800) 526.2588
Fax   (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91761

INVISILED® OUTDOOR
Accessories

	MODEL	Finish		
	T24-WE-IC-002-BK T24-WE-IC-006-BK T24-WE-IC-012-BK T24-WE-IC-036-BK T24-WE-IC-072-BK T24-WE-IC-044-BK T24-WE-IC-240-BK	Black	2 in 6 in 1 ft 3 ft 6 ft 12 ft 20 ft	**Tape to Tape Connector** Connects between tape sections *Extends power supply lead wire*
	T24-WE-BO12-BK T24-WE-BO72-BK	Black	1 ft 6 ft	**Invisiled Outdoor Lead Wire** *Connects to Indoor Power Supply*
	T24-WE-EX2-006-BK	Black	6 in	**Power Connector Kit** Include: Wire Jacket and Silicone Sealant *Feeds hard-wire power to InvisiLED Outdoor tape*
	T24-WE-Y-BK	Black		**Y Connector** *Splits power to the two tape sections*
	T24-WE-EC	White		**End Caps with Silicone Sealant** *(10 pieces/pack)*
	LED-TO24-C1	Black		**Surface Mounting Clips** *Include: mounting screws* *(10 pieces/pack)*
	LED-TO24-C2	Black		**Edge Mounting Clips** *Include: mounting screws* *(10 pieces/pack)*
	T24-WE-C3	Black		**Underside Mounting Clips** *Include: mounting screws* *(10 pieces/pack)*
	T24-WE-CH5	Clear	5 ft	**Surface Mount Clear Channel**
	T24-WE-SI-45	White		**Silicone Sealant** *Wet Location Tape Sealant (45 grams)*

Power Supply

	MODEL	Input	Output	Dimming	
	PS-24DC-U96R-WE	120-277VAC	24VDC 96W	ELV / TRIAC	*8 3/8" x 2 13/16" x 1 11/16"* *> 0.9 pf* *Overload and short circuit protection* *Includes 6ft lead wire*
	PS-24DC-A96P-WE	120V	24VDC 96W	N/A	*8 3/8" x 2 13/16" x 1 11/16"* *> 0.9 pf* *Overload and short circuit protection* *Includes 6ft lead wire* *120V input power cord ready*

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program.   JAN 2023

THE EDGE® Series
LED Area/Flood Luminaire

Rev. Date: V12 02/08/2023

Product Description

THE EDGE® Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment and high performance aluminum heat sinks. Various mounting choices: Adjustable Arm, Direct Arm, Direct Arm Long, or Side Arm (details on page 2). Includes a leaf/debris guard.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

DA Mount

Performance Summary

Patented NanoOptic® Product Technology

Assembled in the USA by Cree Lighting from US and imported parts

CRI: Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K); 90 CRI (5000K)

CCT: Turtle Friendly Amber, 3000K (+/- 300K), 4000K (+/- 300K), 5000K (+/- 500K), 5700K (+/- 500K) standard

Limited Warranty†: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish/5 years on PML sensors/1 year on accessories

† See http://creelighting.com/warranty for warranty terms

DA Mount dimensions

- 27.1" (688mm)
- 18.1" (460mm)
- 9.0" (229mm)
- 2.1" (53mm)
- 3.9" (99mm)

NEMA® 3-Pin Photocell Receptacle location (ordered as an option)

Convenient, Interlocking Mounting Method

LED Count (x10)	Dim. "A"	Weight
02	12.1" (306mm)	21 lbs. (10kg)
04	12.1" (306mm)	24 lbs. (11kg)
06	14.1" (357mm)	27 lbs. (12kg)
08	16.1" (408mm)	28 lbs. (13kg)
10	18.1" (459mm)	32 lbs. (15kg)
12	20.1" (510mm)	34 lbs. (15kg)
14	22.1" (560mm)	37 lbs. (17kg)
16	24.1" (611mm)	41 lbs. (19kg)

AA/DL/SA Mount - see page 22 for weight & dimensions

Accessories

Field-Installed

Bird Spikes
XA-BRDSPK
Hand-Held Remote
XA-SENSREM
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Backlight Control Shields
XA-20BLS-4
- Four-pack
- Unpainted stainless steel
Shorting Cap
XA-XSLSHRT
NEMA® 3-Pin Photocell
C-ACC-A-PCELL-NEMA3-LV
- On/off functionality only
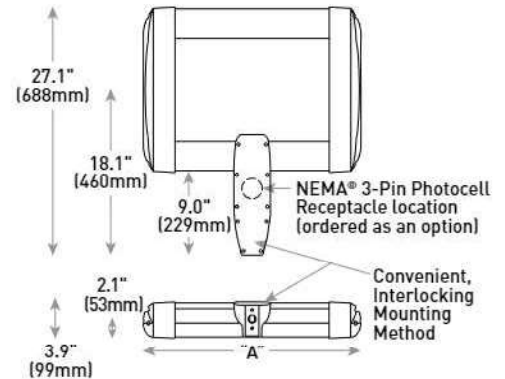- Available with UL voltage only

Ordering Information

Example: ARE-EDG-2M-AA-12-E-UL-SV-350

Product	Optic			Mounting*	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options		
ARE-EDG	2M Type II Medium	3MB Type III Medium w/BLS	4MP Type IV Medium w/Partial BLS	AA Adjustable Arm	02 04 06 08 10 12 14 16	E	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	350 350mA 525 525mA 700 700mA - Available with 20-60 LEDs	DIM **0-10V Dimming** - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current - Not available with PML options	PML2 **Programmable Multi-Level, 10-30' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt	
	2MB Type II Medium w/BLS	3MP Type III Medium w/Partial BLS	5M Type V Medium	DA Direct Arm						F **Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse	R **NEMA® 3-Pin Photocell Receptacle** - 3-pin receptacle per ANSI C136.10 - Not available with SA mount - Intended for downlight applications with maximum 45° tilt - Requires photocell or shorting cap by others - Refer to PML spec sheet for availability with PML options	
	2MP Type II Medium w/ Partial BLS	4M Type IV Medium	5S Type V Short	DL Direct Long Arm						HL **Hi/Low (Dual Circuit Input)** - Refer to HL spec sheet for details - Sensor not included	30K **3000K Color Temperature** - Minimum 80 CRI - Color temperature per luminaire	
	3M Type III Medium	4MB Type IV Medium w/BLS								P **Photocell** - Refer to PML spec sheet for availability with PML options - Available with UL voltage only	40K **4000K Color Temperature** - Minimum 70 CRI - Color temperature per luminaire	
										PML **Programmable Multi-Level, 20-40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt	50K **5000K Color Temperature** - Minimum 90 CRI - Color temperature per luminaire	
FLD-EDG	25 25° Flood	70 70° Flood	N6 NEMA® 6	AA Adjustable Arm							TRL **Amber Turtle Friendly LEDs** - Available only with 350mA - 600nm dominant wavelength - Additional shielding (by others) may be required for Florida Fish and Wildlife Conservation Commission compliance	
	40 40° Flood	SN Sign		SA Side Arm - Available with 20-60 LEDs								

* Reference EPA and pole configuration suitability data beginning on page 19

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE ⇕ LIGHTING

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks
- DA and DL mount utilizes convenient interlocking mounting method. Mounting is rugged die cast aluminum, mounts to 3-6" (76-152mm) square or round pole and secures to pole with 5/16-18 UNC bolts spaced on 2" (51mm) centers
- AA and SA mounts are rugged die cast aluminum and mount to 2" (51mm) IP, 2.375" (60mm) O.D. tenons
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight Charts on pages 1 and 22

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- DA and DL mounts designed with integral weathertight electrical box with terminal strips (12Ga–20Ga) for easy power hookup
- Integral 10kV/5kA surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA; 20 LED (525 & 700mA) and 40-80 LED: 0.15mA; 100-160 LED: 0.30mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA, DA and DL mounts
- ANSI C136.2 10kV/5kA surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- RoHS compliant. Consult factory for additional details
- Assembled in the USA by Cree Lighting from US and imported parts
- Meets Buy American requirements within ARRA
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*

LED Count (x10)	CCT	System Watts 120-480V	Total Current (A) 120V	208V	240V	277V	347V	480V
350mA								
02	30K/40K/50K/57K	25	0.21	0.13	0.11	0.10	0.08	0.07
	TRL	19	0.16	0.09	0.08	0.07	0.05	0.04
04	30K/40K/50K/57K	46	0.36	0.23	0.21	0.20	0.15	0.12
	TRL	35	0.29	0.17	0.15	0.13	0.10	0.07
06	30K/40K/50K/57K	66	0.52	0.31	0.28	0.26	0.20	0.15
	TRL	50	0.41	0.24	0.21	0.18	0.14	0.10
08	30K/40K/50K/57K	90	0.75	0.44	0.38	0.34	0.26	0.20
	TRL	68	0.57	0.33	0.28	0.25	0.20	0.14
10	30K/40K/50K/57K	110	0.92	0.53	0.47	0.41	0.32	0.24
	TRL	83	0.69	0.40	0.35	0.30	0.24	0.17
12	30K/40K/50K/57K	130	1.10	0.63	0.55	0.48	0.38	0.28
	TRL	99	0.82	0.48	0.41	0.36	0.28	0.21
14	30K/40K/50K/57K	158	1.32	0.77	0.68	0.62	0.47	0.35
	TRL	120	1.00	0.58	0.50	0.43	0.34	0.25
16	30K/40K/50K/57K	179	1.49	0.87	0.77	0.68	0.53	0.39
	TRL	136	1.13	0.65	0.57	0.49	0.39	0.28
525mA								
02	30K/40K/50K/57K	37	0.30	0.19	0.17	0.16	0.12	0.10
04	30K/40K/50K/57K	70	0.58	0.34	0.31	0.28	0.21	0.16
06	30K/40K/50K/57K	101	0.84	0.49	0.43	0.38	0.30	0.22
08	30K/40K/50K/57K	133	1.13	0.66	0.58	0.51	0.39	0.28
10	30K/40K/50K/57K	171	1.43	0.83	0.74	0.66	0.50	0.38
12	30K/40K/50K/57K	202	1.69	0.98	0.86	0.77	0.59	0.44
14	30K/40K/50K/57K	232	1.94	1.12	0.98	0.87	0.68	0.50
16	30K/40K/50K/57K	263	2.21	1.27	1.11	0.97	0.77	0.56
700mA								
02	30K/40K/50K/57K	50	0.41	0.25	0.22	0.20	0.15	0.12
04	30K/40K/50K/57K	93	0.78	0.46	0.40	0.36	0.27	0.20
06	30K/40K/50K/57K	134	1.14	0.65	0.57	0.50	0.39	0.29

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

THE EDGE® Series Ambient Adjusted Lumen Maintenance[1]

Ambient	CCT	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2]/ Estimated[3] LMF	100K hr Estimated[3] LMF
5°C (41°F)	30K/40K/50K/57K	1.04	1.03	1.03	1.03[2]	1.03
	TRL	1.06	1.06	1.06	1.06[3]	1.06
10°C (50°F)	30K/40K/50K/57K	1.03	1.02	1.02	1.02[2]	1.02
	TRL	1.04	1.04	1.04	1.04[3]	1.04
15°C (59°F)	30K/40K/50K/57K	1.02	1.01	1.01	1.01[2]	1.01
	TRL	1.03	1.03	1.03	1.03[3]	1.03
20°C (68°F)	30K/40K/50K/57K	1.01	0.99	0.99	0.99[2]	0.99
	TRL	1.01	1.01	1.01	1.01[3]	1.01
25°C (77°F)	30K/40K/50K/57K	1.00	0.98	0.98	0.98[2]	0.98
	TRL	1.00	1.00	1.00	1.00[3]	1.00

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
[3] Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

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