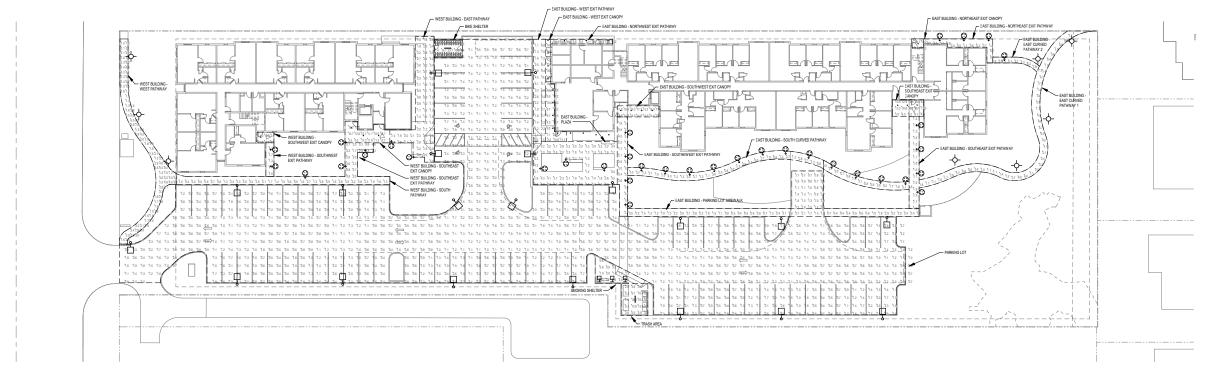
	EXTERIOR LUMINAIRE SCHEDULE										
FIXTURE TYPE	PRODUCT DESCRIPTION	LOCATION	BASIS OF DESIGN MANUFACTURER/SERIES	SIZE	INPUT WATTS	LAMP SOURCE	CONTROL GEAR	INPUT VOLTAGE	FINISH	MOUNTING	NOTES
S1	PARKING LOT POLE FIXTURES	PARKING LOT	LIGMAN MAR 20' POLE	28"W X 17"L	38	LED 3000K CCT 80 CRI 4559 DELIVERED LM TYPE 3 DISTRIBUTION	0-10V	120 V	PER ARCHITECT	ON GRADE	
S2	PEDESTRIAL POLE	PATHWAYS	LIGMAN MAR 12' POLE	28"W X 17"L	38	LED 3000K CCT 80 CRI 4559 DELIVERED LM TYPE 3 DISTRIBUTION	0-10	120 V	PER ARCHITECT	ON GRADE	
S3	BOLLARD	PATHWAYS	LIGMAN JET	6.3"W X 10.6"LX39.3"H	14.3	LED 3000K CCT 85 CRI 1867 DELIVERED LM	0-10	120 V	PER ARCHITECT	ON GRADE	
S4	WALL PACK	EXTERIOR DOORS AND TRASH AREA	LIGMAN GINO 4 SERIES	8"W x 3.2"H x 4.3"D	8	LED, 3000K	INTEGRAL 0-10V DIMMING	MVOLT	STANDARD PER ARCHITECT	SURFACE WALL	
S5	SURFACE MOUNTED LINEAR	SMOKING AREA	HE WILLIAMS 96	7.38"W X 4.18"H X 4'L	30	LED 3000K CCT 85 CRI 4000 DELIVERED LM	0-10V	120 V	PER ARCHITECT	SURFACE	
L6	RECESSED DOWNLIGHT	EXTERIOR CANOPY	GOTHEM EVO	6"D	19.7W	LED 3000K, 90 CRI 2006 LUMENS	INTEGRAL	120V	PER ARCH	RECESSED	

LIGHTING CALCULATION SUMN	ЛARY	
in footcandles ARFA	AVERAGE	мах/мі
WEST BUILDING - FAST PATHWAY	2.44	8
WEST BUILDING - SOUTH PATHWAY	1.78	8.7
WEST BUILDING - SOUTHEAST BUILDING EXIT CANOPY	10.96	3.9
WEST BUILDING - SOUTHEAST BUILDING EXIT PATHWAY	3.66	
WEST BUILDING - SOUTHWEST BUILDING EXIT CANOPY	8.35	5.2
WEST BUILDING - SOUTHWEST BUILDING EXIT PATHWAY	2.74	3.1
WEST BUILDING - WEST PATHWAY	3.42	10.6
EAST BUILDING - EAST CURVED PATHWAY 1	3.9	10
EAST BUILDING - EAST CURVED PATHWAY 2	5.73	2.5
EAST BUILDING - NORTHEAST BUILDING EXIT CANOPY	10.65	1.3
EAST BUILDING - NORTHEAST BUILDING EXIT PATHWAY	1.19	10.3
EAST BUILDING - NORTHWEST BUILDING EXIT	9.09	3.4
EAST BUILDING - PARKINGLOT SIDEWALK	1.39	8.7
EAST BUILDING - PLAZA	2.71	8.5
EAST BUILDING - SOUTH CURVED PATHWAY	2.22	10
EAST BUILDING - SOUTHEAST BUILDING EXIT CANOPY	10.69	4.5
EAST BUILDING - SOUTHEAST BUILDING EXIT PATHWAY	1.77	5.1
EAST BUILDING - SOUTHWEST BUILDING EXIT CANOPY	14.07	1.6
EAST BUILDING - SOUTHWEST BUILDING EXIT PATHWAY	3.24	8.1
EAST BUILDING - WEST BUILDING EXIT CANOPY	13.57	2.8
EAST BUILDING - WEST BUILDING EXIT PATHWAY	3.84	9.1
BIKE SHELTER	11.35	4.2
SMOKING SHELTER	2.81	1
TRASH AREA	8.05	6.5
PARKING LOT	1.27	

	LIGHTING
♦	S1 - POLE-MOUNTED S2 - POLE-MOUNTED
	S3 - BOLLARD S5 - LINEAR
모	S4 - WALL MOUNTED
0	L6 - CANOPY RECESSED



1 SITE PLAN - ELECTRICAL - LIGHTING CALCULATIONS
1" = 30'-0"

GENERAL NOTES:

THE LIGHTING ILLUMINATION SHOWN ON THIS DRAWING IS LESS THAN THAT REQUIRED BY FCC 10.374. THE LIGHTING DESIGN FOR THIS PROJECT IS BASED ON THE ILLUMINATING ENGINEERING SOCIETY (IES) STANDARDS AND OUR EXPERIENCE DESIGNING SIMILAR PROJECTS FOR THE SAFETY AND SECURITY OF USERS. THE LIGHTING HAS ALSO BEEN DESIGNED TO BE SENSITIVE TO THE VISUAL COMFORT OF THE RESIDENTS AND NEIGHBORS.

Exhibit B11

SHORE PINES HOUSING PROJECT

TAX LOT 500 PARCEL, HIGHWAY 101 AT 40TH ST. FLORENCE, OR 97439

NORTHWEST HOUSING ALTERNATIVES, INC 2316 SE WILLARD ST. MILWAUKIE OR 97222 503.654.1007 www.nwhousing.org

DAO ARCHITECTURE LLC 310 SW 4TH AVENUE, SUITE 810 PORTLAND, OR 97204

503.388.3680 www.daoarchitecture.com



KEY PLAN

LAND USE REVIEW UPDATE

2005

08/12/21

AS SHOWN

SITE PLAN - LIGHTING **CALCULATIONS**

SHEET NUMBER

E1.0A



MAR

Fixture Type S1/S2











Circular column-mounted area downlight. Quintessential wolf in sheep's clothing; street lighting performance hidden inside urban lighting form.

Luminaire structure

- Die-cast aluminium housing
- Pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- Clear toughened glass
- Surge protection 10kV





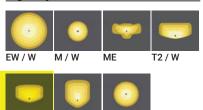
Feature

able





T3 / W



T4 / W

Product colour

06 - Bronze (RAL 6014)



Special finishes upon request



We reserve the right to make technical and design

https://www.ligman.com/mar-street-area-lighti ng-luminaires-ma-st3/

LIGMAN EUROPE s.r.o. VGP Park Ústí nad Labem 40317, Přestanov Czech Republic +420 477 071 500 sales.cz@ligman.com

ASIA PACIFIC LIGMAN Lighting Co.,Ltd. 17/2 Moo4 Monthong Bangnampreaw 24150, Chachoengsao Thailand +66 2 108 6700 info@ligman.com



MAR

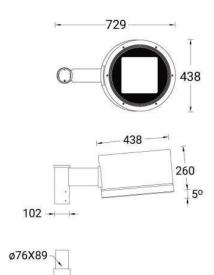
Fixture Type S1/S2

Technical information

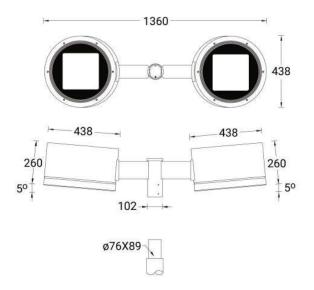
	Model number	Lamp	Power	Lumen	Optic	CCT / CRI	Dimming type	Weight	
1 side									
MAR 10	MA-97091	24 LED	38 W	4260 - 4917 lm	EW [108°], M [30°], ME [139°x58°], T2 [143°x47°], T3 [141°x70°], T4 [97°x77°], W [52°]	3000K CRI80, 4000K CRI80	DALI, 1-10V, On/Off	15.8 kg	9
MAR 10	MA-97092	24 LED	54 W	5777 - 6666 lm	EW [108°], M [30°], ME [139.°x58°], T2 [143°x47°], T3 [141°x71°], T4 [97°x77°], W [52°]	3000K CRI80, 4000K CRI80	DALI, 1-10V, On/Off	15.8 kg	•
2 sides									
MAR 11	MA-97101	24 LED	76 W	8520 - 9834 lm	EW [108°], M [30°], T2 [143°x47°], T3 [141°x71°], T4 [97°x77°], W [52°]	3000K CRI80, 4000K CRI80	DALI, 1-10V, On/Off	30.8 kg	
MAR 11	MA-97102	24 LED	108 W	11554 - 13332 lm	EW [108°], M [30°], T2 [143°x47°], T3 [141°x71°], T4 [97°x77°], W [52°]	3000K CRI80, 4000K CRI80	DALI, 1-10V, On/Off	30.8 kg	•

MAR

MAR 10



MAR 11



We reserve the right to make technical and design changes.

https://www.ligman.com/mar-street-area-lighting-luminaires-ma-st3/

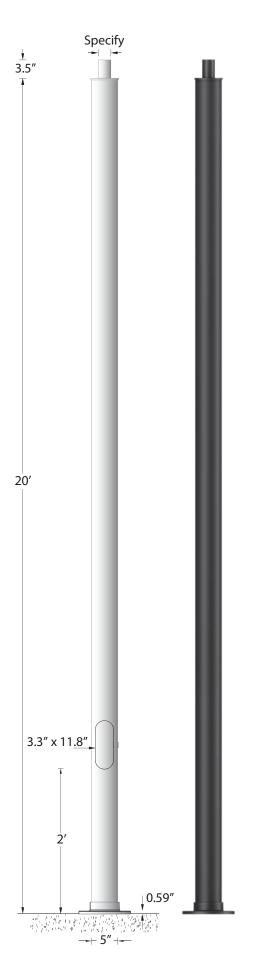
EUROPE LIGMAN EUROPE s.r.o. VGP Park Ústí nad Labem P. 2. 120 40317, Přestanov Czech Republic +420 477 071 500 sales.cz@ligman.com

ASIA PACIFIC ASIA PACIFIC LIGMAN Lighting Co.,Ltd. 17/2 Moo4 Monthong Bangnampreaw 24150, Chachoengsao Thailand +66 2 108 6700 info@ligman.com

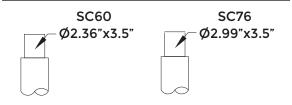
APD-RSA-5018-20'-5" DIA - .188"

Round Straight Aluminum Pole

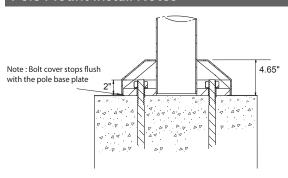




Tenon Post Top



Pole Mount Install Notes



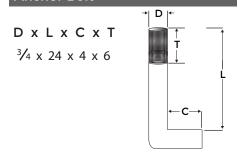
A level concrete base is poured and finished flush. This provides a uniform load displacement pad for the forces created by wind and luminaire weight

Failing to do this voids pole warranty Foundation and Design by Others

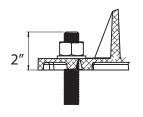
Physical Data

Pole Height: 20' Pole Diameter: 5" Thickness: 0.188" Weight: 73 lbs

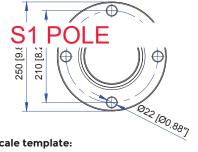
Anchor Bolt



Bolt Projection



Mounting Base



Not to scale template:

This drawing is being furnished for reference dimensions only and cannot be used as a template to set anchor bolts Since it is 'not to scale' Ligman accepts no responsibility for its intended use. Refer to site plans and specification before installing any anchor bolts.

Contact Ligman Lighting USA for bolt template prior to pouring anchor bolts

Wind Load Map



Die-Cast Base Cover



Maximum EPA

MPH	90	100	110	120	130
EPA	7.2	5.0	4.6	3.7	3.0

85 mph 90 mph 100 mph 110 mph

130 mph

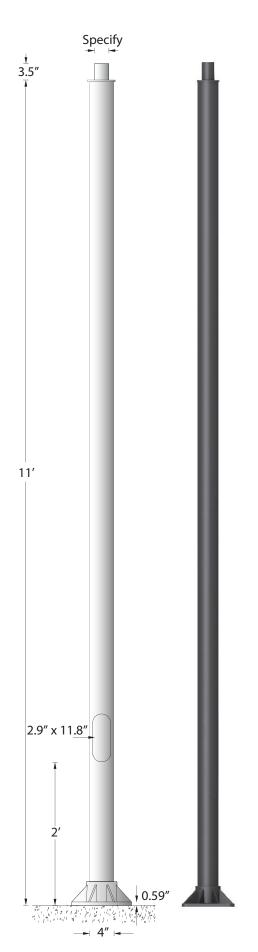
140 mph 150 mph

Special Wind Region

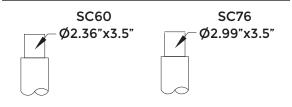
APD-RSA-4018-11'-4.0" DIA .188"

Round Straight Aluminum Pole

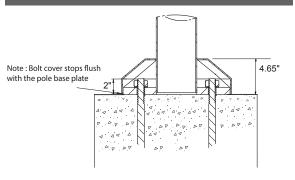




Tenon Post Top



Pole Mount Install Notes



A level concrete base is poured and finished flush. This provides a uniform load displacement pad for the forces created by wind and luminaire weight

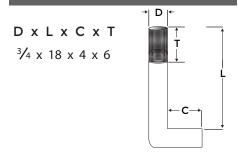
Failing to do this voids pole warranty

Foundation and Design by Others

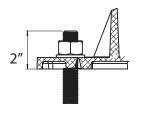
Physical Data

Pole Height: 11'
Pole Diameter: 4"
Thickness: 0.188"
Weight: 29.3 lbs

Anchor Bolt

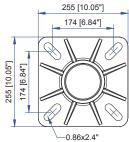


Bolt Projection



Die-Cast Base Cover

Mounting Base



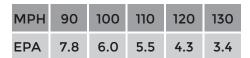
Not to scale template:

Wind Load Map

This drawing is being furnished for reference dimensions only and cannot be used as a template to set anchor bolts. Since it is "not to scale" Ligman accepts no responsibility for its intended use. Refer to site plans and specification before installing any anchor holts

Contact Ligman Lighting USA for bolt template prior to pouring anchor bolts.

_0.86x2.4" Maximum EPA







JET 57 (JE-10573)

Fixture Type S3











Luminaire structure

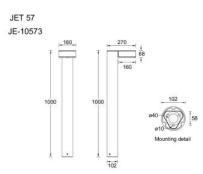
- Die-cast aluminium housing
- Extruded aluminium column
- Pre-treated before powder coating ensuring high corrosion resistance
- Single cable entry
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- Clear toughened glass
- Integral control gear

Product description

Ø102 - 1000 mm - 1 side - Round







Light symbol



Product colour

06 - Bronze (RAL 6014)



Special finishes upon request



Technical information

Lamp	1 COB
Lamp type	COB
Dimming type	DALI, 1-10V, On/Off
EEC	A++
Material	Aluminium
Weight	5.4 kg
Operating temperature	-20 °C to 40 °C

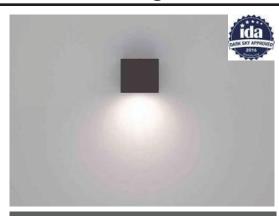
Luminaire	
Power	15 W
Lumen	1105 - 1119 lm
Efficacy	74 - 75 lm/W
CCT / CRI	3000K CRI80, 4000K CRI80
Drive current	350 mA

Optic	VW [74°]
MacAdam Ellipse	3 SDCM
Lifetime L90B10 (hours)	>55,400
Lifetime L80B10 (hours)	>55,400
Lifetime L80B50 (hours)	>55,400

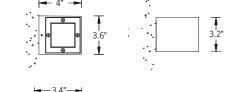
We reserve the right to make technical and design changes.

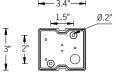
Gino 2 Downlight





5w COB 236 Lumens IP65 • Suitable For Wet Locations IK07 • Impact Resistant Weight 2.2 lbs





Mounting Detail

236 LUMENS 30W 3000k

Construction

Aluminum

Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

B0 - U0 - G0

Finishina

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

<u>Paint</u>

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Hardware

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

<u>Lumen - Maintenance Life</u>

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Façade-mounted building and area lighting range. Sleek, compact and expansive luminaire family with lighting packages and optics to address any need.

A range of small, square and rectangular wall mounted luminaires with options of upward or downward light distributions. Ideally suited to illuminate the wall and surfaces in front of wall and for light accents on vertical surfaces using high efficiency LED's. The Gino is suitable for indoor and outdoor applications and provides a clean, visually appealing solution for small, unobtrusive wall mounted luminaires.

This luminaire is available in 2 different sizes and in combinations of down, up or up/down light distributions. The Gino 1 and Gino 2 have a decorative spike option for added lighting effects. The Gino 1 and 2 mounts over a 3" octagonal junction box, a 4" j-box cover plate is available upon request. Frosted or clear lenses are available.

Additional Options (Consult Factory For Pricing)



SCDT Surface Conduit Decorative Trim



Gino Product Family

Fixture Type S4



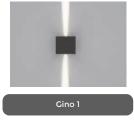
• UGI-31581-2x4w-2x126lm



• UGI-31582-2x2w-2x51lm



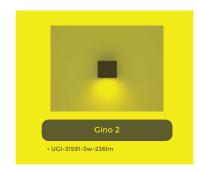
• UGI-31583-2x2w-2x27lm



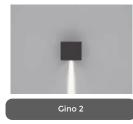
• UGI-31584-2x2w-2x5lm



• UGI-31631-2x6w-2x444lm







• UGI-31593-2w-3lm



• UGI-31621-6w-444lm



• UGI-31601-2x8w-2x281lm



• UGI-31651-2x10w-2x491lm



• UGI-31611-8w-298lm



• UGI-31641-10w-982lm

Fully Enclosed & Gasketed Industrial

Fixture Type S5



VOLTAGE

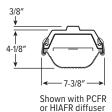
120 120V

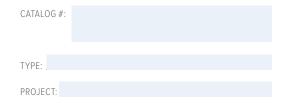
277 277V

UNV 120-277V

347 347V [20]







FEATURES

- Fully gasketed fixture resists dust, bugs, and moisture
- Standard stainless steel latches protect the fixture from corrosion in harsh environments
- Latches ensure a tight seal and provide easy access to electrical components.
- Tamper-resistant latches available
- Closed-cell polyurethane gasket poured and formed in place to ensure tight seal-does not absorb water or support fungal growth
- NSF/ANSI Standard 2-Splash Zone certified
- IP65, IP66, and IP67 certified
- Made Right Here® in the USA

SPECIFICATIONS

- ENCLOSURE Outer housing consists of 5VA (f1) fiberglass, rated for flame and weather resistance.
- INTERNAL HOUSING .050" aluminum.
- LATCHING Stainless steel latches. Injection-molded polycarbonate latches available (not recommended for use in harsh environments, such as a car wash).
- REFLECTOR 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal.
- SHIELDING Frosted, ribbed, impactresistant acrylic.
- ELECTRICAL High quality mid-power LED board. L70 >50,000 hours. -20°C to 40°C maximum ambient operating temperature (restrictions apply, see Performance Data for details), -40°C minimum operating temperature with LA40 option.
- MOUNTING Surface or suspended. Stainless steel ceiling mount brackets included.
- LISTINGS
 - cETLus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry or damp
 - 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
 - cETLus listed as suitable for wet locations when specified with watertight hub, STOW or SOOW cord, or mini-male receptacle
 - NSF/ANSI Standard 2-Splash Zone certified, IP65, IP66, and IP67 certified, and rated for NEMA 4X.
- WARRANTY 5-year limited warranty, see hew.com/warranty



ORDERING EXAMPLE: 96 - 4 - L62/830 - HIAFR - OPTIONS - DRV - UNV

8 80

ORDERING INFO

SERIES LENGTH 4 4' 8 8' [2]

L21 2,100lm **L29** 2,900lm

LUMENS [1]

L40 4,000lm **L62** 6,200lm **L81** 8,100lm L110 11,000lm L80 8.000lm

L130 13,000lm L160 16,000lm L220 22,000lm CCT

30 3000K **35** 3500K **40** 4000K 50 5000K

SHIELDING

HIAFR Frosted, ribbed, impact-resistant Frosted, ribbed, UV stabilized polycarbonate [3] **PCFR**

CONTROL [5]

DIM Dimming driver

DRV Non-dimming driver

DFR Drop, frosted, impact-resistant acrylic DCL Drop, clear, impact-resistant acrylic with frosted ends

OPTIONS [4]

Additional lower lumen packages available. [6] Example: 4,100 nominal lumens = (L___)

96-4-L62/840-HIAFR-(L41).

10-watt emergency battery [7] EM/10W 6-watt emergency, low temperature battery [8] FM/6WC

LA40 -40°C minimum operating temperature WET/1 (1) 1/2" watertight hub, side access [9] WET/2 (2) 1/2" watertight hubs, side access [10] (1) 1/2" watertight hub, back access [11] WTT/1 (2) 1/2" watertight hub, back access [12] WTT/2 Stainless steel chain mounting brackets [13] **SSCMB** Injection-molded polycarbonate latches [14] PCL

Tamper-resistant screws [15]

WMB Stainless steel 45° wall mount bracket [16]

OCCWS HB350W-L3W-High Bay passive infrared 360° lens [18] Factory-installed occupancy and daylight control, 120V–480V. [19] OCCWS FSP-321B-L_-120-480

OCCUPANCY SENSORS [17]

ACCESSORIES

TPTG TOOL Tamper-resistant tool for tri-grove screws. [21]

NOTES

- Lumen output based on 4000 CCT and HIAFR shielding. Actual lumens may vary +/-5%, see page 2 for FIXTURÉ PERFORMANCE DATA. Additional lumen package available, see options. Acrylic diffusers only. Not available with 8' units.
- Stainless steel latches required for applications with harsh chemicals. Cord and receptacle options available. See
- page 3 for CORD OPTIONS. See page 2 for ADDITIONAL CONTROL OPTIONS.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Not available with L110 or L220 lumen packages. 4' or 8' only. Temperature restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
- Not available with L110 or L220 lumen packages. 4' or 8' only. Rated for -20°C to 25°C ambient temperature. Consult factory for availability.
- Factory-installed in end of housing.
 Factory-installed in ends of housing; not
- available with occupancy sensor option.
- 4' only, factory-installed in back of fixture.
 4' only, factory-installed in back of fixture.
- Not recommended for use in harsh environments, such as a car wash. ¹⁵ This option requires a tamper-resistant
- tool see Accessories

- 2 per fixture. See page 3 for
- MOUNTING DETAILS.
 Not available with IP66 or IP67 certification when specified with
- occupancy sensor.

 Rectory-installed; must specify 120 or
- Must specify lens, L2 or L3. See page 4 for OCCUPANCY SENSOR DETAILS. Not available with EM drivers.
- Tamper-resistant tool must be ordered separately. Please specify quantity required per project.



Fixture Type S5

FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)	MAXIMUM TEMPERATURE (°C)		
	LED PACKAGE	DELIVERED LUMENS	WATTAGE	WATTAGE EFFICACT (IIII/W)		EMERGENCY	
2	L21	2201	18	120.5	40	_	
~	L29	3028	25	118.4	40	_	
	L40	4086	30	137.4	40	40	
4	L62	6434	48	134.0	40	30	
4	L81	8121	65	125.0	30	25	
	L110	11075	88	126.2	30	_	
	L80	8018	61	132.8	40	40	
ò	L130	13026	95	138.0	40	30	
ω	L160	16188	123	133.3	30	25	
	L220	22056	166	135.7	30	_	

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25 $^{\circ}\text{C}$ ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 4000K and HIAFR shielding actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

MULTIPLIER TABLES

5000K

	COLOR TEMPERATURE						
	CCT	CONVERSION FACTOR					
	2700K	0.94					
~	3000K	0.96					
80 CRI	3500K	0.97					
Θ	4000K	1.00					
	5000K	1.03					
	2700K	0.77					
90 CRI	3000K	0.79					
	3500K	0.80					
	4000V	0.03					

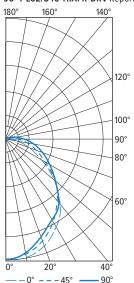
0.86

SHIELDING					
LENS CONVERSION FACTOR					
HIAFR	1.00				
PCFR	0.91				
DFR	1.05				
DCL 1	1.06				

Due to lens being clear, striations in the light distribution will be visible.

PHOTOMETRY

96-4-L62/840-HIAFR-DRV Report #: 20008.0; 08/15/17 | Total Luminaire Output: 6434 | Lumens; 48.3 Watts | Efficacy: 133.1 | m/W | 83.6 CRI; 4041K CCT



	VEDTICAL ANCIE	H0	ZONAL LUMENS		
	VERTICAL ANGLE	0°	45°	90°	ZONAL LUMENS
	0	2318	2318	2318	
	5	2352	2298	2283	220
	15	2259	2169	2120	617
	25	2066	1943	1865	899
	35	1780	1666	1704	1065
NO.	45	1370	1379	1389	1055
5	55	943	1007	1062	901
8	65	546	695	828	691
S	75	231	449	599	457
2	85	38	251	361	252
8	90	15	185	272	
CANDLEPOWER DISTRIBUTION	95	14	150	217	143
를	105	8	84	138	79
S	115	4	39	85	39
	125	0	8	42	14
	135	0	0	9	2
	145	0	0	2	1
	155	0	0	0	0
	165	0	0	0	0
	175	0	0	0	0
	180	0	0	0	

	ZONE	LUMENS	% FIXTURE		
≿	0 - 30	1736	27		
MA	0 - 40	2801	44		
LUMEN SUMMARY	0 - 60	4757	74		
NS	0 - 90	6156	96		
ME	90 - 120	262	4		
=	90 - 150	275	4		
	90 - 180	278	4		
	0 - 180	6434	100		

ADDITIONAL CONTROL OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
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, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V or 277V only)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive. 1% dimming driver for DALI controls

Multiple Layers of Light



Fixture Type L6

Catalog Number:







General Illumination Round Downlight



Feature Set

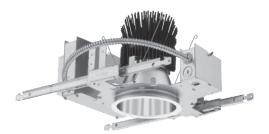
OVERVIEW

COMPLIMENTARY PRODUCTS

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60.000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- · Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product



250 - 8,000 lumens



10,000 - 17,500 lumens

Distribution











Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	8000	10,000	12,000	15,000	17,500	
Delivered Lumens	297	519	776	994	1471	2006	2537	3077	3542	4027	4533	5256	6371	8247	10637	12332	15776	17801	
Wattage	3.4	6.2	8.2	9.6	14.7	19.7	24.7	29.5	33.8	39.0	47.3	48.7	57.6	74.9	97.1	115.0	150.9	175.3	
Lumens per Watt	87.4	83.7	94.6	103.5	100.1	101.8	102.7	104.3	104.8	103.3	95.8	107.9	110.6	110.1	109.5	107.2	104.5	101.5	

wide 1.2 S:MH

Coordinated Apertures I Multiple Layers of Light





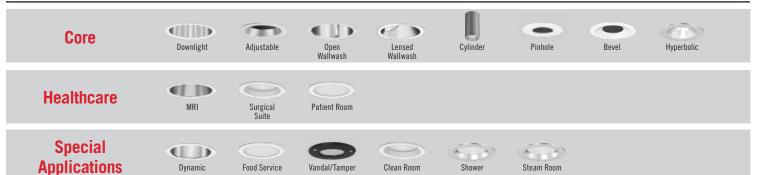
General Illumination Layer I EVO







EVO + Incito — Multiple Layers of Light









Luminaire Type: Catalog Number:

EXAMPLE: EV06 35/150 AR MWD LSS MVOLT EZ1

Series	Color	Temperature	Non	ninal Lumen Valu	es		Reflector	& Flange Color	Trim Sty	rle	Distril	oution
EV06	27/ 30/ <mark>35/</mark> 40/ 50/	2700 K 3000 K 3500 K 4000 K 5000 K	02 05 07 10 15 20 25 30 35	250 lumens 500 lumens 750 lumens 1000 lumens 1500 lumens 2000 lumens 2500 lumens 3000 lumens 3500 lumens	40 45 50 60 80 100 120 150 175	4000 lumens 4500 lumens 5000 lumens 6000 lumens 8000 lumens 10000 lumens 12000 lumens 15000 lumens	AR PR WTR GR WR ¹ BR ¹ WRAMF ¹	Clear Pewter Wheat Gold White Black White Anti-microbial	(blank) FL	Self-flanged Flangeless	VND ND MD MWD WD	Very Narrow (0.5 s/mh) Narrow (0.7 s/mh) Medium (0.9 s/mh) Medium Wide (1.0 s/mh) Wide (1.2 s/mh)
Finish	Finish Voltage Driver ⁴											

Finis	h	Voltage	Driver ⁴			
LSS LD LS	Semi-specular Matte-diffuse Specular	MV0LT 120 277 347 ^{2,3}	GZ10 GZ1 EZ10 EZ1 EZB EDAB ⁵ EDXB ⁵	0-10V driver dims to 10% 0-10V driver dims to 1% eldoLED 0-10V ECOdrive. Linear dimming to 10% min. eldoLED 0-10V ECOdrive. Linear dimming to 1% min. eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. eldoLED SOLOdrive DALI. Logarithmic dimming to <1%. eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to DMXR Manual. Minimum 1000 lumens/Maximum 15000 lumens.	COS25	Lutron® Hi-Lume® 2-wire forward-phase driver. Minimum dimming level 1%, 120V only. Minimum 1000 lumens/Maximum 4000 lumens. Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Max: 4000LM.

Control Interfa	ce	Options								
NLT ⁶	nLight® dimming pack controls	SF	Single fuse. Specify 120V or 277V.	N80 ¹⁰	nLight® Lumen Compensation					
NLTER ^{2,6,9}	nLight® dimming pack controls emergency circuit	TRW ⁷ TRBL ⁸	White painted flange Black painted flange	BGTD	Bodine generator transfer device. Specify 120V or 277V.					
NLTAIR213	nLight® AIR enabled	EL	Emergency battery pack, 10W, with integral test switch	90CRI	High CRI (90+)					
NLTAIRER2 ^{2,9,13}	nLight® AIR enabled emergency	ELR	Emergency battery pack, 10W, with self-diagnostics, with remote test switch	CP ¹¹	Chicago Plenum. Specify 120V or 277V for 5000lm and above.					
EXA1	XPoint Wireless, eldoLED driver. Linear dimming to 1%	ELSD ELRSD	Emergency battery pack, 10W, with self-diagnostics, integral test switch Emergency battery pack, 10W, with self-diagnostics, remote test switch	HAO12	HAO High Ambient Option (40°C)					
EXAB	XPoint Wireless, eldoLED driver. Logarithmic dimming to dark	E10WCP	Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	RRL_	RELOC®-ready luminaire connectors enable a simple and consistent factory installed					
		E10WCPR	Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch		option across all ABL Iuminaire brands. Refer to RRL for complete nomenclature					

ACCESSORIES – order as separate catalog numbers (shipped separately)

Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D. Refer to TECH-190.

Ceiling thickness adapter for 10,000LM and above (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height. CTA4-8 YKHL CTA4-8 YK Ceiling thickness adapter for 8,000LM and below (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height. **GVRT** Vandal-resistant trim accessory. Refer to TECH-200.

ISD BC 0-10V wallbox dimmer. Refer to ISD-BC

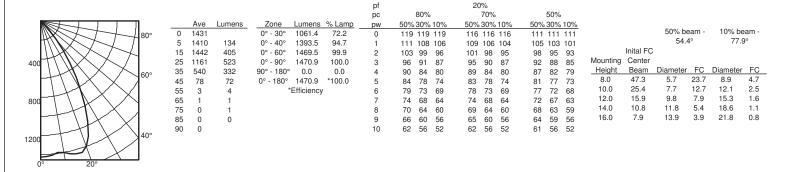
ORDERING NOTES

- Not available with finishes.
- 2. Not available with emergency battery pack options.
- 3. Supplied with factory installed step down transformer.
- 4. Refer to TECH-240 for compatible dimmers.
- 5. Not available with nLight® and XPoint options.
- Specify voltage. 6.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
- ER for use with generator supply power. Will require an emergency hot feed and normal hot
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- 11. 12,000LM max with EL or nLight® options. 5,000LM max with Lutron drivers combined with EL. Not available with ELR, HAO, EXA1, or EXAB options.
- Only available 5000LM 15,000LM with eldoLED drivers.
- Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.

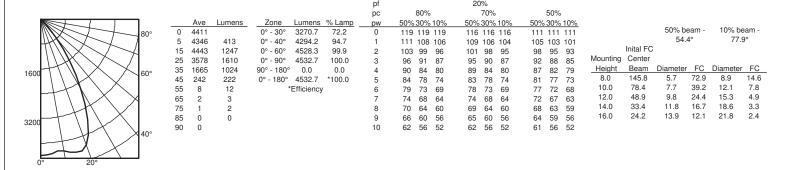




EV06 35/15 AR MWD LS INPUT WATTS: 14.7, DELIVERED LUMENS: 1471LM, LPW= 100, 1.03 S/MH, TEST NO. LTL27783P1505



EV06 35/45 AR MWD LS INPUT WATTS: 47.3, DELIVERED LUMENS: 4532.7LM, LPW= 95.8, 1.03 S/MH, TEST NO. LTL27783P1649



EV06 35/175 AR MWD LS INPUT WATTS: 175.3, DELIVERED LUMENS: 17801LM, LPW=101.5, 1.06 S/MH, TEST NO. ISF 34035P268

