

# SD4DR / IC430

4" SD LED Downlight

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

## ELECTRICAL DATA

LED Light Engine	System Wattage * @ 120V	CCT	Nominal Delivered Lumens **	Efficacy
L0	8W	3500K	750 lm	94 lm/W
L1	10W	3500K	1000 lm	103 lm/W
L2	14W	3500K	1500 lm	110 lm/W
L3	19W	3500K	2000 lm	108 lm/W
L4	23W	3500K	2500 lm	111 lm/W
L5	28W	3500K	3000 lm	110 lm/W
L6	33W	3500K	3500 lm	109 lm/W
L7	38W	3500K	4000 lm	108 lm/W

\* System Wattage includes driver and LED Module consumption. | \*\* Delivered lumen output will vary depending on CCT selection.

## LED MODULE / OPTICS

- 80/90 CRI at 2700K, 3000K, 3500K, 4000K with 2 SDCM
- 70% lumen maintenance at 50,000 hours
- 30° Narrow Flood, 50° Flood or 70° Wide Flood

## ELECTRICAL SYSTEM

- Dedicated voltage options of 120V, 277V or 347V must be specified in catalog code.
- Phase dimming available in 120V only
- 347V available with Osram 0-10V 1% Dimming only

## REFLECTOR

Specification grade reflector with 1.2mm thickness. Architectural, discrete polished self flange standard. Optional painted white flange is available. Meets RP-1 requirements with controlled light distribution at a 50° cut off.

## DIMMING

- 0-10V Dimming 1%
- Phase Dimming 120V only, Forward 1% / Reverse 5%
- EldoLED 0-10V 0.1% or 1%
- Lutron® LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
- Lutron® LTEA2W Hi-Lume 1% 2-Wire LED driver (120V forward phase only) DMX512 RDM 0.1%

## FRAME CONSTRUCTION

Heavy duty galvanized steel frame with a large access junction box. ETL listed for through wiring. LED light engine and driver are accessible from above or below ceiling.

## INSTALLATION

The luminaire is type Non-IC. Insulation must be kept at a minimum of 3" away from fixture. Universal mounting brackets included. Compatible with C-channel, flat bar, wood joist bar hanger and EMT. Bar hangers must be ordered separately. C-channel is recommended for T-bar ceilings. Maximum ceiling thickness is 1 1/4". Max. ambient temperature: 95°F (35°C).

## EMERGENCY BACKUP

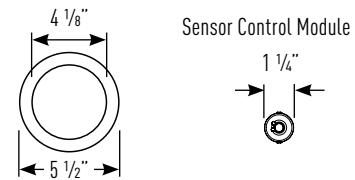
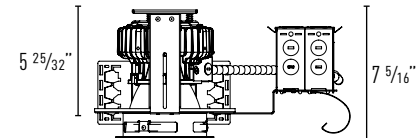
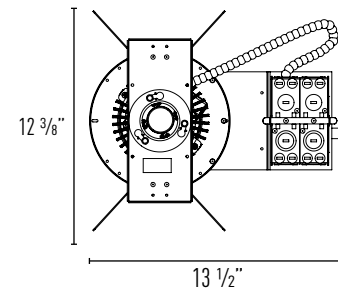
External battery operates LED load of up to 7W at a minimum of 800 lumens for 90 minutes (EM7), or 20W at a minimum of 2300 lumens for 90 minutes (EM20). Available with remote or integral test switch, must specify.

## intellect™

- Integrated control system provides occupancy and light level detection, and controls the load directly by the power control module Integrated intelligent fixture controls
- Visit Leviton [intellect™](#) for more info

## LISTING/WARRANTY

- ETL listed to US and Canadian standards for damp locations.
- 5-Year Intense LED Limited Warranty
- ENERGY STAR® Qualified<sup>10</sup>



Ceiling Cut Out: 4 3/4"  
Maximum Ceiling Thickness: 1 1/4"

Housing Part Number (Example: SD4DRL130-D101-NF)

Housing	LED Module	CCT / CRI	Dimming	Voltage	Optic	Options
SD4DR	L0 <sup>1</sup> (8W)	27 (2700K / 80 CRI)	-D101 (Osram 0-10V 1%)	blank (120V)	-NF (30°)	EM7 (7W Emergency Backup w/ Remote Test Switch <a href="#">IOTA part #ILB-CP07-A</a> )
	L1 (10W)	279 (2700K / 90 CRI)	-IE <sup>3</sup> (Intellect Wireless 1%)	27 (277V)	-FL (50°)	EM7T (7W Emergency Unit w/ Integral Test Switch <a href="#">IOTA part #ILB-CP07-R</a> )
	L2 (14W)	30 (3000K / 80 CRI)	-DIM <sup>4,5</sup> (Phase Dimming)	34 <sup>8</sup> (347V)	-WF (70°)	EM20 <sup>9</sup> (20W Emergency Backup w/ Remote Test Switch <a href="#">IOTA ILB-CP20-HE-S</a> )
	L3 (19W)	309 (3000K / 90 CRI)	-ED10V1 (eldoLED 0-10V 1%)			
	L4 (23W)	35 (3500K / 80 CRI)	-ED10V01 (eldoLED 0-10V 0.1%)			
	L5 (28W)	359 (3500K / 90 CRI)	-LUT <sup>6</sup> (Lutron® LDE1 EcoSystem 1%)			
	L6 (33W)	40 (4000K / 80 CRI)	-LUT <sup>2,5,4</sup> (Lutron® LTEA2W 2-Wire 1%)			
	L7 <sup>2</sup> (38W)	409 (4000K / 90 CRI)	-DMXR <sup>7</sup> (DMX512 RDM 0.1%)			

Reflector Part Number (Example: IC430HZ-SF)

Reflector	Reflector Finish	Trim	Option
IC430	C (Clear)	-SF (Self-Flanged)	EM7T (Integral Test Switch)
	HZ (Haze)	-SFW (Self-Flanged White)	
	W (White)		
	B (Black)		

## Accessories

- I100 (C-Channel Bar Hangers)
- I200 (Flat Bar Hangers)
- I400 (Wood Joist Bar Hangers)

## Notes:

- L0 only available with -D101
- 347V Not available with L7 option
- Intellect not available with eldoLED, Lutron, Dali or DMX Dimming (Integrated intellect control system includes sensor and power pack. Keypad Room Controller must be specified separately)
- Not available in L1, L2 or L7
- Not available in 277V
- Lutron not available in L1 & L7
- DMX512 RDM not available in L1 & L2
- 347V only available with Osram 0-10V 1% Dimming
- 20W emergency not available in L1, L2 & L3
- ENERGY STAR® Qualified (0-10V & ELV only. Excludes CCT/CRI options 279, 309 & 359)

SS-DOWNLIGHTING LUM-882.22.P-1

INTENSE LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 630-9877 | fax 714 630-9883

For Intense Lighting's limited product warranty, go to [www.intenselighting.com](#). For a printed copy of the warranty, you may call 800 961-5321.

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# SD4DR / IC430

4" SD LED Downlight

<b>JOB NAME</b>		<b>CATALOG NUMBER</b>	
<b>NOTES</b>		<b>TYPE</b>	

Electrical Table					
Lumen Package	Voltage	Wattage	VA	Input Current	Power Factor
L0	120	7.43	7.99	0.07	0.930
	277	8.41	11.87	0.04	0.709
L1	120	9.75	10.37	0.09	0.94
	277	10.82	14.18	0.05	0.76
L2	120	13.71	14.35	0.12	0.96
	277	14.85	18.06	0.07	0.82
L3	120	18.27	18.54	0.15	0.99
	277	19.77	22.92	0.08	0.86
L4	120	22.74	23.04	0.19	0.99
	277	24.09	27.31	0.10	0.88
L5	120	27.18	27.44	0.23	0.99
	277	28.93	32.00	0.12	0.90
L6	120	32.76	32.84	0.27	1.00
	277	34.09	36.72	0.13	0.93
L7	120	37.71	37.79	0.31	1.00
	277	38.86	41.77	0.15	0.93

# SD4DR / IC430

4" SD LED Downlight

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

## SD4DRL135 IC430C

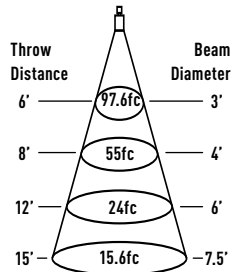
### CCT MULTIPLIERS:

	80 CRI	90 CRI
2700K	(x 0.92)	(x 0.79)
3000K	(x 0.98)	(x 0.79)
3500K	(x 1.00)	(x 0.82)
4000K	(x 1.01)	(x 0.84)

### FINISH MULTIPLIERS

	30°	50°	60°
Clear	(x 1.00)	(x 1.00)	(x 1.00)
Haze	(x 0.96)	(x 0.96)	(x 0.88)
White	(x 0.96)	(x 0.97)	(x 0.90)

### -NF (30° Narrow Flood)



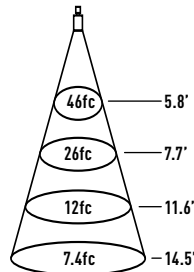
Footcandles at Nadir

Watts: 10      LPW: 100.8  
Lumens: 1008      CCT: 3500K

### Luminance

Degree	CBCP
0°	3513
5°	3123
15°	1580
25°	485
35°	88
45°	5

### -FL (50° Flood)



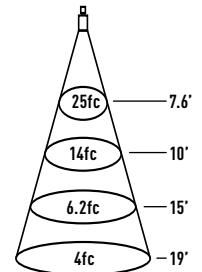
Footcandles at Nadir

Watts: 10      LPW: 107.7  
Lumens: 1077      CCT: 3500K

### Luminance

Degree	CBCP
0°	1665
5°	1653
15°	1546
25°	915
35°	105
45°	5

### -WF (70° Wide Flood)



Footcandles at Nadir

Watts: 10      LPW: 99.4  
Lumens: 994      CCT: 3500K

### Luminance

Degree	CBCP
0°	899
5°	984
15°	1084
25°	789
35°	320
45°	36

## SD4DRL235 IC430C

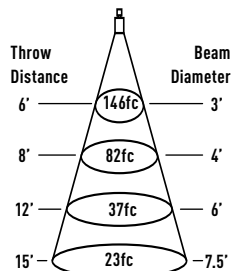
### CCT MULTIPLIERS:

	80 CRI	90 CRI
2700K	(x 0.92)	(x 0.79)
3000K	(x 0.98)	(x 0.79)
3500K	(x 1.00)	(x 0.82)
4000K	(x 1.01)	(x 0.84)

### FINISH MULTIPLIERS

	30°	50°	70°
Clear	(x 1.00)	(x 1.00)	(x 1.00)
Haze	(x 0.96)	(x 0.96)	(x 0.88)
White	(x 0.96)	(x 0.97)	(x 0.90)

### -NF (30° Narrow Flood)



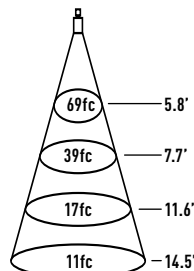
Footcandles at Nadir

Watts: 14      LPW: 107.9  
Lumens: 1511      CCT: 3500K

### Luminance

Degree	CBCP
0°	5269
5°	4684
15°	2370
25°	727
35°	132
45°	7

### -FL (50° Flood)



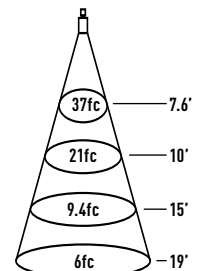
Footcandles at Nadir

Watts: 14      LPW: 115.4  
Lumens: 1616      CCT: 3500K

### Luminance

Degree	CBCP
0°	2498
5°	2480
15°	2320
25°	1372
35°	158
45°	8

### -WF (70° Wide Flood)



Footcandles at Nadir

Watts: 14      LPW: 106.5  
Lumens: 1491      CCT: 3500K

### Luminance

Degree	CBCP
0°	1348
5°	1477
15°	1625
25°	1183
35°	480
45°	54

# SD4DR / IC430

4" SD LED Downlight

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

## SD4DRL335 IC430C

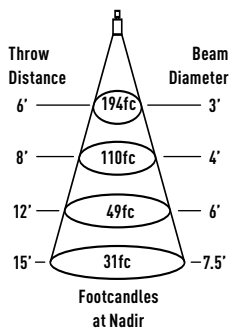
### CCT MULTIPLIERS:

	80 CRI	90 CRI
2700K	(x 0.92)	(x 0.79)
3000K	(x 0.98)	(x 0.79)
3500K	(x 1.00)	(x 0.82)
4000K	(x 1.01)	(x 0.84)

### FINISH MULTIPLIERS

	30°	50°	70°
Clear	(x 1.00)	(x 1.00)	(x 1.00)
Haze	(x 0.96)	(x 0.96)	(x 0.88)
White	(x 0.96)	(x 0.97)	(x 0.90)

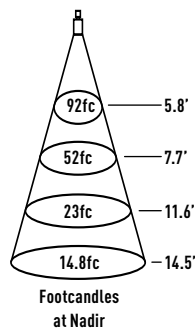
### -NF (30° Narrow Flood)



Watts: 19    LPW: 105.89  
Lumens: 2012    CCT: 3500K

Luminance	
Degree	CBCP
0°	7014
5°	6234
15°	3155
25°	968
35°	176
45°	9

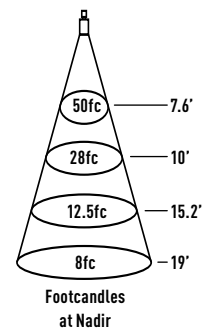
### -FL (50° Flood)



Watts: 19    LPW: 113.2  
Lumens: 2151    CCT: 3500K

Luminance	
Degree	CBCP
0°	3324
5°	3300
15°	3087
25°	1826
35°	210
45°	11

### -WF (70° Wide Flood)



Watts: 19    LPW: 104.5  
Lumens: 1985    CCT: 3500K

Luminance	
Degree	CBCP
0°	1794
5°	1965
15°	2164
25°	1575
35°	639
45°	72

## SD4DRL435 IC430C

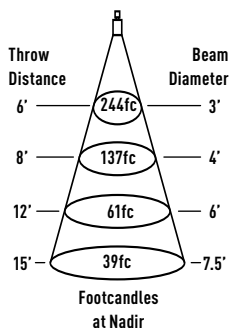
### CCT MULTIPLIERS:

	80 CRI	90 CRI
2700K	(x 0.92)	(x 0.79)
3000K	(x 0.98)	(x 0.79)
3500K	(x 1.00)	(x 0.82)
4000K	(x 1.01)	(x 0.84)

### FINISH MULTIPLIERS

	30°	50°	70°
Clear	(x 1.00)	(x 1.00)	(x 1.00)
Haze	(x 0.96)	(x 0.96)	(x 0.88)
White	(x 0.96)	(x 0.97)	(x 0.90)

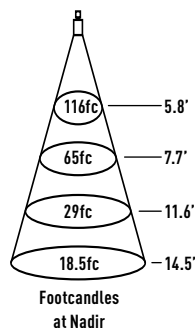
### -NF (30° Narrow Flood)



Watts: 23    LPW: 109.3  
Lumens: 2515    CCT: 3500K

Luminance	
Degree	CBCP
0°	8770
5°	7795
15°	3945
25°	1210
35°	220
45°	12

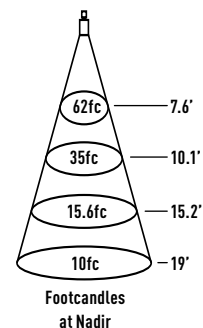
### -FL (50° Flood)



Watts: 23    LPW: 116.9  
Lumens: 2690    CCT: 3500K

Luminance	
Degree	CBCP
0°	4157
5°	4127
15°	3861
25°	2283
35°	263
45°	13

### -WF (70° Wide Flood)



Watts: 23    LPW: 107.9  
Lumens: 2482    CCT: 3500K

Luminance	
Degree	CBCP
0°	2243
5°	2458
15°	2705
25°	1969
35°	799
45°	90

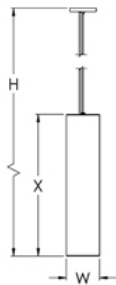


# S2B40 Series

Cyla 3



## DIMENSIONS



W	H	X	BASE MODEL NO.
3"	96"	12"	S2B40-L12
3"	96"	24"	S2B41-L24
3"	96"	36"	S2B42-L36
3"	96"	48"	S2B43-L48
3"	120"	60"	S2B44-L60
3"	120"	72"	S2B45-L72

## SPECIFICATIONS

**Driver:** 0-10V dimming to 1%, 120/277 [Excluding Downlight]

**Mounting:** Mounts to all Standard Electrical Junction Boxes (by others) with Hardware Provided

## FEATURES

- Opal Matte Acrylic Cylinder
- Clear Silver Braided Cord with (1) Adjustable Aircraft Cable
- LED 0-10V Dimming Driver

## ORDER AS A COMPLETE UNIT:

Model No.	+ Lamp Code	+ Finish	+ OA	+ Option Code
S2B40-L12	+ 27K	+ PT	TT	+ OA + Option
S2B41-L24	30K	BA	PWT	
S2B42-L36	35K	NT	BST	
S2B43-L48	40K	GT	CC	
S2B44-L60		ZT		
S2B45-L72		CT		

## FINISHES

BA Brushed Aluminum	TT Toffee Touch
NT Nickel Touch	PWT Pewter Touch
GT Gold Touch	BST Blackened Steel Touch
ZT Bronze Touch	CC Custom Painted Finish
CT Copper Touch	PT Powder Coated Finishes*

\*(Specify Color Code from the list of Powder Coating Finishes)

## OPTIONS

- BAC** Buy America; Buy American Act; and Build America, Buy America Act Compliant.
- EML** Remote 10W Emergency LED Battery Backup
- 1S** Single Stem

## LIGHT OUTPUT

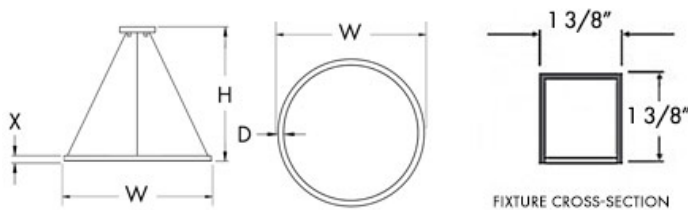
**LXX** = ~ 80 LPW Delivered Lumens (Example: L24= 24 x 80 = 1,920 Lumens)

# S2790-D Series

Mini-Minimo Down



## DIMENSIONS



W	X	D	H	BASE MODEL NO.
32"	1 3/8"	1 3/8"	96"	<b>S2790-D-L46†</b>
36"	1 3/8"	1 3/8"	96"	<b>S2791-D-L62†</b>
48"	1 3/8"	1 3/8"	96"	<b>S2792-D-L78†</b>
60"	1 3/8"	1 3/8"	96"	<b>S2793-D-L90†</b>
72"	1 3/8"	1 3/8"	96"	<b>S2794-D-L132†</b>
96"	1 3/8"	1 3/8"	96"	<b>S2795-D-L192*</b>
120"	1 3/8"	1 3/8"	96"	<b>S2796-D-L240*</b>

†Central Canopy (Standard) and MCR Mounting Option Available  
 \*MCR Mounting Only – No Central Canopy

## SPECIFICATIONS

**Driver:** Constant Voltage, 0-10V Dimming, 120/277V  
**Mounting:** Mounts to all Standard Electrical Junction Boxes (by others) With Hardware Provided.

## FEATURES

- Flexible Opal Matte Bottom Lens
- Solid Aluminum Material
- Central Canopy 8" Dia. (S2790-S2794 Only)
- Clear Silver Braided Cord with (4) Adjustable Aircraft Cables
- LED 0-10V Dimming Driver (in Canopy)

## ORDER AS A COMPLETE UNIT:

Model No. + Lamp Code + CCT + Finish + OA + Option Code

S2790-D-L46	+	27K	+	PT	CT	+	OA	+	Option
S2791-D-L62		30K		BA	TT				
S2792-D-L78		35K		NT	PWT				
S2793-D-L90		40K		GT	BST				
S2794-D-L132				ZT	CC				
S2795-D-L192									
S2796-D-L240									

## FINISHES

<b>BA</b> Brushed Aluminum	<b>TT</b> Toffee Touch
<b>NT</b> Nickel Touch	<b>PWT</b> Pewter Touch
<b>GT</b> Gold Touch	<b>BST</b> Blackened Steel Touch
<b>CT</b> Copper Touch	<b>CC</b> Custom Painted Finish
<b>ZT</b> Bronze Touch	<b>PT</b> Powder Coated Finishes*

\*(Specify Color Code from the list of Powder Coating Finishes)

## OPTIONS

**EML** Remote 10W Emergency LED Battery Backup (Requires Additional Power Cable)  
**MCR** Multi-Canopy – Remote Driver Option [(S2790-S2794) 4 Vertical Cables and Canopies – (S2795-S2796) 8 Vertical Cables and Canopies]

## LIGHT OUTPUT

**LXX** = ~ 49.4 LPW Delivered Lumens (Example: L46= 46W x 49.4LPW = 2,272 Lumens)

Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	



## ■ specifications: internal

The **TEMPESTA™ LED** is an emergency light suitable for surface or recessed mount and t-bar. It is available with a choice of operations: HT (AC only), SE (emergency only) and SA (AC and emergency). Both the **TEMPESTA™ LED SE** and **SA** versions feature a nickel metal hydride battery that provides a minimum 120 minutes emergency duration. Autotest diagnostics is optional on **TEMPESTA™ LED SE** and **SA**. **TEMPESTA™ LED** is configured with 120-347V input.

LED boards are positioned for wall mounting when shipped. Boards can be adjusted on-site for ceiling mount installation. **TEMPESTA™ LED** is suitable for surface, recessed and t-bar mounting and for wet location installations. Fuse protection is standard.

## ■ specifications: external

The **TEMPESTA™ LED** series housing is constructed with flame and corrosion resistant polycarbonate. Four vandal resistant clips ensure the integrity of the housing. The **TEMPESTA™ LED** comes finished in grey RAL7035 color. The external test switch and multi-colored LED allows maintenance personnel to quickly determine the operational status of the unit. The **TEMPESTA™ LED** diffuser is UV stabilized and provides superior light distribution.

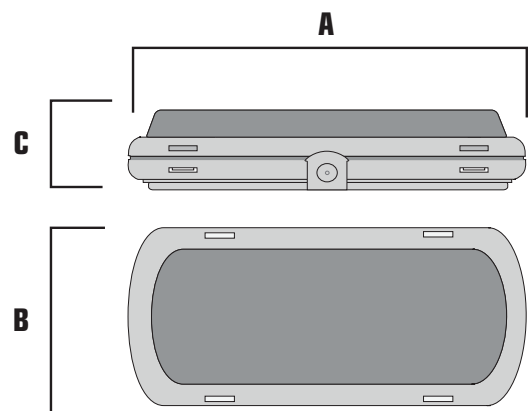
## ■ ordering logic

Series	Operation	Input Voltage	Options
TA-LED	HT (AC only - normally On)	UNV (120-347V)	AT (autotest)
	SE (emergency - AC fail only)		RK (recessed kit for drywall/concrete-wall/ceiling)
	SA (self-powered - always on / EM backup)		TB (t-bar mount) BLK (black housing)

EXAMPLE: TA-LED-SE-UNV-AT

DESCRIPTION: Tempesta™ LED emergency only, 120-347V, surface mount, autotest diagnostics.

## ■ dimensions (in,mm)



MODEL	A	B	C
S (surface)	17.0" (432mm)	6.7" (170mm)	2.9" (73.6mm)
R (recessed)	20.5" (520mm)	9.2" (234mm)	4.0 (102mm)
TB (t-bar)	23.8" (603mm)	8.5" (216mm)	3.2" (81 mm)

## ■ specifications: battery

The **TEMPESTA™ LED** SE and SA versions comes standard with an environmentally friendly, nickel metal hydride (Ni-Mh) battery that provides a minimum of 120 minutes emergency duration. The primary feature of Ni-Mh batteries is their long life. Ni-Mh batteries are capable of 500 to 1000 charge and discharge cycles and the expected life of the battery is higher than the minimum required by the current technical standards (EN60598-2-22). Ni-Mh batteries are not subject to the “memory effect,” a typical drawback of Ni-Cd batteries, that could result in a reduction in the nominal operation. A further feature of the Ni-Mh batteries is their very high efficiency, more than double that of lead and Ni-Cd batteries.

## ■ temperature

The **TEMPESTA™ LED** HT operating temperature is -20°C up to 40°C (-4°F to 104°F). SA/SE operating temperature is 10°C up to 40°C max (50°F to 104°F).

## ■ high-output design

**TEMPESTA™ LED** uses high-output Samsung LEDs for energy efficiency and long life coupled with a 2-channel design allowing for redundant LED operation. The redundant LED operation ensures the unit will continue to operate at reduced light output in the event one of the LED boards fails. The **TEMPESTA™ LED** is rated for 100,000 hours at L70.

The **TEMPESTA™ LED** incorporates an efficient, high output lens and reflector. The diffusion lens has been designed to effectively transmit the greatest amount of lumens with the least transmittal loss. The overall design of the **TEMPESTA™ LED** results in great performance and increased fixture to fixture spacing. This in turn reduces installation, operational and maintenance costs.

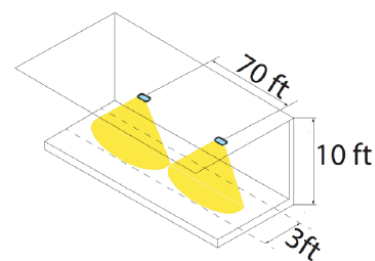
## ■ electrical rating

Operation	Charging Power (W)	AC Current (A)		Standby Power (W)	AC Current (A)	
		120V	277V		120V	277V
HT	17W	0.26	0.11	N/A	N/A	N/A
SA	19W	0.29	0.12	15W	0.23	0.10
SE	6W	0.09	0.04	2.3W	0.03	0.02

## ■ performance: ceiling mounting

- 1300 lumens in emergency mode
- CCT: 4000K
- Mounting Height: 10 ft.
- Path of Egress: 3 ft.
- Spacing: 70 ft. on Center
- Reflectances: 80/50/20
- Footcandles: Average 1.0FC

Performance data is an estimate and will vary based on real life applications. Average 1.0FC, no point less than 0.1FC. Layout assumes open space with no obstructions.



## ■ operation

The **TEMPESTA™ LED** is available with a choice of operations: HT (AC only), SE (emergency only) and SA (AC and emergency). The **TEMPESTA™ LED** SE (emergency - AC fail only) and SA (always on) comes standard with Ni-MH batteries. Under the SE operation, the unit is normally-off and will illuminate under an AC failure only. The HT version has achieved a truly universal AC input with a voltage design of 120-347V. Under AC only operation, the unit is normally-on and does not illuminate under an AC failure. SA version is normally-on under normal utility power and the charging circuit maintains the battery at full capacity. The unit may be switched on/ off by the built-in 2-wire wall switch control. When AC power fails the unit will automatically provide emergency light regardless of the position of the switch.

## ■ sanitation listed (SL)

The **TEMPESTA™ LED** is sanitation approved. The Intertek verified **splash zone** listing is certified to the NSF Standard 2, meeting the rigorous sanitation, electrical safety and performance standards of food service environments.

## ■ autotest

The Beghelli Autotest automatically performs one 5 minute discharge test monthly and every 6 months it performs two full discharge tests, 24 hours apart. This tests both full battery capacity and recharge capability. The information is communicated simply and intuitively to maintenance personnel via a single multicolored LED.

- Steady Green: Normal operation
- Flashing Green: Testing under way
- Flashing Red/Green: High Charging
- Steady Red: Battery Disconnected
- Flashing Red: Battery Test Failure
- Red Double Blink: Battery Charging Failure
- Red Three Blink: LED Failure

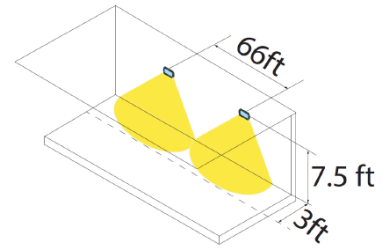
## ■ warranty

The **TEMPESTA™ LED** comes with a 3-year factory warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.

## ■ performance: wall mounting

- 1250 lumens in emergency mode
- CCT: 4000K
- Mounting Height: 7.5 ft.
- Path of Egress: 3 ft.
- Spacing: 66 ft. on Center
- Reflectances: 80/50/20
- Footcandles: Average 1.0FC

Performance data is an estimate and will vary based on real life applications. Average 1.0FC, no point less than 0.1FC. Layout assumes open space with no obstructions.



# OL2 SURFACE/RECESSED EDGE-LIT EXIT SIGN

INDOOR

TITLE  
20



Indoor Architectural Exits

Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	



## ■ specifications: internal

AC only and Self-Powered models come standard configured with high output, high efficiency LED's. 120/277V input. Nickel-cadmium batteries provide a minimum 90 minutes of emergency duration. Optional 120 minute duration battery is available. Solid state charger & transfer. Fuse protection is standard.

## ■ specifications: external

The **OL2** is constructed from durable 20 gauge steel. The **OL2** surface mount housing, recessed backbox and trim plate are all constructed from durable 20 gauge steel. The high clarity acrylic face plate is available in both single face or double face versions, with a clear, white, mirrored background (please specify). Field adjustable chevrons are standard. White, baked powder coat finish is standard on all versions. Available in custom colors (please specify). External LED monitor light and test switch are standard on self-powered versions.

## ■ ordering logic

Series	Model	LED	Face No.	Panel Color	Mounting	Options
OL2	HT (AC only)	LR (red)	1 (single)	C <sup>1</sup> (clear)	CR (ceiling recess)	AT (autotest - for SA model only)
	SA (self-powered)	LG (green)	2 (double)	W (white)	WR (wall recess)	BA (brushed aluminum)
				M (mirror)	CS (ceiling surface)	CC (custom color)
					WS (wall surface)	FAI <sup>2</sup> (fire alarm interface)
					ES (end surface)	IF (inverted face)
						PK <sup>3</sup> (pendant kit- specify length)
						SW (special wording- specify)
						2CK <sup>4</sup> (dual-circuit)
						120SA (120 minute emergency)

NOTE 1: "C (clear)" panel color is only available in single face.

NOTE 2: Specify type- open/closed dry contact.

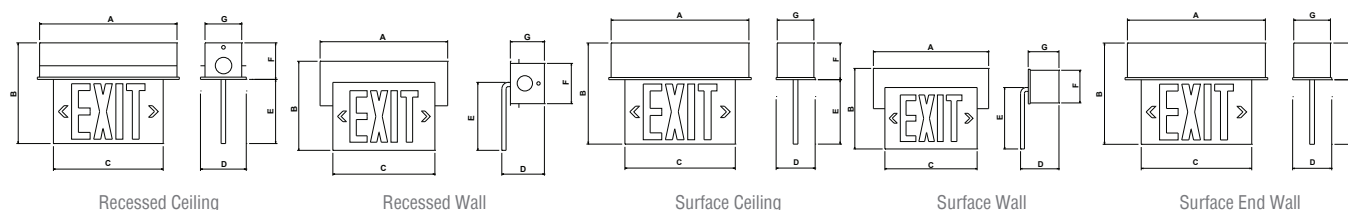
NOTE 3: Minimum 6" in length.

NOTE 4: For AC only.

EXAMPLE: OL2-SA-LR1-CCR

DESCRIPTION: self-powered, red LED, single face, clear panel, ceiling recess

## ■ dimensions (in,mm.)



Model	A	B	C	D	E	F	G
Recessed Ceiling	14 1/4" (362mm)	11 1/4" (286mm)	12" (305mm)	5" (127mm)	7" (178mm)	4 1/4" (108mm)	4" (102mm)
Recessed Wall	14 1/4" (362mm)	10 1/2" (267mm)	12" (305mm)	5 1/4" (133mm)	8" (203mm)	4" (102mm)	4 1/4" (108mm)
Surface Ceiling	14 1/4" (362mm)	11 1/4" (286mm)	12" (305mm)	5" (127mm)	7" (178mm)	4 1/4" (108mm)	4" (102mm)
Surface Wall	14 1/4" (362mm)	10 1/2" (267mm)	12" (305mm)	5 1/4" (133mm)	8" (203mm)	4" (102mm)	4 1/4" (108mm)
Surface End Wall	14 1/4" (362mm)	11 1/4" (286mm)	12" (305mm)	5" (127mm)	7" (178mm)	4 1/4" (108mm)	4" (102mm)

## ■ specifications: electrical

**BATTERY:** The **OL2-SA** is designed with a maintenance free, Nickel-Cadmium battery providing a minimum emergency duration of 90 minutes. An operational 120 minute Ni-Cad battery is available. Recharge time of the battery is forty-eight (48) hours. The operating temperature is from 50°F up to 104°F (10°C up to 40°C).

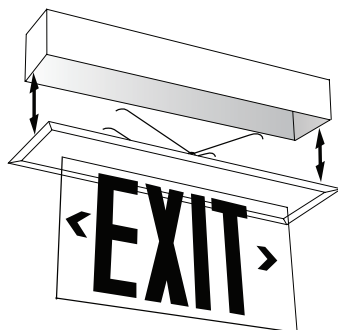
**CIRCUIT:** The **OL2** is configured with high output, high efficiency LEDs. Standard with 120/277V input. All LED versions consume 2W or less nominal power.

## ■ specifications: mechanical

Universal mounting pattern and key hole slots are stamped into the housing providing various mounting options. Ceiling recessed versions are supplied standard with removable steel T-Bar mounting brackets. Field installable chevrons are standard. Recessed version trim plates are held securely in place with two (2) torsion spring clips that allow the face plate to accommodate uneven or angled ceilings and walls. This design leaves no visible screws, nuts or fasteners in the trim plate that would detract from the clean, traditional design. **OL2** estimated weight 7.6 lbs.

## ■ edge-lit design

The **OL2** edge-lit exit signs feature a clean and traditional look. The indirect LED illumination evenly lights the acrylic face with crisp, even light. The ultra thin face plate virtually disappears once installed, yet the EXIT lettering boldly distinguishes the path of egress. The wide variety of finishes and mounting configurations available will ensure that the **OL2** can be easily matched to your to your project requirements.



## ■ self-powered versions

The **OL2-SA** is designed to operate on battery power in the event of a regular / mains power failure. Both the battery and charger are completely contained within the standard enclosure. There are no external components and no alterations made to the external dimensions of the standard sign. The **OL2-SA** utilizes a solid state transformer that eliminates the possibility of relay failure due to particle build up on the relay. Status is easily determined via an LED that indicates AC-ON. A push button test switch allows maintenance personnel to quickly confirm the operational status of the exit.

## ■ autotest

The **OL2** has the option for the Beghelli Autotest diagnostic system. Autotest features continuous monitoring of the units main components (battery, charger, transformer, lamps & LED's) and provides instant visual verification of the status.

## ■ warranty

The **OL2** comes with a 5-year factory warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.



Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	



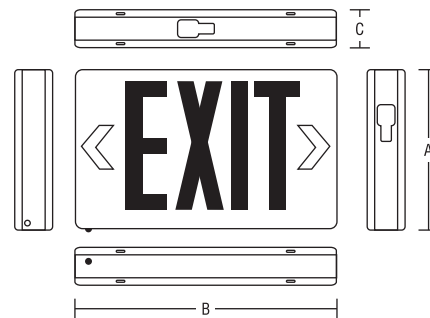
### ■ specifications: internal

The VA4 comes standard configured with high output LEDs, 120/277V input, available in red or green. AC only and Self powered versions are available. Nickel-cadmium batteries provide a minimum 90 minutes of emergency duration. Electronic cut-off circuit prevents over discharge.

### ■ specifications: external

The VA4 is constructed from durable corrosion and flame resistant thermoplastic. The VA4 comes standard with a mounting canopy, two (2) stencils, one (1) backplate, removable chevrons and all mounting hardware. The VA4 comes standard finished in white; optional black finish is available. A damp location rating is standard on all VA4 products. An external LED status indicator and test switch is standard on all self-powered models.

### ■ dimensions(in,mm.)



Series	A	B	C
VA4	7.5" 191mm	12" 305mm	1.5" 38mm

### ■ ordering logic

Series	LED	Model	Options
VA4	R (red)	HT (AC only)	AT (autotest - for SA model only)
	G (green)	SA (self-powered)	B (black finish)
			SG <sup>1</sup> (shield guard)
			2CK (Dual Circuit in AC only )
			PK18 (18" single pendant kit)

NOTE 1: Shield guard must be ordered as a separate line item #276100035.

NOTE 2: 3/8" IP with white finish. For other lengths, contact factory.

EXAMPLE: VA4-R-HT-B

DESCRIPTION: Red LED, AC only, black housing



## ■ specifications: electrical

**BATTERY:** The VA4 is designed with a maintenance free, sealed Nickel-Cadmium battery providing a minimum emergency duration of 90 minutes. Recharge time of the battery is twenty-four (24) hours. The maximum battery working temperature is 45°C. The minimum working temperature is 10°C.

**CIRCUIT:** The VA4 has a 120/277V solid state transformer. Low voltage disconnect and brownout protection are standard. Red or green LEDs.

- Red LED - 3.2W
- Green LED - 3.8W

## ■ specifications: mechanical

The low profile design of the VA4 exit provides a clean, attractive and affordable solution. The durable thermoplastic housing is corrosion and flame resistant. The VA4 stencils include removable chevrons that allow for easy “in the field” installation decisions. The modern and efficient design of the VA4 allows for wall, ceiling or end mounting. Canopy and all installation hardware are included.

## ■ specifications: shield guard

High-impact vandal-resistant polycarbonate shield guard optional. Mounting hardware provided for easy installation in the field.



## ■ specifications: special voltage & SALIDA face plate

Special voltage and SALIDA face plate options available. Check with your Beghelli representative for more information.



## ■ self-powered

The VA4-SA self-powered is designed to operate on battery power in the event of a regular / mains power failure. Both the battery and charger are completely contained within the standard enclosure. There are no external components and no alterations made to the external dimensions of the standard sign. The VA4-SA self-powered utilizes a solid state transformer technology that eliminates the possibility of relay failure due to particle build up on the relay. Status is easily determined via an LED that indicates AC-ON. A push button test switch allows maintenance personnel to quickly confirm the operational status of the exit on AC fail.

## ■ warranty

The VA4 comes with a 5-year factory warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.

# S2450 Series

Tubra 6



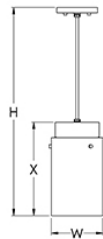
S2450



S2455



## DIMENSIONS



W	H	X	BASE MODEL NO.
6"	24"	10 3/4"	<b>S2450-L14 (Acrylic Shade)</b>
6"	24"	10 3/4"	<b>S2455-L14 (Solid Shade)</b>

## SPECIFICATIONS

**Driver:** 0-10V dimming to 1%, 120/277

**Mounting:** Mounts to all Standard Electrical Junction Boxes (by others) With Hardware Provided.

## FEATURES

- Opal Matte Acrylic or Solid Aluminum Cylinder
- Clear Silver Braided Cord
- LED 0-10V Dimming Driver

## ORDER AS A COMPLETE UNIT:

Model No. + Lamp Code + CCT + Finish + OA + Option Code

S2450-L14 (Acrylic)	+	27K	+	PT	+	OA	+	Option
S2455-L14 (Solid)		30K		BA				
		35K		BB				
		40K		BC				
				BN				
				PC				

## FINISHES

<b>BA</b> Brushed Aluminum	<b>BN</b> Brushed Nickel
<b>BB</b> Brushed Brass	<b>PC</b> Polished Chrome
<b>BC</b> Brushed Chrome	<b>PT</b> Powder Coated Finishes*

\*(Specify Color Code from the list of Powder Coating Finishes)

## OPTIONS

- EML** Remote 10W Emergency LED Battery Backup
- OA** Specify Overall Height of Fixture in Inches; E.G. – A48
- 1S** Single Stem
- OMBL** Opal Matte Bottom Lens (S2450 or S2455)
- CPBL** Clear Prismatic Bottom Lens (S2455 Only)
- WH0** White Cord
- BK0** Black Cord

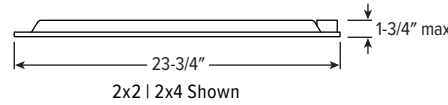
## LIGHT OUTPUT

### S2450

**LXX** = ~ 72 LPW Delivered Lumens (Example: L14 = 14W x 72LPW = 1000 Lumens)

### S2455

**LXX** = ~ 43 LPW Delivered Lumens (Example: L14 = 14W x 43LPW = 600 Lumens)



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



**FEATURES**

- Easily change the color temperature and lumen output on-site with built in switches, providing ultimate flexibility
- Backlit LED technology provides efficient and uniform lighting
- Simple and quick installation
- Seamless design prevents light leak
- Low UGR meets LEED and WELL requirements
- Skylight kit creates architectural design aesthetic
- Surface mount kit provides design continuity where ceiling access is restricted
- Parabolic louver kit provides classic styling detail with modern performance specifications
- Optional factory-installed battery backup provides 90 minutes of emergency illumination
- Shipped in 4-packs to reduce job-site waste
- PMMA lens reduces the risk of yellowing from UV exposure
- Rigid back enclosure prevents warping
- Rated for direct contact with insulation
- Available on QuickShip

**SPECIFICATIONS**

- HOUSING – Aluminum frame with steel die-formed back enclosure.
- OPTICS – Backlit PMMA lenses with PS diffuser.
- FINISH – Non-glare matte white polyester powder coat. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L90 >54,000 hours. 25°C max ambient operating temperature.
- MOUNTING – NEMA Type “G” 15/16” or 1” grid standard. Factory-installed earthquake clips provided for NEMA Type “NFG” and “SG” 9/16” grid installations. Skylight, surface mount, parabolic louver, and drywall kit options available, shipped separately, see options.
- LISTINGS –
  - cULus listed as LED luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL).
- WARRANTY – 5-year limited fixture warranty, see [hew.com/warranty](http://hew.com/warranty).

**ORDERING EXAMPLE: BP - 24 - LS/8CS - OPTIONS - DIM - UNV**

**ORDERING INFO**

SERIES	WIDTH	LENGTH	LUMENS <sup>[1]</sup>	CRI	CCT
BP	1 1' <sup>[2]</sup>	2 2' <sup>[3]</sup>	LS Selectable lumens 1x4: 3,100/3,600/4,700 2x2: 3,100/3,500/4,200 2x4: 3,500/4,700/5,700	8 80	CS Selectable CCT 3,500K/4,000K/5,000K
	2 2'	4 4'			

**OPTIONS**

- EM/8W** 8-watt emergency battery <sup>[4]</sup>
- EM/10W KIT CEC** 10-watt emergency battery kit, CEC compliant <sup>[5]</sup>
- DRYWALL FRAME-IN KITS <sup>[6]</sup>**
  - DFK-1248W** Drywall kit, 12"x48", white
  - DFK-2424W** Drywall kit, 24"x24", white
  - DFK-2448W** Drywall kit, 24"x48", white

**SURFACE MOUNT KITS <sup>[7]</sup>**

- BP14SMK-W** Surface mount kit, 1'x4', white
- BP22SMK-W** Surface mount kit, 2'x2', white
- BP24SMK-W** Surface mount kit, 2'x4', white

**SKYLIGHT KITS <sup>[8]</sup>**

- BP142SL-W** Skylight, 1'x4', 2" depth, white
- BP222SL-W** Skylight, 2'x2', 2" depth, white
- BP242SL-W** Skylight, 2'x4', 2" depth, white

**PARABOLIC LOUVER KITS <sup>[9]</sup>**

- BP1416S** Parabolic, 1'x4', 1'x6', 6-cell, semi-specular
- BP1416W** Parabolic, 1'x4', 1'x6', 6-cell, white
- BP2233S** Parabolic, 2'x2', 3'x3', 9-cell, semi-specular
- BP2233W** Parabolic, 2'x2', 3'x3', 9-cell, white
- BP2244S** Parabolic, 2'x2', 4'x4', 16-cell, semi-specular
- BP2244W** Parabolic, 2'x2', 4'x4', 16-cell, white
- BP2426S** Parabolic, 2'x4', 2'x6', 12-cell, semi-specular
- BP2426W** Parabolic, 2'x4', 2'x6', 12-cell, white
- BP2436S** Parabolic, 2'x4', 3'x6', 18-cell, semi-specular
- BP2436W** Parabolic, 2'x4', 3'x6', 18-cell, white
- BP2448S** Parabolic, 2'x4', 4'x8', 32-cell, semi-specular
- BP2448W** Parabolic, 2'x4', 4'x8', 32-cell, white

DRIVER	VOLTAGE
<b>DIM</b> Dim-to-off driver <sup>[10]</sup>	<b>UNV</b> 120-277V

**QUICKSHIP**

1x4	2x2	2x4
BP-14-LS/8CS-EM/8W-QS-DIM-UNV	BP-22-LS/8CS-EM/8W-QS-DIM-UNV	BP-24-LS/8CS-EM/8W-QS-DIM-UNV
BP-14-LS/8CS-QS-DIM-UNV	BP-22-LS/8CS-QS-DIM-UNV	BP-24-LS/8CS-QS-DIM-UNV

**NOTES**

- <sup>1</sup> Lumens based on 4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> 4' length only.
- <sup>3</sup> 2' width only.
- <sup>4</sup> Not available with Parabolic Louver Kits.
- <sup>5</sup> Ships separately, field installed.
- <sup>6</sup> Shipped separately, field installed. See page 4 for DRYWALL KIT (DFK) OPTIONS. DFK and BP housing colors are not identical.
- <sup>7</sup> Shipped separately, field installed. See page 5 for SURFACE MOUNT DETAILS.
- <sup>8</sup> Earthquake clips standard, 4 per fixture. Shipped separately, field installed. See page 5 for SKYLIGHT DETAILS.
- <sup>9</sup> Earthquake clips standard, 4 per fixture. Shipped separately, field installed. See page 4 for PARABOLIC LOUVER DETAILS.
- <sup>10</sup> Prewired for 0-10V low-voltage applications. Dimming down to 5%, dim-to-off below 0.5V

**FIXTURE PERFORMANCE DATA**

**STANDARD**

	WATTAGE SETTING	3500K			4000K			5000K			UNIFIED GLARE RATING (UGR) <sup>[1]</sup>	
		LUMEN OUTPUT	WATTAGE	EFFICACY (lm/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (lm/W)	LUMEN OUTPUT	WATTAGE	EFFICACY (lm/W)	CROSSWISE	ENDWISE
1x4	25	3002	26	115	3123	25	125	3014	25	121	21.5	21.4
	30	3396	30	113	3558	28	127	3414	30	114	21.9	21.8
	40	4687	41	114	4665	39	120	4412	40	110	22.9	22.8
2x2	25	2969	25	119	3115	24	130	3017	25	121	20.9	21.1
	30	3354	29	116	3549	28	127	3420	29	118	21.3	21.5
	40	4351	40	109	4163	38	110	4434	39	114	21.9	22.1
2x4	30	3452	29	119	3536	28	126	3464	28	124	18.8	18.7
	40	4491	39	115	4677	38	123	4522	40	113	19.8	19.7
	50	5361	48	111	5734	48	119	5479	50	110	20.5	20.4

**PARABOLIC LOUVER OPTION**

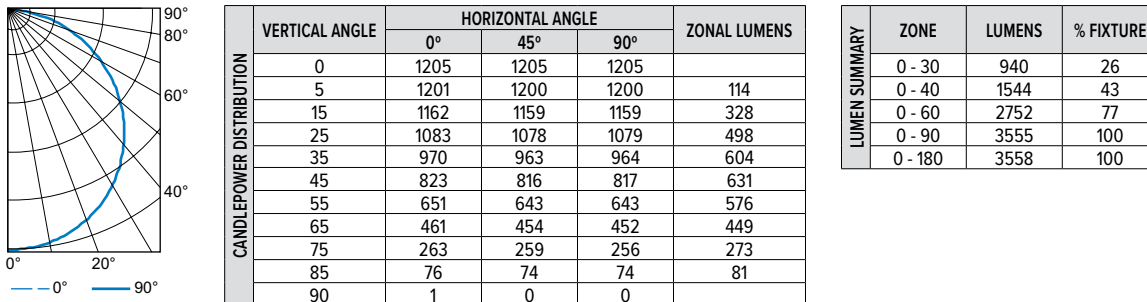
	WATTAGE SETTING	CELL COMBINATION	DELIVERED LUMENS		WATTAGE	EFFICACY (lm/W)		UNIFIED GLARE RATING (UGR) <sup>[1]</sup>											
			LOUVER FINISH			LOUVER FINISH		WHITE		SEMI-SPEC									
			WHITE	SEMI-SPEC		WHITE	SEMI-SPEC	CROSSWISE	ENDWISE	CROSSWISE	ENDWISE								
1x4	25	1x6	2760	2596	25	110.4	103.8	Testing in process, consult factory											
	30		3145	2957	28	112.3	105.6												
	40		4123	3878	39	105.7	99.4												
2x2	25	3x3	2621	2412	24	109.2	100.5	19.1   19.1   17.4   17.5											
	30		2986	2748	28	106.7	98.2												
	40		3503	3224	38	92.2	84.8												
	25	4x4	2479	2232	24	103.3	93.0					Testing in process, consult factory							
	30		2825	2543	28	100.9	90.8												
	40		3314	2982	38	87.2	78.5												
2x4	30	2x6	2906	2709	28	103.8	96.7	18.5   18.5   16.2   16.1											
	40		3843	3583	38	101.1	94.3												
	50		4712	4392	48	98.2	91.5												
	30	3x6	2826	2597	28	100.9	92.8					Testing in process, consult factory							
	40		3739	3436	38	98.4	90.4												
	50		4583	4212	48	95.5	87.8												
	30	4x8	2648	2379	28	94.6	85.0									17.2   17.1   15.7   15.4			
	40		3502	3147	38	92.2	82.8												
	50		4294	3858	48	89.5	80.4												

- Results based on 80 CRI/4000K CCT, actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.

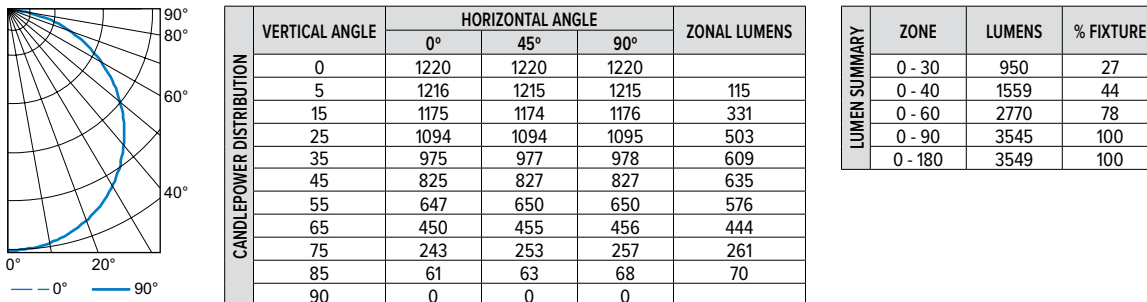
<sup>1</sup> UGR reference values based on 4H x 8H room size with 70%, 50%, and 20% reflectance. Actual values vary based on luminaire options and application specifications.

**PHOTOMETRY**

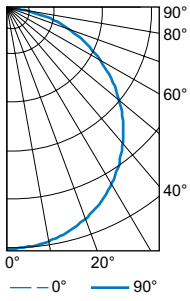
**BP-14-LS/8CS-DIM-UNV\_30W** Total Luminaire Output: 3558 lumens; 28 Watts | Efficacy: 127 lm/W | 80 CRI; 4000K CCT



**BP-22-LS/8CS-DIM-UNV\_30W** Total Luminaire Output: 3549 lumens; 28 Watts | Efficacy: 127 lm/W | 80 CRI; 4000K CCT



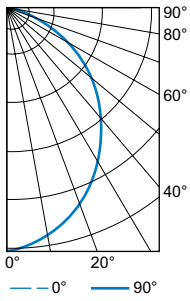
**BP-24-LS/8CS-DIM-UNV\_40W** Total Luminaire Output: 4677 lumens; 38 Watts | Efficacy: 123 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
		0	1608	1608	
5	1601	1599	1600	152	
15	1550	1545	1546	437	
25	1445	1438	1438	664	
35	1290	1285	1284	804	
45	1091	1087	1086	838	
55	856	851	848	760	
65	595	591	588	584	
75	329	327	323	343	
85	91	85	81	94	
90	1	0	0		

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1253	27
	0 - 40	2057	44
	0 - 60	3655	78
	0 - 90	4676	100
	0 - 180	4677	100

**BP-22-LS/8CS-BP2233W-DIM-UNV\_40W** Total Luminaire Output: 3503 lumens; 38 Watts | Efficacy: 92 lm/W | 80 CRI; 4000K CCT

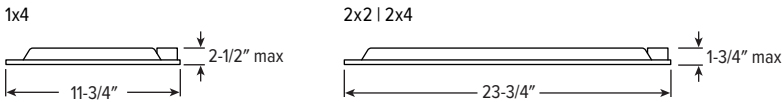


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
		0	1642	1642	
5	1626	1624	1622	153	
15	1496	1475	1492	418	
25	1324	1273	1320	596	
35	1116	1049	1111	671	
45	871	801	867	639	
55	618	558	612	518	
65	333	321	328	319	
75	136	136	136	145	
85	38	38	39	43	
90	1	2	3		

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1167	33
	0 - 40	1838	53
	0 - 60	2995	86
	0 - 90	3503	100
	0 - 180	3503	100

**RECESSED DETAILS**

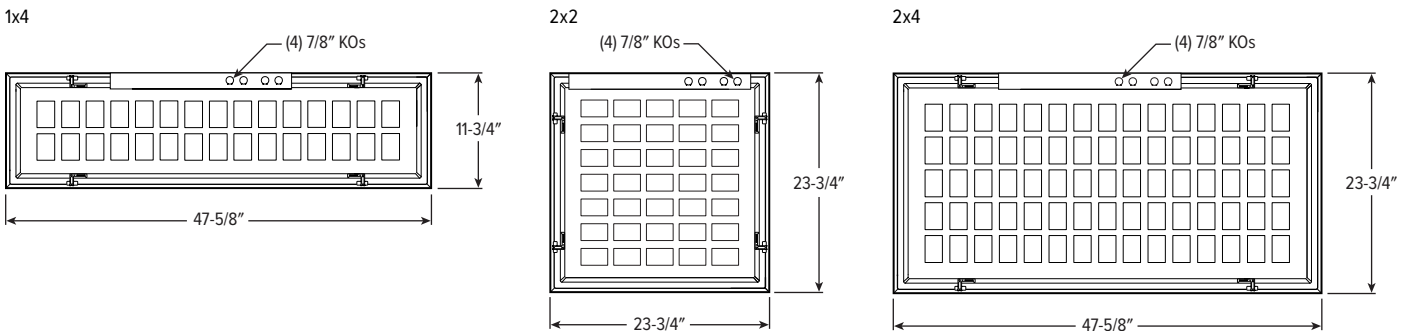
**END VIEW**



**FIELDSELECT DETAILS**



**BACK VIEW**



**DRYWALL KIT (DFK) OPTIONS**

**ORDERING INFO**

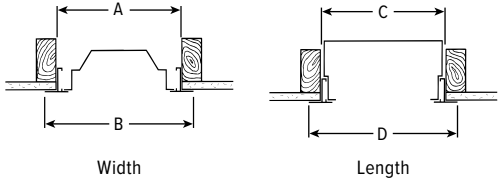
EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	12 1'	48 4'	W White AMW Anti-microbial white
	24 2'	24 2'	
	24 2'	48 4'	

**INSTALLATION DIMENSIONS**

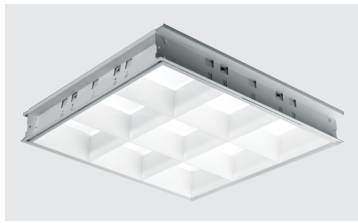
NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1' x 4'	12-3/8"	48-3/8"	13-5/16"	49-5/16"
2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

**TYPICAL INSTALLATION**

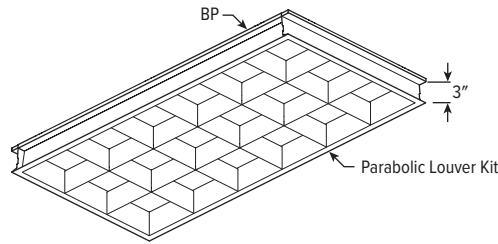
Refer to table for dimensions.



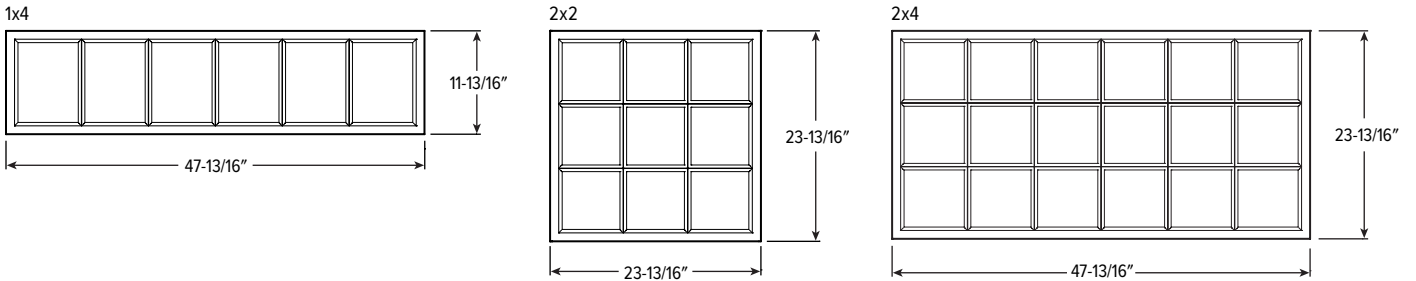
**PARABOLIC LOUVER DETAILS**



2x2 Shown

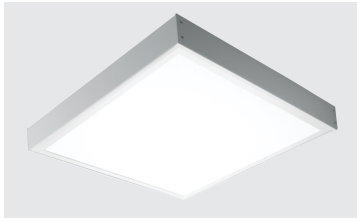


**BOTTOM VIEW**



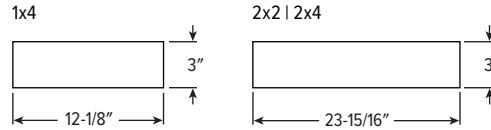
SEE NEXT PAGE FOR SURFACE MOUNT AND SKYLIGHT DETAILS.

**SURFACE MOUNT DETAILS**

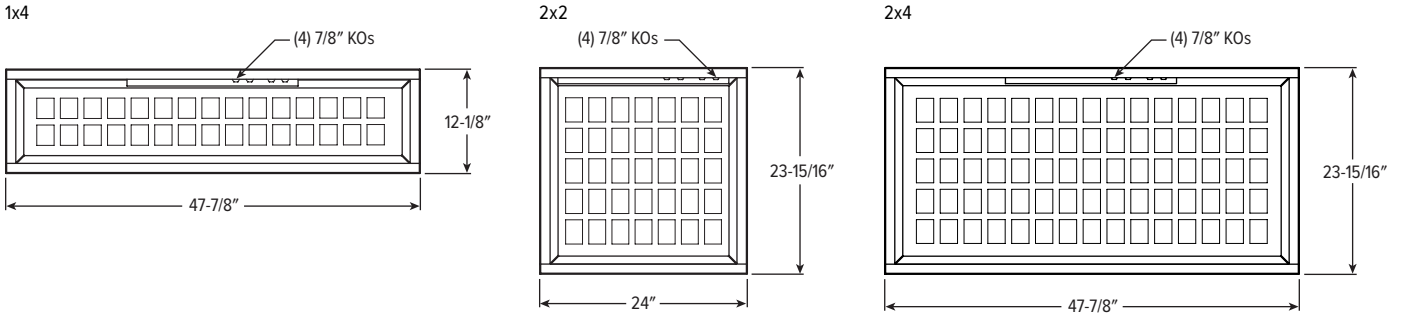


2x2 Shown

**END VIEW**



**BACK VIEW**

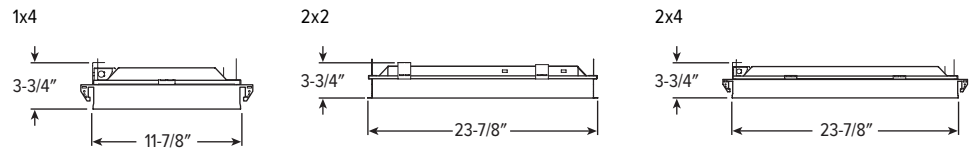


**SKYLIGHT DETAILS**

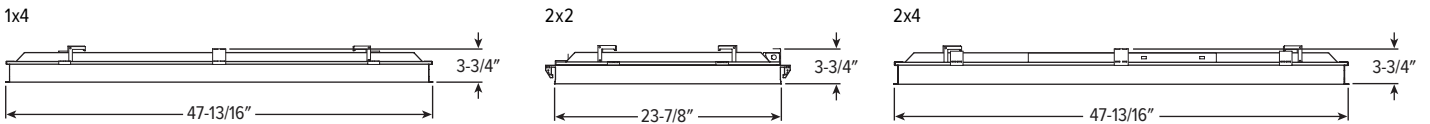


2x2 Shown

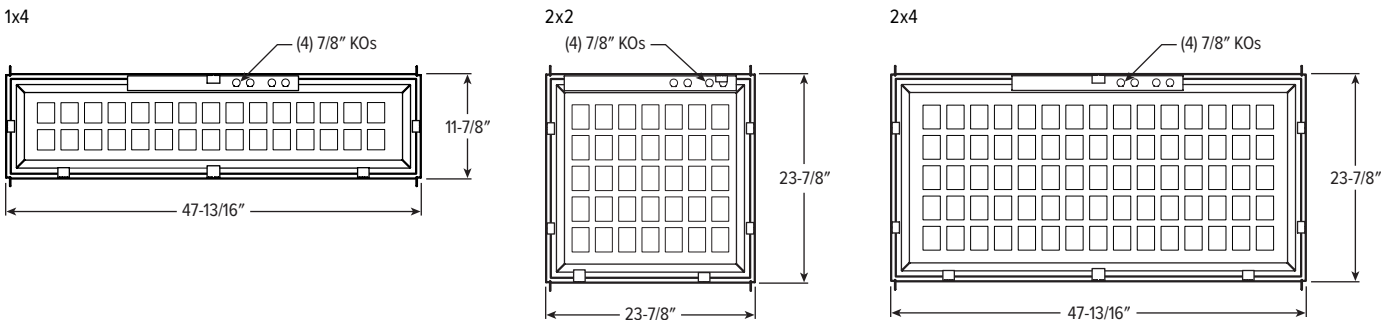
**END VIEW**



**SIDE VIEW**

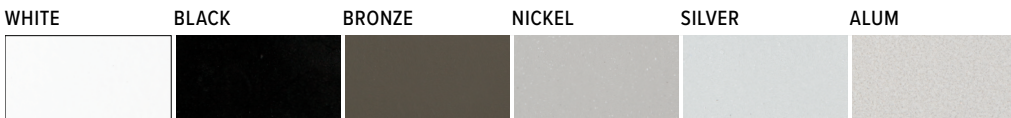


**BACK VIEW**



**FINISH OPTIONS**

**SURFACE AND SKYLIGHT KITS ONLY.**



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

**SPECIFICATIONS**

**Certifications/Qualifications**

ADA Compliant	Yes
Prop65	No
Dark Sky Compliant	No
Location Rating	Damp
	<a href="http://kichler.com/warranty">kichler.com/warranty</a>

**Dimensions**

Height	4.75"
Width	24.75"
Height From Center Of Wall Opening (Spec Sheet)	2.5"
Extension	3.75"
Weight	2.2 LBS
Canopy Height	4.75"
Canopy Width	11"
Canopy Depth	1.5"

**Electrical**

Input Voltage	120-277 V
---------------	-----------

**Light Source**

Light Source	Integrated LED
Lamp Included	Integrated
# Of Bulbs/LED Modules	1
Max Or Nominal Watt	22 W
Max Wattage/Range	22
Dimmable	Yes

**Photometrics**

Color Rendering Index	90
Color Temperature Range	3000 K
Delivered Lumens	1425
Delivered Efficacy (Lumens/Watt)	65

**Mounting/Installation**

Interior/Exterior	Interior Product
Mounting Weight	1.9 LBS
Modular	Yes
Lead Wire Length	6

**FIXTURE ATTRIBUTES**

**Housing/Glass**

Primary Material	Steel
Shade Included	No
Shade Dimensions	2.75 DIA X 25.00

**Product/Ordering Information**

SKU	11253NILED
Finish	Brushed Nickel
UPC	783927545426

**Finishes**



**ALSO IN THIS FAMILY**



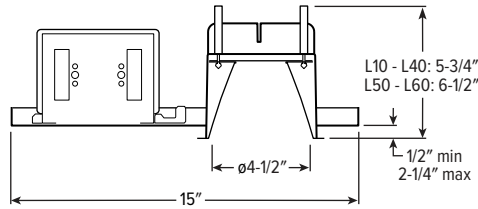
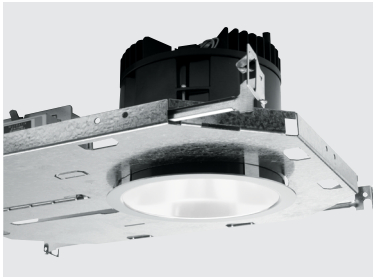
11254NILED



11255NILED



# 4DR LED 4.5" Downlight – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

## NEW CONSTRUCTION AND REMODEL



ORDERING EXAMPLE: **4DR - TL - L20/835 - OPTIONS - CONTROL/DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1**

### HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS	CONTROL	DRIVER	VOLTAGE
<b>4DR - TL</b>	<b>L10</b> 1,000lm <sup>[2]</sup>	<b>8</b> 80	<b>27</b> 2700K	<i>See page 3 for EMERGENCY BATTERY OPTIONS.</i>	<i>See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.</i>	<i>See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.</i>	<b>UNV</b> 120-277V
TrimLock	<b>L15</b> 1,500lm	<b>9</b> 90 <sup>[3]</sup>	<b>30</b> 3000K	<b>SCA_</b> Sloped ceiling adaptor <sup>[4]</sup>	<b>-</b> None	<b>DIM</b> Dimming driver, 0-10V	<b>347</b> 347V <sup>[10]</sup>
	<b>L20</b> 2,000lm		<b>35</b> 3500K	<b>ATH</b> Airtight construction	<b>AVI-LVFA</b> Avi-on wireless fixture control <sup>[7]</sup>	<b>DIM1</b> 1% Dimming driver, 0-10V	
	<b>L30</b> 3,000lm		<b>40</b> 4000K	<b>F</b> Fuse	<b>AWNR</b> Lutron Athena wireless node integral fixture control, RF only <sup>[8]</sup>	<b>DA</b> Driver with 12V auxiliary power, without external dimming wires <sup>[9]</sup>	
	<b>L40</b> 4,000lm		<b>50</b> 5000K	<b>CP</b> Chicago plenum (CCEA) <sup>[5]</sup>			
	<b>L50</b> 5,000lm			<b>SDT</b> Stepdown transformer <sup>[6]</sup>			
	<b>L60</b> 6,000lm						

### TRIM <sup>[11]</sup>

TRIM TYPE	DISTRIBUTION <sup>[12]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
<b>O</b> Open reflector	<b>W</b> Wide	<b>OF</b> 1/2" standard flange	<b>Open trim types</b>	<b>MWT</b> Textured white trim flange <sup>[20]</sup>
<b>L</b> Flush lens	65° Open		<b>CS</b> Clear semi-specular anodize	<b>IP</b> IP65 rated trim <sup>[21]</sup>
<b>R</b> Regressed lens	50° Flush		<b>SG</b> Satin-glow anodize	<b>AD</b> Diffuse acrylic lens <sup>[22]</sup>
<b>A</b> Angled lens <sup>[13]</sup>	50° Regressed	<b>SF</b> 1/4" mud-in flange <sup>[18]</sup>	<b>GD</b> Gold anodize	<b>PD</b> Diffuse 1/8" polycarbonate lens <sup>[23]</sup>
<b>S</b> Non-conductive flush lens for shower applications <sup>[14]</sup>	<b>M</b> Medium <sup>[15]</sup>		<b>CG</b> Champagne gold anodize	<b>TD</b> Diffuse polycarbonate lens media at top of open reflector <sup>[24]</sup>
	45° Open		<b>PW</b> Pewter anodize	<b>WET/CC</b> Wet location, covered ceiling listed <sup>[25]</sup>
	35° Flush		<b>SPC</b> Clear specular anodize	<b>AM</b> Anti-microbial <sup>[26]</sup>
	30° Regressed		<b>RG</b> Rose gold anodize	
	<b>N</b> Narrow <sup>[16]</sup>		<b>WH</b> White texture powder coat	
	10° Open		<b>BL</b> Black texture powder coat	
	25° Flush			
	25° Regressed			
	<b>WW</b> Wall wash <sup>[17]</sup>			

### MOUNTING

MOUNTING TYPE <sup>[27]</sup>	MOUNTING HARDWARE <sup>[28]</sup>
<b>N</b> Open pan for new construction	<b>F1</b> Integral 2-position fixed pan bracket, universal bar hanger included <sup>[31]</sup>
<b>I</b> IC-rated enclosure for new construction <sup>[29]</sup>	<b>BA1</b> Adjustable butterfly pan bracket, bar hanger not included <sup>[32]</sup>
<b>R</b> Remodel kit <sup>[30]</sup>	<b>CA1</b> Adjustable caterpillar pan bracket, universal bar hanger included <sup>[33]</sup>

### NOTES

- <sup>1</sup> Lumen output based on O trim type, W distribution, CS finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> Not available with EM/10W emergency batteries.
- <sup>3</sup> Extended lead times may apply. Consult factory for availability.
- <sup>4</sup> 9" aperture, specify degrees of slope in 5° increments, 05°-30°. Not available with I Mounting Type, S Trim Type, ATH, IP, or WET/CC Options. Painted white. Other colors available, consult factory. See page 4 for SLOPED CEILING ADAPTOR DETAILS.
- <sup>5</sup> I Mounting Type required.
- <sup>6</sup> May be required for 347V, see product builder at [hew.com/product-builder](http://hew.com/product-builder).
- <sup>7</sup> DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- <sup>8</sup> DA Driver only.
- <sup>9</sup> Avi-on and Lutron Athena Controls only.
- <sup>10</sup> Not available with EM batteries, DA, or DMX drivers.
- <sup>11</sup> Trim ships separately.
- <sup>12</sup> Beam angle based on CS or WH reflector finish.
- <sup>13</sup> Available with WW Distribution only.
- <sup>14</sup> W Distribution, OF Flange Type, WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
- <sup>15</sup> Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- <sup>16</sup> Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- <sup>17</sup> O and A Trim Types only.
- <sup>18</sup> For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP options.
- <sup>19</sup> R Trim Type only. Not available with MWT.
- <sup>20</sup> Not available with WH Reflector Finish, L or S Trim Types.
- <sup>21</sup> L and R Trim Types only.
- <sup>22</sup> Not available with O trim type. W and WW distributions only.
- <sup>23</sup> Not available with O trim type. W and WW distributions only.
- <sup>24</sup> O Trim Type only. WET/CC standard unless ordered with EM/RTS. L50 lumen package max.
- <sup>25</sup> L50 lumen package max with O Trim Type. Not available with PD trim option.
- <sup>26</sup> WH and BL Reflector Finishes only. Not available with S Trim Type.
- <sup>27</sup> Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- <sup>28</sup> Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- <sup>29</sup> L20 lumen package max. L30 available, wide distribution only for lensed trims. Not available with EM batteries or Lutron Athena Controls.
- <sup>30</sup> Also used in new construction sheetrock ceilings. Pan-less installation.
- <sup>31</sup> N and I Mounting Types only. I Mounting requires external brackets.
- <sup>32</sup> N Mounting Type only.
- <sup>33</sup> N Mounting Type only.

# 4DR LED 4.5" Downlight – Round

## FEATURES

### TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Beam angles ranging from 10° narrow to 65° wide for tailored performance
- Die-cast trim choices include flush, regressed or angled lens
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Fully room-side accessible
- Industry-leading efficacies as high as 114 lm/W – ENERGY STAR® certified
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Sloped adapter accommodates vaulted ceilings
- Optional non-conductive lens for shower applications
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Available on QuickShip
- Wireless in-fixture control solutions available

## SPECIFICATIONS

- HOUSING – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2" – 2-1/4".
- TRIMLOCK – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L50 and L60 lumen packages.

## LISTINGS –

- cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.
- Suitable for wet location under covered ceiling when specified with WET/CC or TD options.
- ENERGY STAR® certified in select configurations, see [www.energystar.gov](http://www.energystar.gov)
- IC-rated for direct contact with insulation when specified with I Mounting Type.
- City of Chicago Environmental Air approved when specified with CP option.
- Complies with ASTM-E283 when specified with ATH option.
- RoHS compliant.
- Title 24 (JAB) compliant in select configurations, see [www.cacertappliances.energy.ca.gov](http://www.cacertappliances.energy.ca.gov).
- Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	9.0	1027	114	674	75	660	73
	M	9.0	999	111	895	99	895	99
	N	9.0	1000	111	914	102	882	98
L15	W	13.9	1466	106	994	72	972	70
	M	13.9	1471	106	1319	95	1319	95
	N	13.9	1473	106	1347	97	1300	94
L20	W	19.8	2005	101	1352	68	1323	67
	M	19.8	2002	101	1794	91	1795	91
	N	19.8	2004	101	1833	93	1769	89
L30	W	27.8	2985	107	2022	73	1979	71
	M	27.8	2900	104	2683	97	2685	97
	N	27.8	2734	98	2741	99	2646	95
L40	W	38.0	3979	105	2695	71	2638	69
	M	38.0	3865	102	3577	94	3579	94
	N	38.0	3644	96	3654	96	3527	93
L50	W	45.2	5124	113	3364	74	3292	73
	M	45.2	4956	110	-	-	-	-
	N	45.1	4818	107	-	-	-	-
L60	W	57.6	6035	105	4016	70	3933	68
	M	57.6	6026	105	-	-	-	-
	N	57.6	6032	105	-	-	-	-

## MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02

	90 CRI	
	CCT	CONVERSION FACTOR
	2700K	0.76
	3000K	0.79
	3500K	0.82
4000K	0.84	
5000K	0.88	

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC <sup>2</sup>	0.85

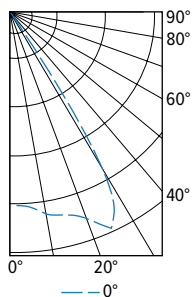
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG <sup>1</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
R TRIM	RG	0.88
	WH <sup>1</sup>	0.89
	BL <sup>1</sup>	0.47
	WH	1.00
	CS	0.98
	BL	0.79

- Photometrics tested in accordance with IESNA LM-79. Results based on O trim type, W distribution, CS finish, 80 CRI/3500K CCT, wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

- <sup>1</sup> Distribution will also be affected, consult factory.
- <sup>2</sup> Use multiplier when specified with O Trim Type.

## PHOTOMETRY

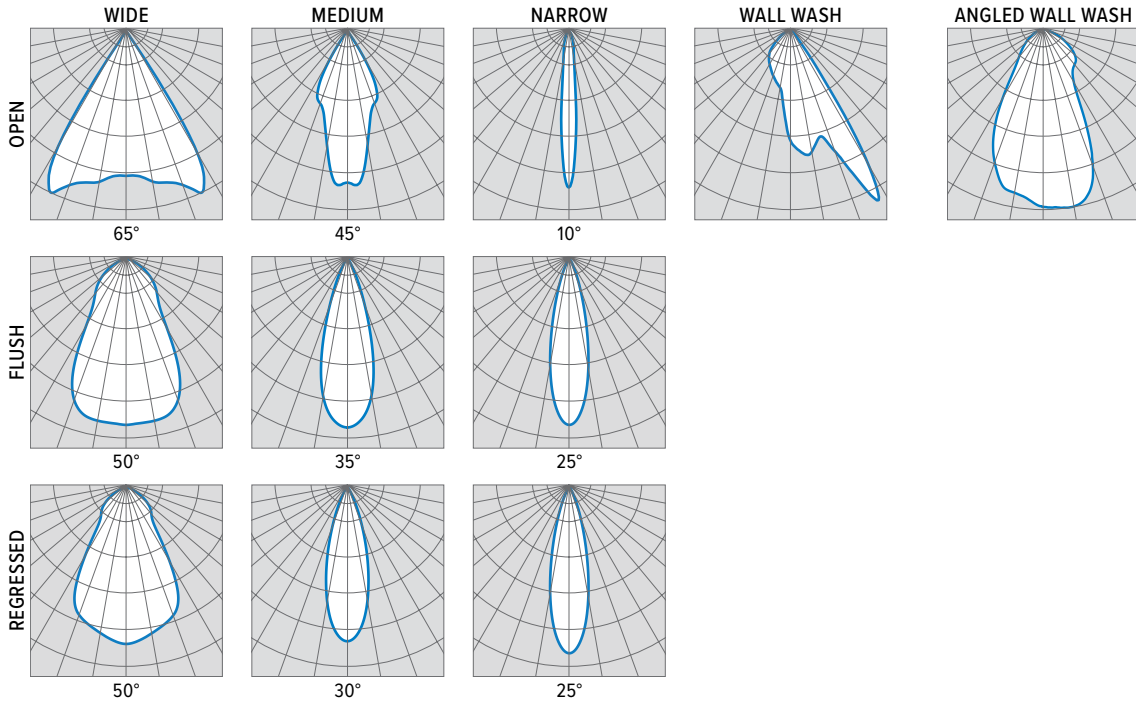
4DR-TL-L20/835-DIM-UNV-OW-OF-CS Report #: 20685; 12/13/18 | Total Luminaire Output: 2005 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 83.1 CRI; 3472K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1810	
	5	1864	178
	15	1960	556
	25	2231	1033
	35	307	193
	45	44	35
	55	11	10
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1959	98
	0 - 60	2004	100
	0 - 90	2005	100
	0-180	2005	100

# 4DR LED 4.5" Downlight – Round



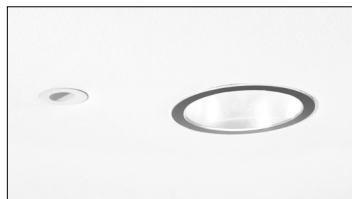
## EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

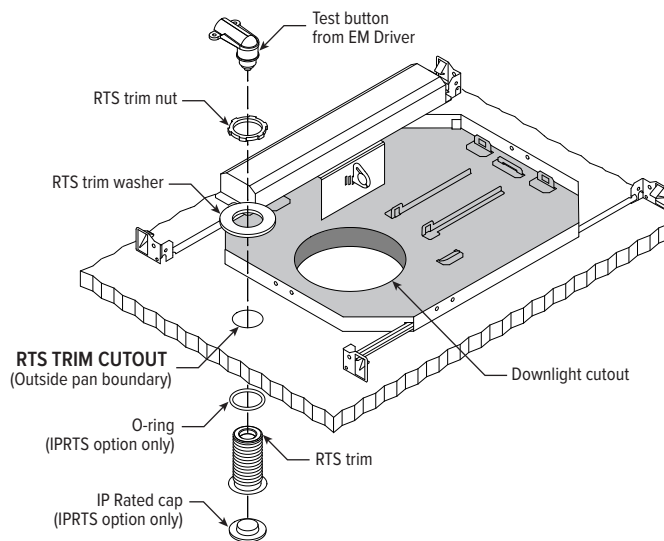
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery <sup>[1]</sup>
EM/7W/RTS	7-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery <sup>[1]</sup>
EM/10W/RTS	10-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch

- <sup>1</sup> Not available with S Trim Type or IP Option.
- <sup>2</sup> Not available with S Trim Type, IP or WET/CC Options.

## REGRESSED TEST SWITCH DETAILS

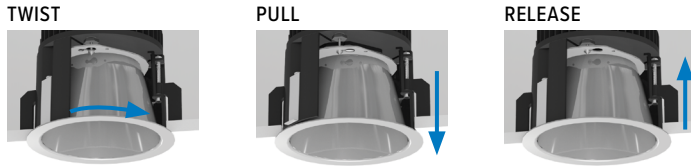


Shown Installed

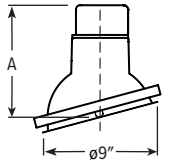


# 4DR LED 4.5" Downlight – Round

## TRIMLOCK DETAILS



## SLOPED CEILING ADAPTOR DETAILS



Ceiling cutout: ø9-3/8"

LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L10 - L30	8-13/16"	8-15/16"	9"	8-15/16"	8-7/8"	8-11/16"	9-1/4"
L40 - L60	9-9/16"	9-11/16"	9-11/16"	9-5/8"	9-1/2"	9-5/16"	10"

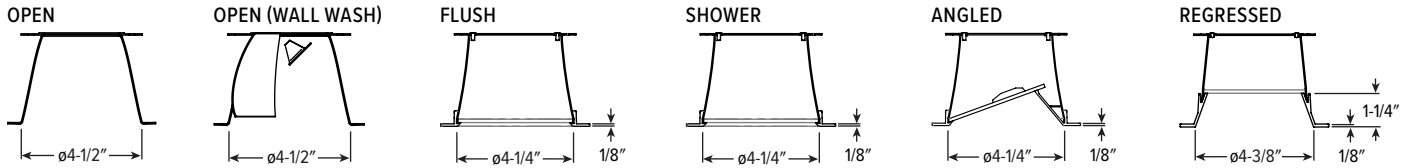
15° Shown

## APERTURE ADAPTOR ORDERING INFO

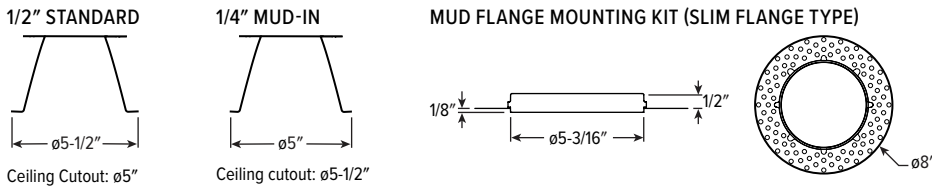
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575	CS Clear semi-specular powder coat
4DR 6DR			WH White texture powder coat
4DS 6DS			BL Black texture powder coat
4PR 6PR			
4PS 6PS			
8DR			

For use with remodel downlights. Additional finishes available, consult factory. For limitations and instructions, see [hew.com/aperture-adaptor.pdf](http://hew.com/aperture-adaptor.pdf)

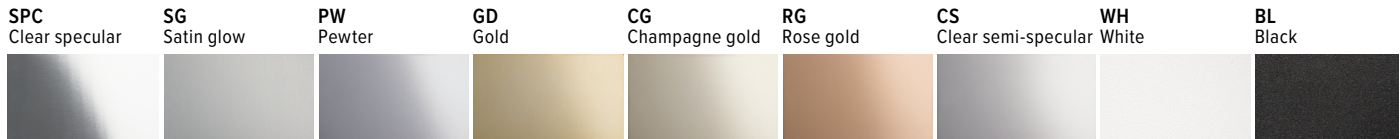
## TRIM TYPE DETAILS



## FLANGE TYPE DETAILS



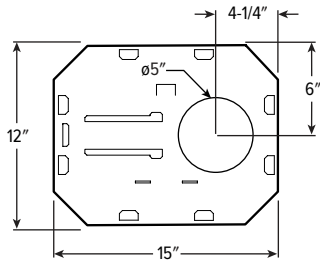
## REFLECTOR FINISH DETAILS



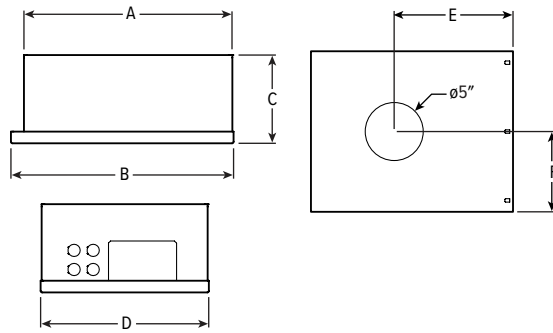
# 4DR LED 4.5" Downlight – Round

## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION

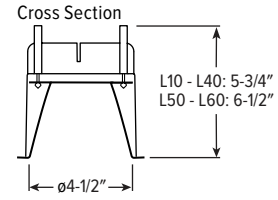


### IC-RATED

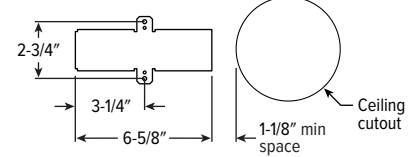


LUMENS	LENGTH					
	A	B	C	D	E	F
L10 - L20	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"
L30	16-5/8"	17-1/2"	7-7/8"	14"	10-1/4"	7"

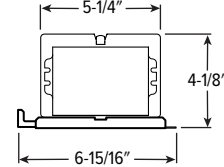
### REMODEL



### Receiver Bracket

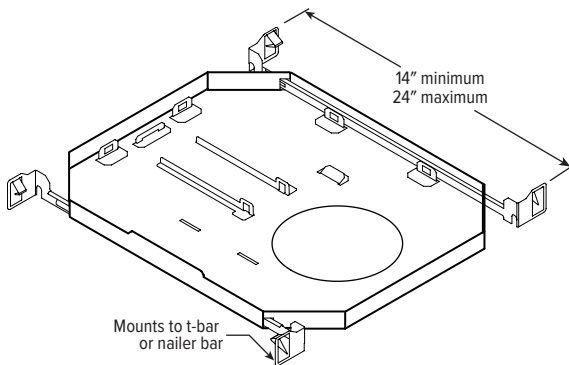


### Driver and Junction Box

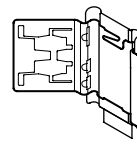


## MOUNTING HARDWARE DETAILS

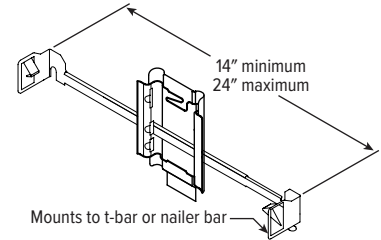
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



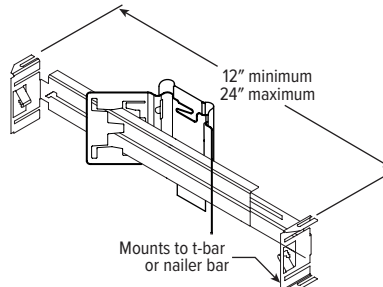
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



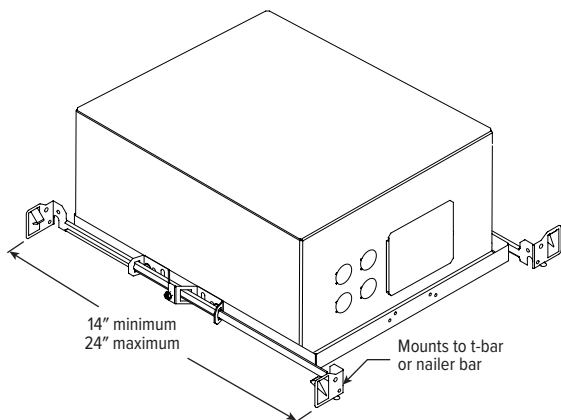
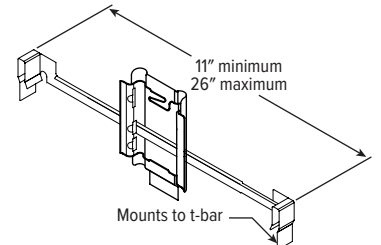
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



**CA2** Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)



F1 with I Mounting Type



# 4DR LED 4.5" Downlight – Round

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

#### Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

#### Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning Mobile App

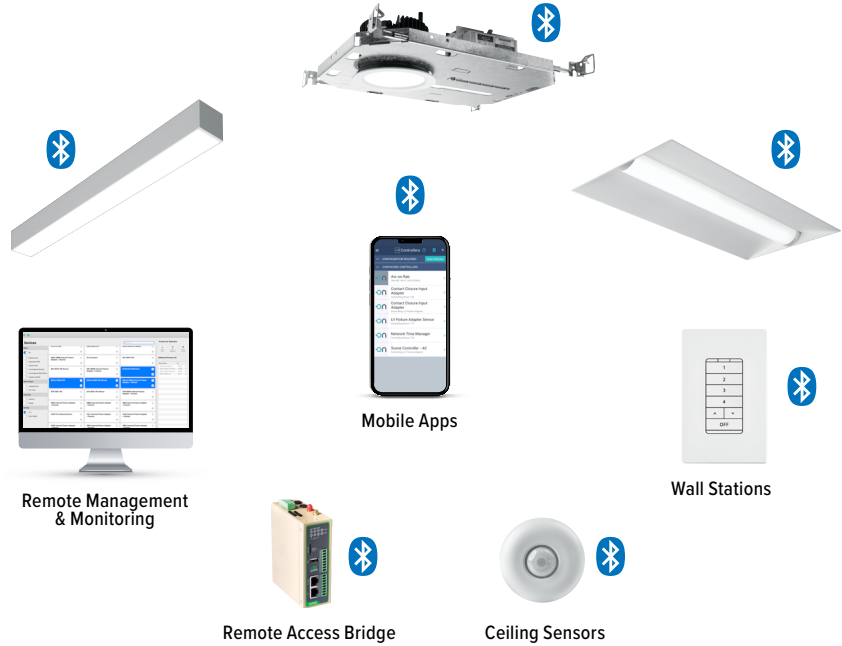


Zone Scanner Web App



Commissioning Pro App

### SYSTEM COMPONENTS



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

### ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

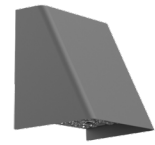
For load controllers and additional accessory info, see [hew.com/avi-on](http://hew.com/avi-on)

### ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L50 max for DALI driver, L15 min to L60 max for DIM LINE driver. R mounting type requires top access with DMX controls. R Mounting Type not available with FCJS controls. R Mounting Type requires 12" minimum plenum depth when specified with VRF/DBI controls. 347V may require stepdown transformer, see product builder at [hew.com/product-builder](http://hew.com/product-builder). I Mounting Type not available with Lutron controls.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power
AWNDR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, with Lutron Hi-lume 1% EcoSystem dimming LED driver
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DALI	DALI dimming driver
DMX	0.1% dimming driver for DMX controls
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver





Geoform wedge small LED wall sconce GWS features a compact geometric design that will complement a range of architectural styles. GeoForm wedge small features specialized, highly efficient optics which balance low glare with excellent performance. Type 2, 3 and 4 optical distributions are available with up to 5500 lumens. A diffuser lens option is also available for over doorway applications. Emergency battery backup option provides path-of-egress illumination. Multiple control options, including wireless Interact Pro outdoor, further enhance energy savings.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering guide

example: GWS-A01-830-T2M-120-BK

Luminaire	Configuration (nom. lumens)	Color Temperature	Distribution	Voltage	Dimming Controls <sup>2</sup>	Electrical	Options	Finish
<b>GWS</b>								
GWS GeoForm Wedge Small	A01 <sup>1</sup> 1,500 lumens	830 80CRI 3000K	T2M Type 2	120 120V	none Leave blank (0-10V dimming driver standard)	none Leave blank (10kV kA surge protection standard)	none Leave blank	Textured BK Black WH White BZ Bronze DG Dark Gray MG Medium Gray  Customer specified OC Specify optional color or RAL, contact factory SC Special Color (must supply color chip, requires factory quote)
	A02 <sup>1</sup> 2,500 lumens	840 80CRI 4000K	T3M Type 3	208 208V				
	A03 4,000 lumens	740 70CRI 4000K	T4M Type 4	240 240V				
	A04 5,000 lumens	750 70CRI 5000K	DFL Diffusing lens	277 277V				
	A05 6,000 lumens			UNV 120-277V				
				347 347V	DLEA <sup>2</sup> Dimming Leads Externally Accessible (controls by others)	SP2 Surge Protector 20kV/10kA	BAC <sup>4</sup> Meets the requirements of the Buy American Act of 1933 (BAA)	
				480 480V	FAWS <sup>2</sup> Field Adjustable Wattage Selector	FS1 Single Fuse (120, 277, or 347VAC)		
				HVU 347-480V		FS2 Double Fuse (208V, 240V, or 480V)		
						PCB <sup>3</sup> Photocontrol Button (120-277V)		

1. Only available from 120-277V, or in UNV.
2. Only one option can be selected from Dimming Controls column.
3. Only available from 120-277V, must specify voltage.
4. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
5. Consult Signify to confirm whether specific accessories are BAA-compliant.

### Luminaire Accessories (order separately)<sup>5</sup>

- GF-WS-BK Wall Mounted Box for surface conduit, painted black  
 GF-INV Inversion Mounting kit (required with inverted mounting)





# GWS GeoForm wedge small

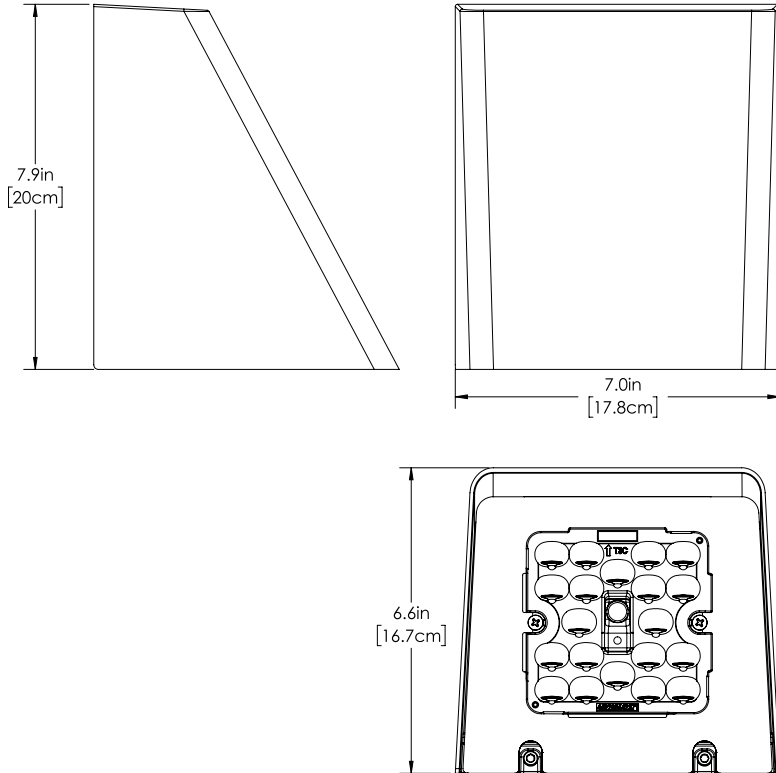
## Wall sconce

### Dimensions

GWS Wedge

Standard

Weight: 5.5 Lbs (2.5kg)



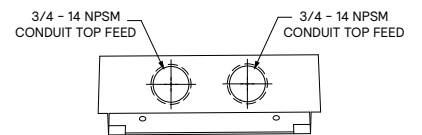
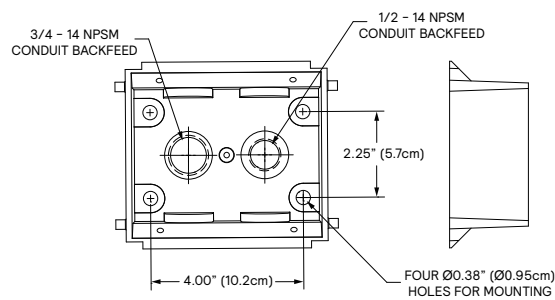
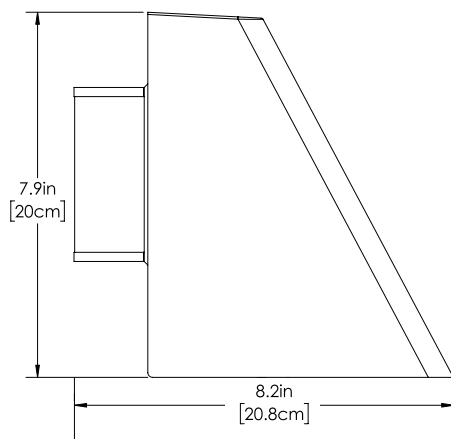
### Accessory details

#### Surface mount conduit box (GF-WS-BK)

GWS Wedge with surface conduit wall mount box

Weight: 5.9 Lbs (2.7kg)

#### GF-WS-BK Details





# GWS GeoForm wedge small

## Wall sconce

### GWS Lumen values

#### 3000K, 80CRI

Ordering Code	CCT	CRI	Average System Wattage	Type 2M			Type 3M			Type 4M		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
GWS-A01-830	3000	80	10	1483	B1-U0-G1	145	1503	B1-U0-G1	147	1467	B0-U0-G1	144
GWS-A02-830	3000	80	17	2478	B1-U0-G1	147	2511	B1-U0-G1	149	2452	B1-U0-G1	145
GWS-A03-830	3000	80	25	3522	B1-U0-G1	143	3570	B1-U0-G1	145	3485	B1-U0-G1	142
GWS-A04-830	3000	80	34	4601	B1-U0-G1	137	4664	B1-U0-G1	139	4553	B1-U0-G1	136
GWS-A05-830	3000	80	41	5501	B2-U0-G2	134	5575	B2-U0-G2	136	5443	B1-U0-G1	132

#### 4000K, 80CRI

Ordering Code	CCT	CRI	Average System Wattage	Type 2M			Type 3M			Type 4M		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
GWS-A01-840	4000	80	10	1537	B1-U0-G1	151	1558	B1-U0-G1	153	1521	B0-U0-G1	149
GWS-A02-840	4000	80	17	2569	B1-U0-G1	152	2604	B1-U0-G1	154	2542	B1-U0-G1	151
GWS-A03-840	4000	80	25	3652	B1-U0-G1	148	3701	B1-U0-G1	150	3613	B1-U0-G1	147
GWS-A04-840	4000	80	34	4771	B1-U0-G1	142	4835	B2-U0-G2	144	4721	B1-U0-G1	141
GWS-A05-840	4000	80	41	5703	B2-U0-G2	139	5780	B2-U0-G2	141	5643	B1-U0-G2	137

#### 4000K, 70CRI

Ordering Code	CCT	CRI	Average System Wattage	Type 2M			Type 3M			Type 4M		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
GWS-A01-740	4000	70	10	1732	B1-U0-G1	170	1756	B1-U0-G1	172	1714	B1-U0-G1	168
GWS-A02-740	4000	70	17	2895	B1-U0-G1	171	2934	B1-U0-G1	174	2865	B1-U0-G1	170
GWS-A03-740	4000	70	25	4115	B1-U0-G1	167	4171	B1-U0-G1	170	4072	B1-U0-G1	166
GWS-A04-740	4000	70	34	5376	B2-U0-G2	160	5449	B2-U0-G2	163	5320	B1-U0-G1	159
GWS-A05-740	4000	70	41	6427	B2-U0-G2	156	6514	B2-U0-G2	158	6359	B1-U0-G2	155

#### 5000K, 70CRI

Ordering Code	CCT	CRI	Average System Wattage	Type 2M			Type 3M			Type 4M		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
GWS-A01-750	5000	70	10	1663	B1-U0-G1	163	1686	B1-U0-G1	165	1646	B1-U0-G1	161
GWS-A02-750	5000	70	17	2780	B1-U0-G1	165	2818	B1-U0-G1	167	2751	B1-U0-G1	163
GWS-A03-750	5000	70	25	3952	B1-U0-G1	161	4005	B1-U0-G1	163	3910	B1-U0-G1	159
GWS-A04-750	5000	70	34	5163	B2-U0-G2	154	5233	B2-U0-G2	156	5109	B1-U0-G1	153
GWS-A05-750	5000	70	41	6172	B2-U0-G2	150	6255	B2-U0-G2	152	6107	B1-U0-G2	149

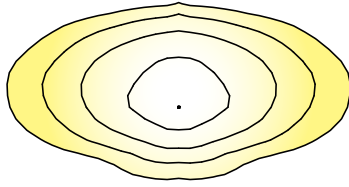
### LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	CCT	CRI	Avg. System Wattage (W)	Type 2		Type 3		Type 4		DFL	
				Lumen Output	BUG Rating	Lumen Output	BUG Rating	Lumen Output	BUG Rating	Lumen Output	BUG Rating
GWS-A01/2/3/4/5-830-x-EM	3000	80	6	856	B0-U0-G0	868	B0-U0-G0	847	B0-U0-G1	717	B1-U0-G0
GWS-A01/2/3/4/5-840-x-EM	4000	80	6	887	B0-U0-G0	899	B0-U0-G0	878	B0-U0-G1	743	B1-U0-G0
GWS-A01/2/3/4/5-740-x-EM	4000	70	6	1000	B0-U0-G0	1014	B0-U0-G0	990	B0-U0-G1	838	B1-U0-G0
GWS-A01/2/3/4/5-750-x-EM	5000	70	6	960	B0-U0-G0	973	B0-U0-G0	950	B0-U0-G1	804	B1-U0-G0

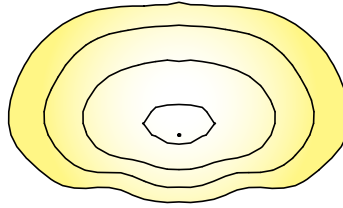
# GWS GeoForm wedge small

## Wall sconce

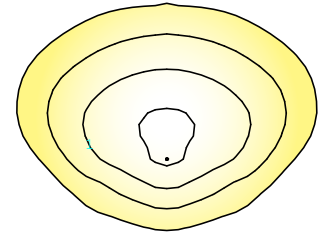
### Optical Distributions



Type 2



Type 3



Type 4

### Specifications

#### Construction

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Removable die cast backplate to allow access to driver or other electronic components for servicing. The housing acts as the main heat sinking component, for maximum thermal dissipation. Giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

**IK Rating** IK08 high impact resistance rating for both the housing and optics

**IP Rating** IP65 rated luminaire with IP66 rated light engine

#### Light engine

Electrical components are RoHS compliant, IP66 sealed light engine equipped LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

#### LED Module

LED PCBA made of 20 LEDs populated on aluminum metal clad board for optimal thermal dissipation ensuring long LED life.

#### Optical System

Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. 0% uplight and U0 per IESNA TM-15.

#### Mounting

Mounting is achieved through integral back plate that features a hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Mounting plate is located in the center of the luminaire body. Luminaire ships fully assembled, ready to install. GeoForm requires a mounting kit accessory for use of inverted luminaires. Mounting kit includes Safety Cable and hardware. GeoForm with Precision Plus optics are suitable for damp locations only when inverted.

#### Installation

GeoForm features an integral hook on its mounting plate which allows a single installer to perform wiring without assistance. See installation instructions for complete details.

#### Control options

**0-10V dimming (DLEA):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

**Note:** Typical value accuracy +/- 5%

**Emergency Battery Backup (EM):** Emergency battery packs included integral to the luminaire, allowing for a consistent look between emergency and non-emergency luminaires. Emergency is suitable for use in ambient temperature conditions from 0°C (32°F) to 40°C (104°F) designed to have a secondary driver with relay to immediately detect AC power loss to power luminaire for a minimum of 90 minutes from the time power is lost. Available with 120-277V, or 'UNV' only.

#### Electrical

**Driver:** Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. 0-10V dimming driver down to 10% standard. RoHS compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP2):** Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

# GWS GeoForm wedge small

## Wall sconce

### Specifications (cont'd)

#### Listings

**UL/cUL** listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). All GeoForm configurations are qualified under Design Lights Consortium® Premium category. Consult DLC Qualified Products List on Specific Classifications and for more details. CCTs 3000K and warmer are IDA Dark Sky Approved. FCC Compliant.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powder coat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

#### Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: [signify.com](https://www.signify.com)

#### Warranty

GeoForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](https://www.signify.com/warranties) for complete details and exclusions.

### Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L<sub>70</sub> is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L<sub>70</sub> hours limited to 6 times actual LED test hours

Ambient Temperature °C	Drive current	L <sub>70</sub> per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1200 mA	>102,000 hours	>91%

# ILLUMINA®

TITLE 20 TITLE 24



## BS100LED

- The **ILLUMINA®** BS100LED is corrosion, flame and vandal resistant.
- **HOUSING:** 100% UV stabilized polycarbonate, liquid silicone perimeter gasket with memory retention.
- **DIFFUSER:** Frosted UV stabilized polycarbonate diffuser, for even light distribution and color stabilization.
- **LUMEN:**

<b>2 FT</b>	<b>4 FT</b>
LO: 30W @ 3876 to 4635 lm	VLO: 30W @ 4375 to 5208 lm
MO: 40W @ 5176 to 6172 lm	LO: 40W @ 5555 to 6627 lm
HO*: 50W @ 6464 to 7716 lm	MO: 50W @ 6944 to 8284 lm
* 3000K qualifies for DLC std	HO: 60W @ 8318 to 9946 lm
	VHO: 70W 9714 to 11,589 lm
- **OPERATING TEMP:** HT (AC Only) -40°F to 104°F (-40°C to 40°C)  
SA (AC & Emergency) 32°F to 104°F (0°C to 40°C)
- **POWER FACTOR:** Power Factor > 0.95
- **TOTAL HARMONIC DISTORTION (THD):** < 20%
- **WEIGHT:** 2 FT: 5 lbs (2.3 kg) / 4FT: 10 lbs (4.5 kg)



**APPLICATION:** The **BS100LED** is ideal for various commercial applications including retail, industrial, parking garages, carport, parking structures, warehouses, breezeways, canopies, schools, and much more. It can be installed both indoor and outdoor.

### ORDERING INFORMATION

Example: BS100LED4 HT HO WT40 120-277V FSP221

MODEL	LENGTH	OPERATION	OUTPUT	COLOR TEMP	INPUT	MOUNTING	OPTIONS
BS100LED	2 (ft)	HT (AC only)	VLO <sup>1</sup>	WT30 (3000K)	120-277V	blank (surface mount standard)	BLK <sup>4</sup> (black housing, 4t only)
	4 <sup>1</sup> (ft)	SA <sup>2</sup> (AC & EM)	LO	WT35 (3500K)	347-480V		CRD <sup>5</sup> (black, 18AWG)
			MO	WT40 (4000K)		JM <sup>3</sup> (j-box mount)	D (dali 2)
			HO	WT50 (5000K)		FA <sup>6</sup> (fully assembled)	
			VHO <sup>1</sup>				SP (surge protection - 10KA)
							SS (stainless steel clips)
							FP (fuse protection - 3A)
							TPS (tamper proof screws)
							IS <sup>7,9</sup> (internal occ sensor)

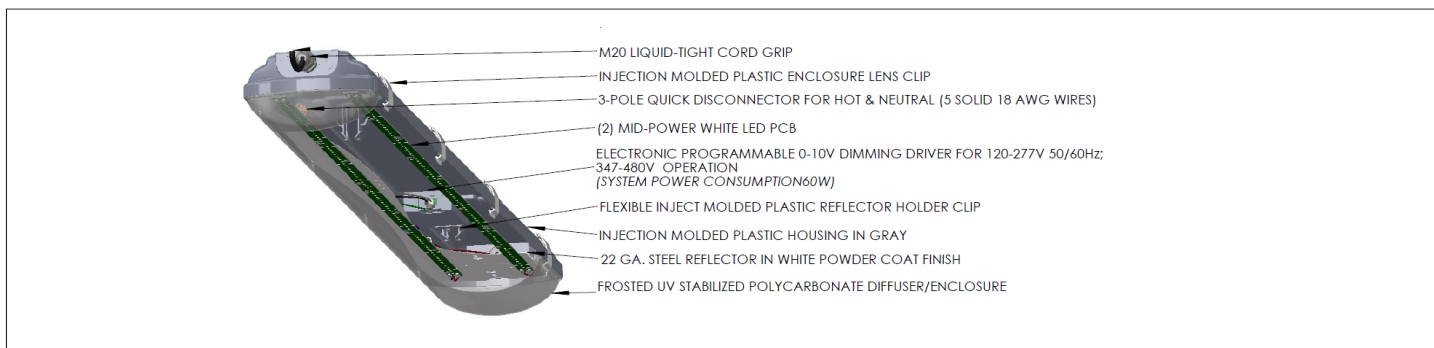
### CONTROLS & ACCESSORIES

1PKxWBS02 <sup>11,12</sup> (single pendant kit, 2' fixture, white, x=length)	2CH48 <sup>12</sup> (48" chain hang kit, field cuttable)	QMBWBS04 <sup>14</sup> (IP66 quick mount bracket, 4' fixture)
1PKxWBS04 <sup>11,12</sup> (single pendant kit, 4' fixture, white, x=length)	EMDCB <sup>9</sup> (BT wireless motion and lux sensor)	RLY <sup>9</sup> (wireless relay)
1SPKxWBS02 <sup>11,12</sup> (swivel single pendant kit, 2' fixture, white, x=length)	HHRFSIR <sup>10</sup> (handheld remote for FSP221)	SW1 <sup>9</sup> (single BT wireless switch)
1SPKxWBS04 <sup>11,12</sup> (swivel single pendant kit, 4' fixture, white, x=length)	MLM1 <sup>9</sup> (wireless motion and lux sensor)	TM22BS04 <sup>12</sup> (22" trunnion mount, 4' fixture)
2PKxW <sup>11,12</sup> (double pendant kit, white, x=length)	MM <sup>13</sup> (magnet mount)	
2SPKxW <sup>11,12</sup> (swivel double pendant kit, white, x=length)	PM (pivot mount)	
2ACx <sup>12</sup> (adjustable aircraft cable, x=length: 50=50", 72=72")	QMBWBS02 <sup>14</sup> (IP66 quick mount bracket, 2' fixture)	

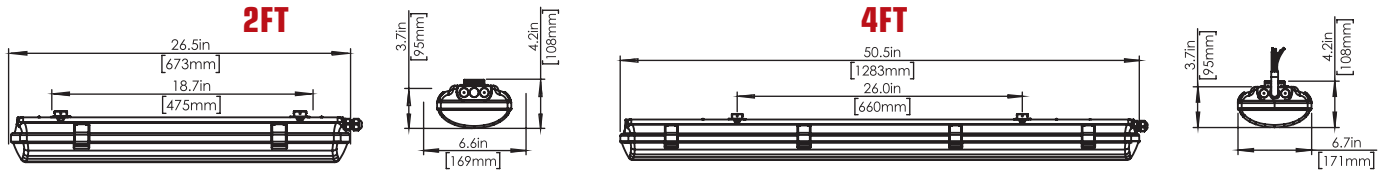
NOTE 1: VLO and VHO outputs available for 4ft only  
 NOTE 2: Title 20 emergency pack; 120/277V; 2FT: 7W/1022 lm; 4FT: 10W/1573 lm  
 NOTE 3: JM: direct j-box mount maintains fixture IP66 rating  
 NOTE 4: Contact factory for lead time  
 NOTE 5: Specify length for CRD, specify 3 or 5-conductor  
 NOTE 6: Includes latches, grommets, etc. installed at the factory for quick installation  
 NOTE 7: IS is std Beggelli sensor; FSP221, Magnum ISM1 and other sensors also available

NOTE 8: OS is std Beggelli sensor (Magnum OSM1, CRMB9, OSFSP221, SBOR and other sensors also available)  
 NOTE 9: Beggelli offers wireless and powerless control solutions, contact factory for more details  
 NOTE 10: FSP221 and OSFSP221 require HHRFSIR handheld remote accessory  
 NOTE 11: Standard pendant lengths "x" = 12 (12"), 24 (24") and 48 (48")  
 NOTE 12: Consult factory for non-standard lengths  
 NOTE 13: Magnetic mounts must be installed to steel beam measuring minimum 3/16" thick  
 NOTE 14: Quick Mount bracket requires JM mount; FA option recommended for maximum labor savings

### TECHNICAL INFORMATION



## DIMENSIONS

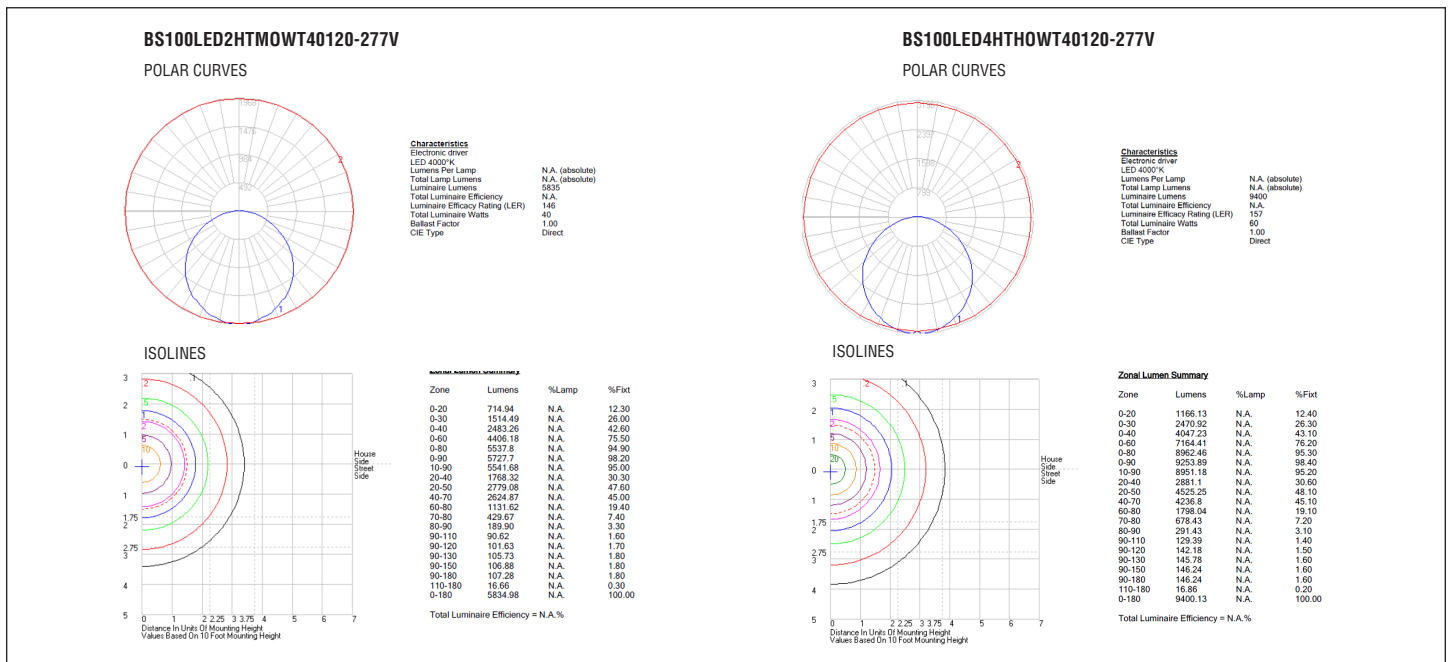


## MOUNTING OPTIONS & ACCESSORIES

<b>Surface Mount (standard)</b> 	<b>Aviation Cable Kit (2AC50, 2AC72)</b> 	<b>Chain Hang Kit (2CH48)</b> 	<b>Double Pendant Kit (2PK12W, 2PK24W, 2PK48W)</b> 	<b>J-Box &amp; Quick Mount Bracket Mount (JQM)</b> 
<b>Magnet Mount Kit MM</b> 	<b>Pivot Mount Kit PM</b> 	<b>Single Pendant Kit (1PKxWBS04, x=12", 24", 48")</b> 	<b>Swivel Double Pendant Kit (2SPK12W, 2SPK24W, 2SPK48W)</b> 	<b>Swivel Single Pendant Kit (1SPKxWBS04, x=12", 24", 48")</b> 
				<b>Trunnion Mount Kit (TM22BS04)</b> 

**NOTE:** When wall mounted, DAMP LOCATION LISTED

## PHOTOMETRICS



# ILLUMINA® BS100LED

ADDITIONAL INFORMATION

## ENERGY CHART

MODEL	LENGTH	EFFICACY	CONSUMPTION WATTAGE	LUMEN OUTPUT	CRI	L70 (HRS) TESTED	L70 (HRS) PROJECTED
<b>2FT</b>							
BS100LED-2HT-LO-WT30-120-277V	2 ft	129 lm/W	30	3876	>80	>60,000	>100,000
BS100LED-2HT-LO-WT40-120-277V	2 ft	146 lm/W	30	4381	>80	>60,000	>100,000
BS100LED-2HT-LO-WT50-120-277V	2 ft	154 lm/W	30	4635	>80	>60,000	>100,000
BS100LED-2HT-MO-WT30-120-277V	2 ft	129 lm/W	40	5176	>80	>60,000	>100,000
BS100LED-2HT-MO-WT40-120-277V	2 ft	146 lm/W	40	5835	>80	>60,000	>100,000
BS100LED-2HT-MO-WT50-120-277V	2 ft	154 lm/W	40	6172	>80	>60,000	>100,000
BS100LED-2HT-HO-WT30-120-277V	2 ft	129 lm/W	50	6464	>80	>60,000	>100,000
BS100LED-2HT-HO-WT40-120-277V	2 ft	146 lm/W	50	7301	>80	>60,000	>100,000
BS100LED-2HT-HO-WT50-120-277V	2 ft	154 lm/W	50	7716	>80	>60,000	>100,000
<b>4FT</b>							
BS100LED-4HT-VLO-WT30-120-277V	4 ft	146 lm/W	30	4375	>80	>60,000	>100,000
BS100LED-4HT-VLO-WT40-120-277V	4 ft	165 lm/W	30	4937	>80	>60,000	>100,000
BS100LED-4HT-VLO-WT50-120-277V	4 ft	174 lm/W	30	5208	>80	>60,000	>100,000
BS100LED-4HT-LO-WT30-120-277V	4 ft	139 lm/W	40	5555	>80	>60,000	>100,000
BS100LED-4HT-LO-WT40-120-277V	4 ft	157 lm/W	40	6264	>80	>60,000	>100,000
BS100LED-4HT-LO-WT50-120-277V	4 ft	166 lm/W	40	6627	>80	>60,000	>100,000
BS100LED-4HT-MO-WT30-120-277V	4 ft	139 lm/W	50	6944	>80	>60,000	>100,000
BS100LED-4HT-MO-WT40-120-277V	4 ft	157 lm/W	50	7831	>80	>60,000	>100,000
BS100LED-4HT-MO-WT50-120-277V	4 ft	166 lm/W	50	8284	>80	>60,000	>100,000
BS100LED-4HT-HO-WT30-120-277V	4 ft	139 lm/W	60	8318	>80	>60,000	>100,000
BS100LED-4HT-HO-WT40-120-277V	4 ft	157 lm/W	60	9400	>80	>60,000	>100,000
BS100LED-4HT-HO-WT50-120-277V	4 ft	166 lm/W	60	9946	>80	>60,000	>100,000
BS100LED-4HT-VHO-WT30-120-277V	4 ft	139 lm/W	70	9714	>80	>60,000	>100,000
BS100LED-4HT-VHO-WT40-120-277V	4 ft	157 lm/W	70	10955	>80	>60,000	>100,000
BS100LED-4HT-VHO-WT50-120-277V	4 ft	166 lm/W	70	11589	>80	>60,000	>100,000

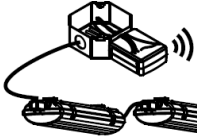


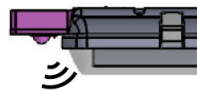

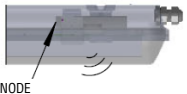




## ELECTRICAL RATING

PRODUCT	NOMINAL POWER (W)	AC CURRENT (A) AC VOLTAGE		FREQUENCY (HZ)	DC VOLTAGE (V)	DC CURRENT (MA)
		120 V	277 V			
<b>2FT</b>						
BS100LED-2HT-LO	30	0.26	0.11	50/60	45	600
BS100LED-2HT-MO	40	0.34	0.15	50/60	45	800
BS100LED-2HT-HO	50	0.43	0.18	50/60	45	1000
<b>4FT</b>						
BS100LED-4HT-VLO	30	0.26	0.11	50/60	45	600
BS100LED-4HT-LO	40	0.34	0.15	50/60	45	800
BS100LED-4HT-MO	50	0.43	0.18	50/60	45	1000
BS100LED-4HT-HO	60	0.51	0.22	50/60	45	1200
BS100LED-4HT-VHO	70	0.59	0.26	50/60	45	1400

## DIMMER COMPATIBILITY

DIMMER	COMPATABILITY	
	ON/OFF	DIMMING
<b>2FT</b>		
LEVITON - AWRMG-7	YES	YES
LUTRON - DIVE - DVSTV	YES	YES
LUTRON - DIVE - DVTV	YES	YES
WATT STOPPER - DCLV1	YES	YES
<b>4FT</b>		
LEVITON - AWRMG-7	YES	YES
LUTRON - DIVE - DVSTV	YES	YES
LUTRON - DIVE - DVTV	YES	YES
WATT STOPPER - DCLV1	YES	YES

## BEGHELLI LIGHTING CONTROL SOLUTIONS

DAISY CHAIN FIXTURES (RELAY)			EXTERNAL NODE & SENSOR (OS)	
<p><b>RLY*</b> Wireless Relay (Damp Location)</p>  <p>Max range: 100ft Max fixtures: 20</p>	<p><b>EMDCB*</b> Remote Sensor (Damp Location)</p> 	<p><b>SW1*</b> Single Switch (Damp Location)</p> 	<p><b>OS</b> (Beghelli standard) (Wet Location)</p> <p>(EXTERNAL)</p>  <p>External occ sensor options: <b>OSM1*</b>, <b>SBOR</b>, <b>CRMB9</b>, <b>OSFSP221</b>, etc.</p>	<p><b>SW1*</b> Single Switch (Damp Location)</p> 
INTEGRATED NODE (NOD)			INTEGRATED NODE & SENSOR (IS)	
<p><b>NOD*</b> Node</p>  <p>NODE</p>	<p><b>EMDCB*</b> Remote Sensor (Damp Location)</p> 	<p><b>SW1*</b> Single Switch (Damp Location)</p> 	<p><b>IS</b> (Beghelli standard) (Wet Location)</p> <p>Mounted on lens</p>  <p>Internal occ sensor options: <b>ISM1*</b>, <b>FSP221</b>, etc.</p>	<p><b>SW1*</b> Single Switch (Damp Location)</p> 

\* Magnum control options also available (RLYM1 relay, MLM1 sensor, SW1M1 switch, NODM1 node and ISM1 and OSM1 sensors)

❖ Beghelli offers standard wired and wireless control solutions. Beghelli fixtures are compatible with most control solutions available in the market, consult factory for more details.

■ **WARRANTY:** 5 years, see website for full warranty details