GARY MATZNER PARK-PINECREST

Project number PJ00096264
Quote number SQ231110-01

Team

CIVIL ENGINEER	KEITH & ASSOCIATES CIVIL ENGINEERING (POMPANO BCH)
LANDSCAPE ARCHITECT	MKSK
ARCHITECT	WANNEMACHER JENSEN ARCHITECTS
ELECTRICAL ENGINEER	SGM ENGINEERING (MIAMI)

Prepared By

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Datasheets

New Section

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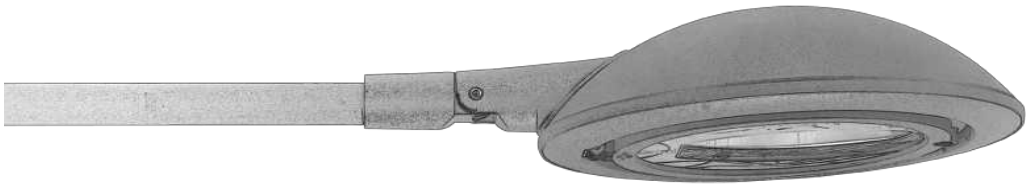
Manufacturer : AEC ILLUMINATION
Model Number : ARMO MINI-STE-M-7030.7-1M-1V-M2B-F-FINISH
Notes : CCT TO BE DETERMINED

Type :
LT-1



ARMO MINI

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : AEC ILLUMINATION
Model Number : ARMO MINI-STE-M-7030.7-1M-1V-M2B-F-FINISH
Notes : CCT TO BE DETERMINED

Type : LT-1

MODEL: ARMO MINI

DOC NO:

DATE: 05-2020

KEY FEATURES:

- Dust Protection - IP66
- IES Classification Type II, IV
- Optical System - Removable
- Controls - Fix / 0-10 / DALI
- Voltage 110V - 277V (347V and 480V optional)
- SPD - 10kV - 10kA
- CRI - >70
- CCT - 3000K / 4000K
- Switch Off Connector
- Operating Temp: -40°F (-40°C) to 95°F (35°C)
- Lifetime - L90B10 > 100 000 h

1. MODEL	2. OPTICS	3. CCT	4. CURRENT	5. MODULES	6. VOLTAGE	7. MOUNT
ARMO M						

1. MODEL
ARMO MINI

2. OPTICAL SYSTEM
STW (IES TYPE II)
STE-S (IES TYPE II)
STE-M (IES TYPE II)
STU-S (IES TYPE II)
STU-M (IES TYPE II)
S05 (IES TYPE IV)

3. CCT
3 - 3000K
4 - 4000K

4. CURRENT
.5 - 525 mA
.7 - 700 mA
.xxx - custom
7030.7

5. MODULES
1M - 1 Module
2M - 2 Modules

6. VOLTAGE
1V - 110V - 277V
3V - 347V
4V - 480V

7. MOUNTING
M2B - 2 3/8" OD

8. CONTROLS	9. OPTIONS	10. FINISH

8. CONTROLS
F - Fixed power not dimmable.
DA - Automatic dimming.
DAC - Custom DA profile.
FLC - Constant light flux.
DALI- Digital dimming interface DALI.
D010 - 0V-10V Dimming.

9. OPTIONS
DPG - Prismatic Glass
HSS - House Side Shield
BRD - Bird spike

10. COLOR
C.01 - Graphite Gray
C.02 - Sanity Black
C.03 - Metallic Silver
C.2B - Satiny Gray
C.30 - Steel Gray
C.UW - UW Brown

CO.RAL.... - ADD NUMBER
CUS - CUSTOM

PROJECT NAME: _____

☐ APPROVED
☐ APPROVED AS NOTED
☐ REJECTED
☐ APPROVED BY:

REMARKS:

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : AEC ILLUMINATION
Model Number : ARMO MINI-STE-M-7030.7-1M-1V-M2B-F-FINISH
Notes : CCT TO BE DETERMINED

Type : LT-1

MODEL: ARMO MINI | DOC NO: | DATE: 05-2020

3000K

LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX[1] (Tq=25°C, 3000K, lm)	RATED LUMINAIRE POWER[1] (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX[2] (Tj=85°C, 3000K, lm)	RATED LED POWER[2] (Tj=85°C, W)
ARMO MINI 0F3 (**OPTICS**) 3.5-1M	525	S05 STU-M STU-S	1720	16	106	1990	13
ARMO MINI 0F3 (**OPTICS**) 3.5-2M			3360	30.5	110	3980	26
ARMO MINI 0F2H1 (**OPTICS**) 3.7-1M	700		2210	22	102	2520	18
ARMO MINI 0F2H1 (**OPTICS**) 3.7-2M			4300	40	107	5040	36
ARMO MINI 0F3 (**OPTICS**) 3.5-1M	525	STE-M STE-S STW	2380	21.5	110	2701	17
ARMO MINI 0F3 (**OPTICS**) 3.5-2M			4700	39	120	5402	34
ARMO MINI 0F3 (**OPTICS**) 3.7-1M	700		2980	28	106	3420	24
ARMO MINI 0F3 (**OPTICS**) 3.7-2M			5950	52	114	6840	48

4000K

LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX[1] (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER[1] (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX[2] (Tj=85°C, 4000K, lm)	RATED LED POWER[2] (Tj=85°C, W)
ARMO MINI 0F2H1 (**OPTICS**) 4.5-1M	525	S05 STU-M STU-S	1840	16	115	2184	13
ARMO MINI 0F2H1 (**OPTICS**) 4.5-2M			3620	30.5	118	4368	26
ARMO MINI 0F2H1 (**OPTICS**) 4.7-1M	700		2370	22	110	2765	18
ARMO MINI 0F2H1 (**OPTICS**) 4.7-2M			4630	40	115	5530	36
ARMO MINI 0F3 (**OPTICS**) 4.5-1M	525	STE-M STE-S STW	2560	21.5	119	2950	17
ARMO MINI 0F3 (**OPTICS**) 4.5-2M			5060	39	129	5900	34
ARMO MINI 0F3 (**OPTICS**) 4.7-1M	700		3200	28	114	3735	24
ARMO MINI 0F3 (**OPTICS**) 4.7-2M			6400	52	123	7470	48

The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance.
In particular, the luminaire efficiency (expressed in lm/W) must be calculated as the ratio between the output luminous avvflux of the luminaire and the power absorbed by the input powersupply unit.
For the sake of completeness the tables also show the data of the nominal flux and power of the used LED.

PROJECT NAME: _____

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Note:
1:Rated data obtained in laboratory
2:Rated data extrapolated from LED manufacturer datasheet.
The characteristics of the product listed in this product sheet are subjected to change without notice.
They will have to be confirmed in case of order.
Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%.

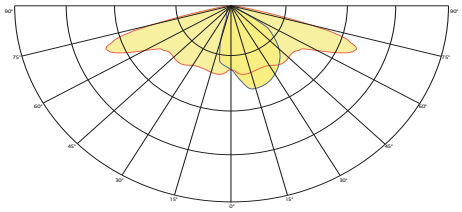
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : AEC ILLUMINATION
Model Number : ARMO MINI-STE-M-7030.7-1M-1V-M2B-F-FINISH
Notes : CCT TO BE DETERMINED

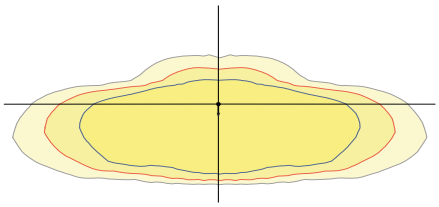
Type : LT-1

MODEL: ARMO MINI | DOC NO: | DATE: 05-2020

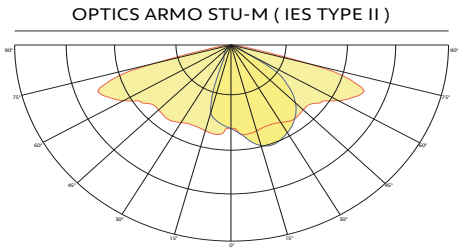
OPTICAL SYSTEMS

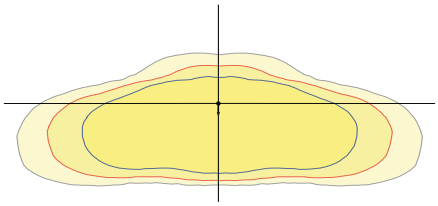
OPTICS ARMO STU-S (IES TYPE II)



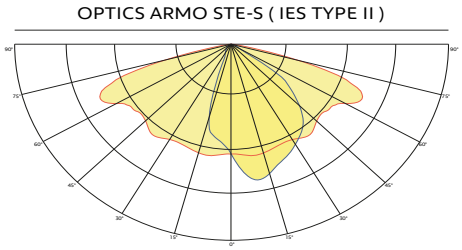


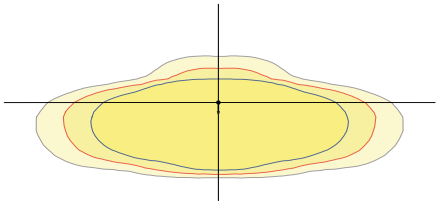
OPTICS ARMO STU-M (IES TYPE II)



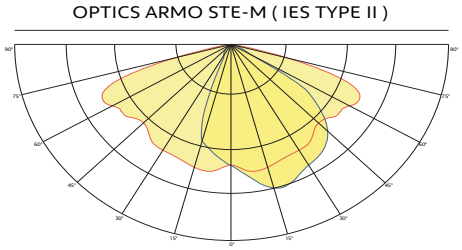


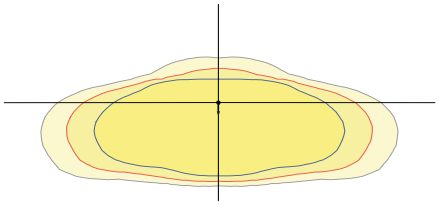
OPTICS ARMO STE-S (IES TYPE II)





OPTICS ARMO STE-M (IES TYPE II)





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REMARKS:

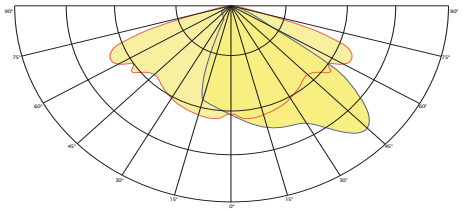
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : AEC ILLUMINATION
Model Number : ARMO MINI-STE-M-7030.7-1M-1V-M2B-F-FINISH
Notes : CCT TO BE DETERMINED

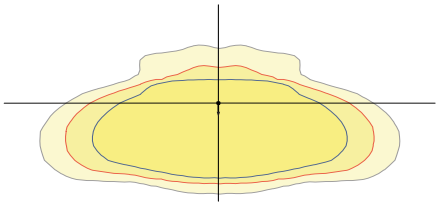
Type : LT-1

MODEL: ARMO MINI | DOC NO: | DATE: 05-2020

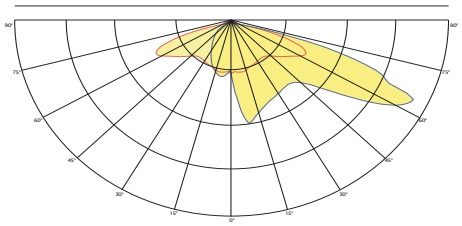
OPTICAL SYSTEMS

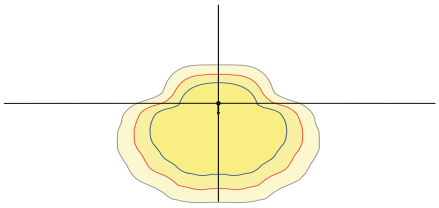
OPTICS ARMO STW (IES TYPE II)





OPTICS ARMO S05 (IES TYPE IV)





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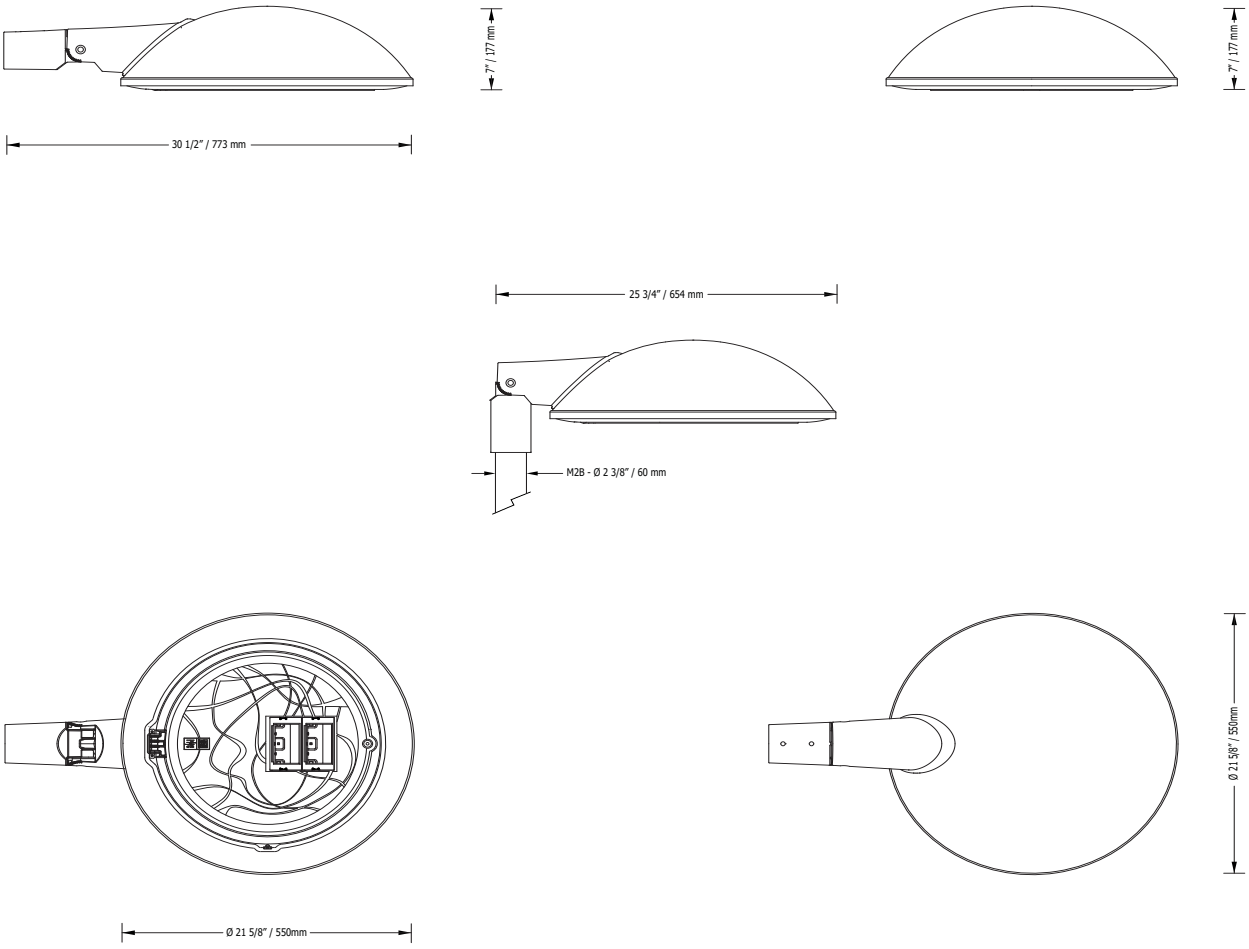
REMARKS:

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : AEC ILLUMINATION
Model Number : ARMO MINI-STE-M-7030.7-1M-1V-M2B-F-FINISH
Notes : CCT TO BE DETERMINED

Type : LT-1

MODEL: ARMO MINI | DOC NO: | DATE: 05-2020

DRAWING - MECHANICAL PROPERTIES



Applications: Street and urban lighting.

Tilt angle: 0° - 90°

Weight: 26.46 Lbs / 12 kg

EPA: Side: 0.86 ft² (0.08m²)
Top: 2.69 ft² (0.25m²)
(Cross Section Surface)
Use Drag coefficient factor - 0.5

Mounting: M2B - 2 3/8" x 4" L (60 mm x 100 mm L)

Power Factor: >0.9 (full load)

Power cable: 12GA

Connector-IP68: Cable Dia. 0.27"-0.39" (7mm-10mm)

Optical unit lifetime (Ta: 77°F/25°C)
525mA: L90B10 ≥ 100 000 h (Including critical failures) L90 > 100 000 h, TM-21
700mA: L90B10 ≥ 100 000 h (Including critical failures) L90 > 100 000 h, TM-21

PROJECT NAME: _____

- ☐ APPROVED
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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMEC
Model Number : ATR74-C1-20-FINISH
Notes : FINISH TO BE DETERMINED

Type : LT-1 POLE

LUMEC by signify

Outdoor

Poles and Brackets

ATRC1 / ATRC2
Aluminum Tapered Pole

Made from tapered round aluminum shaft welded top and bottom to a cast-aluminum anchor plate. After tapering and welding, the entire shaft assembly is heat treated to T6 temper.

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

Ordering guide

example: ATR64C1-16-BE2TX

Pole Family	Curve Code (Pole Reach)	Nominal Height	Option	Finish
ATR64 6" to 4"	C1	16'	**MPL** Mid-pole luminaire	**BE2TX** Midnight Blue Textured
		18'		**BE6TX** Ocean Blue Textured
	C2	16'		**BE8TX** Royal Blue Textured
		18'		**BG2TX** Sandstone Gold Textured
ATR74 7" to 4"	C1	20'		**BKTX** Black Textured
		22'		**BRTX** Bronze Textured
	C2	24'		**GN4TX** Blue Green Textured
		26'		**GN6TX** Forest Green Textured
	C1	20'		**GN8TX** Dark Forest Green Textured
		22'		**GNTX** Green Textured
	C2	24'		**GY3TX** Medium Grey Textured
		26'		**RD2TX** Burgundy Textured
ATR85 8" to 5"	C1	28'		**RD4TX** Scarlet Textured
		30'		**WHTX** White Textured
	C2	28'		**GR** Gray Sandtex
		30'		**NP** Natural Alum.
				TG Hammer-tone
				TS Hammer-tone Silver

Note: The recommended method for calculating EPA (Effective Projected Area) is in accordance with AASHTO 2001 standards: for three seconds, the pole is tested in wind gusts equivalent to the strongest winds on record over the past 50 years, and with a 50 pound load (22.7 kg) placed at 1 foot (305 mm) above its center.

Important: Do not obstruct space between anchor plate and concrete base.

Outdoor Poles and Brackets

ATRC1 / ATRC2 – Aluminum Tapered Pole

Pole Data

Pole Family	Catalog Number	Nominal Height (ft)	Nominal Height (m)	Wall Thickness (in)	Wall Thickness (mm)	Weight (lbs)	Weight (kg)	Pole Reach (in)	Pole Reach (mm)	Bracket Height (ft)	Bracket Height (mm)	MPL (m)	MPL (in)	Opening (in)	Opening (mm)	Anchor Bolts (in)	Anchor Bolts (mm)
ATR64C	ATR64C1	16	4.9	0.156	4	60	27	21	540	12	3.7			3x5	76x127	1-36	25-914
ATR64C	ATR64C2	16	4.9	0.156	4	60	27	37	946	12	3.7			3x5	76x127	1-36	25-914
ATR64C	ATR64C1	18	5.5	0.156	4	64	29	21	537	14	4.3			3x5	76x127	1-36	25-914
ATR64C	ATR64C2	18	5.5	0.156	4	64	29	44	1118	14	4.3			3x5	76x127	1-36	25-914
ATR74C	ATR74C1	20	6.1	0.188	4.8	89	40	25.5	648	16	4.9			4x7	102x178	1-36	25-914
ATR74C	ATR74C2	20	6.1	0.188	4.8	89	40	51.5	1311	16	4.9			4x7	102x178	1-36	25-914
ATR74C	ATR74C1	22	6.7	0.188	4.8	97	44	28	718	18	5.5	12	3.7	4x7	102x178	1-36	25-914
ATR74C	ATR74C2	22	6.7	0.188	4.8	97	44	61	1549	18	5.5	12	3.7	4x7	102x178	1-36	25-914
ATR74C	ATR74C1	24	7.3	0.188	4.8	105	48	28	718	19	5.8	12	3.7	4x7	102x178	1-36	25-914
ATR74C	ATR74C2	24	7.3	0.188	4.8	105	48	82.5	2099	19	5.8	12	3.7	4x7	102x178	1-36	25-914
ATR74C	ATR74C1	26	7.9	0.188	4.8	113	51	31.5	797	21	6.4	12-14	3.7-4.3	4x7	102x178	1-36	25-914
ATR74C	ATR74C2	26	7.9	0.188	4.8	113	51	94	2388	21	6.4	12-14	3.7-4.3	4x7	102x178	1-36	25-914
ATR85C	ATR85C1	28	8.5	0.25	6.4	170	77	35	892	23	7	12-16	3.7-4.9	4x8	102x203	1-36	25-914
ATR85C	ATR85C2	28	8.5	0.25	6.4	170	77	94	2388	23	7	12-16	3.7-4.9	4x8	102x203	1-36	25-914
ATR85C	ATR85C1	30	9.1	0.25	6.4	202	92	39	997	25	7.6	12-18	3.7-5.5	4x8	102x203	1-36	25-914
ATR85C	ATR85C2	30	9.1	0.25	6.4	202	92	102	2591	25	7.6	12-18	3.7-5.5	4x8	102x203	1-36	25-914

Specifications

Bolt cover

Pole ATR64C1-C2

Made from tapered 6" to 4" (152 by 102 mm) round aluminum shaft welded top and bottom to a cast-aluminum anchor plate. After tapering and welding, the entire shaft assembly is heat-treated to T6 temper.

Pole ATR74C1-C2

Made from tapered 7" to 4" (178 by 102 mm) round aluminum shaft welded top and bottom to a cast-aluminum anchor plate. After tapering and welding, the entire shaft assembly is heat-treated to T6 temper.

Pole ATR85C1-C2

Made from tapered 8" to 5" (203 by 127 mm) round aluminum shaft welded top and bottom to a cast-aluminum anchor plate. After tapering and welding, the entire shaft assembly is heat-treated to T6 temper.

Bolt Cover

Made of spun aluminum, press fit over the nuts of the bolts.

Finish

Color to be in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

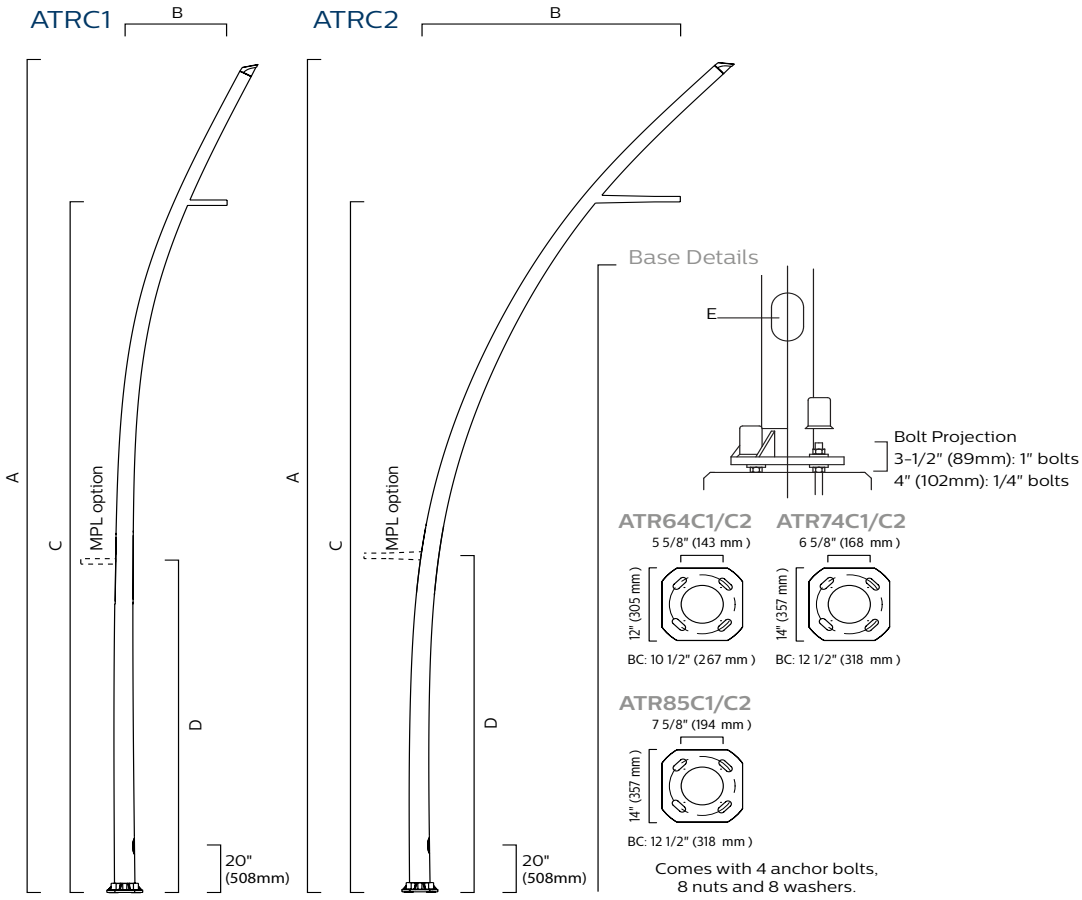
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMEC
Model Number : ATR74-C1-20-FINISH
Notes : FINISH TO BE DETERMINED

Type :
LT-1
POLE

Outdoor Poles and Brackets

ATRC1 / ATRC2 – Aluminum Tapered Pole

Dimensions



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Markham, ON, Canada L6C 2S3
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www.lumec.com

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMCA
Model Number : CP0472-SLF-48LED07-107W-VOLT-L4-30K-FINISH
Notes : FINISH TO BE DETERMINED

Type : LT-2

CONCEPT FAMILY CP0401

Date	City / Location	Project name

Type	QTY

Weight : 27 lb - 12.2 kg

- 3000K (30K) and 4000K (40K).
- Wattage up to 120W.
- Light distribution available in type I, II, III, IV and V.
- Tool-less access.
- IP66.
- UL compliant.
- Dark sky compliant with flat lens (#4).

Ordering example: CP0401 SLF 36LED07 80W 120V L3FL 40K HSS BK

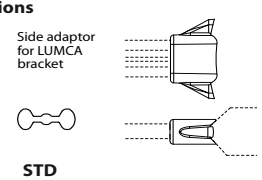
Luminaire	Adaptor	Source	Voltage	Dist. type	CCT	Color
----	----	----	----	----	----	----

Options

☐ **BTP** - Button Type Photocell	☐ **HSS** - House Side Shield	☐ **SGP10** - 10kV Surge protection (for low voltage 120-277V)	☐ **SGP20** - 20kV Surge protection (for low voltage 120-277V)
☐ **TRP** - 7 pins twist lock photocell receptacle (ANSI C136.41) C/W photocell	☐ **TRP7** - 7 pins twist lock photocell receptacle (ANSI C136.41) C/W shorting cap	☐ **RCD** - Internal DimOnOff light control system C/W antenna (software not included)	☐ **PRG** - Programmable Driver (Consult Factory for options)

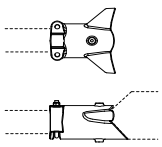
Adaptors options

Side adaptor for LUMCA bracket



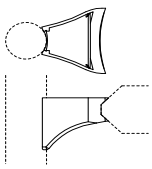
STD Adaptor

Side adaptor for Ø2 3/8" (60mm) horizontal arms



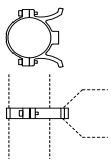
SLF Adaptor

Side adaptor for Ø4" [Ø102mm], Ø5" [Ø127mm] or Elliptic pole



BEL Adaptor

Side clamp adaptor for Ø4" [Ø102mm] pole



ELITE Adaptor

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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMCA
Model Number : CP0472-SLF-48LED07-107W-VOLT-L4-30K-FINISH
Notes : FINISH TO BE DETERMINED

Type : LT-2

CONCEPT FAMILY

Technical informations

Sources

Type I-II-III-V

530mA	700mA
– 18LED05 30W	– 18LED07 40W
– 36LED05 60W	– 36LED07 80W
– 54LED05 90W	– 54LED07 120W
– 72LED05 120W	

Type IV*

530mA	700mA
– 12LED05 20W	– 12LED07 27W
– 24LED05 40W	– 24LED07 54W
– 36LED05 60W	– 36LED07 80W
– 48LED05 80W	– 48LED07 107W

CCT

- 30K (3000K)
- 40K (4000K)

For other CCT, consult factory

Voltages

– 120	– 347
– 208	– 480
– 240	
– 277	

Distributions

Type I – L1

Type II – L2B

Type III – L3

L3FL

Type IV* – L4

Type V – L5S

Color Chart

IES files

CONSTRUCTION

One piece cast aluminium arm adaptor welded on the side of the luminaire housing and sturdily fastened to a mounting arm by the mean of four (4) 3/8-16 UNC stainless steel set screws. One piece extruded aluminium. Heavy gauge spun aluminium hinged cover. Extruded aluminium lens frame containing the optical system. A silicon gasket ensure that the luminaire housing is protected from rain, insects and dust in accordance with international standard IP65. All cast aluminium pieces are in alloy 356, free of any porosity or foreign material. The minimum wall thickness of all castings is 0.188" [5mm]. Extruded aluminium parts are in alloy 6063-T4.

OPTICAL SYSTEM

The optical system consists of a flat, tempered glass lens, an aluminium heatsink dissipater and high intensity white light emitting diodes (LEDs) divided in 1 to 4 light modules. The optical system is hermetically sealed to meet the international standard IP66, to protect it against lumen depreciation due to dust or insect infiltrations, preserving an optimal light output over the years and eliminating periodic cleaning of the lens.

Lens Type details

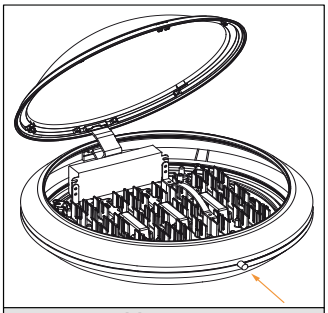
#4 : Flat lens, tempered glass.

DRIVER

Constant current, -40°C [-40°F] to 80°C [176°F], PF 0.99, 0-10v, 120V to 277V / 347V to 480V.

Tool-less access

All hardware is in stainless steel



Tool-less access

FINISH

Powder coating minimum thickness 100 microns, ASTM D2247 5000 hours salt spray test. All metallic parts are pre-treated using an environmentally friendly organic phosphating technology (PLAFORIZATION) before a polyester powder coating is electrostatically applied. The finish is of 100 microns minimal thickness and meets the ASTM B117 regulation related to salt spray and the ASTM D2247 regulation related to the resistance of the finishes exposed to a 100% relative humidity. RAL and Custom colour matches available.

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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMCA
Model Number : CP0472-SLF-48LED07-107W-VOLT-L4-30K-FINISH
Notes : FINISH TO BE DETERMINED

Type : LT-2

CONCEPT FAMILY Codification

CP Ø21" (533mm)
CPG Ø27" (686mm)

CP(G) X X X X X

PENDANT FITTER

- **L** = Pendant Concept
- **F** = Pendant Concept
- **M** = Pendant Concept
- ***R** = Pendant Concept
  *Only with #62-65-67 hood

CAGE / GUARD

Pendant: **4** **6**
Post-top: **2** **3** **6**
Post-top (Yoke): **7** **8** **9**
NO CAGE: **0**

LENS

1 **2** **6** Flat lens **4**

HOOD STYLE (examples)

01 **04** **05** **06** **12** **15** **23**
and many more

EXAMPLES

CP0401 **CPL**0206 **CPL**6101 **CP**6119 **CP**7215 **CPL**4608

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Lumca LIGHTING LIFE
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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMCA
Model Number : LF08-25-WB18-FINISH
Notes : FINISH TO BE DETERMINED

Type : LT-2 POLE

RAIL POLE FAMILY

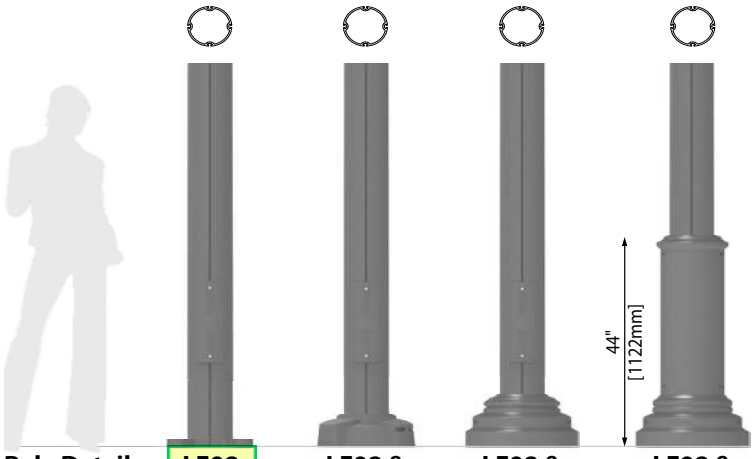
LF08: Ø8" rail pole

Technical informations

Date	City / Location	Project name

Type		QTY	

Aluminium rail poles c/w two-piece base covers.



Pole Details	LF08	LF08 & WB18-8	LF08 & WB25-8B	LF08 & WB25-8

Max height: **34' [10.4m]** (consult factory for 35' and more)

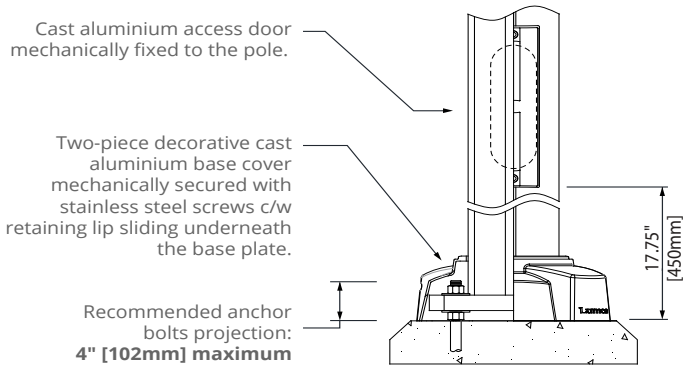
DESCRIPTION

The rail system allows adjustable height for multiple accessories. It eliminates primitive straps that can damage the surfaces and restores the aesthetic appearance of a decorative urban pole. Using standard hardware, this unique versatile system has been design to install accessories quickly and securely.

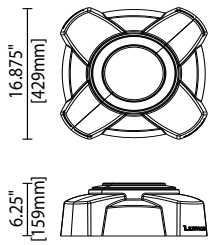
CONSTRUCTION

- Cast aluminium: 356.1
- Extruded aluminium: 6061-T6 alloy.

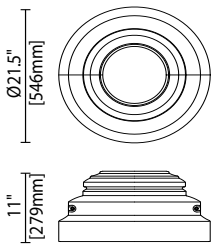
- Ø8" [203mm] extruded aluminium tube.
- Wall thickness: 0.3" [7.6mm]
- Access door: 15.75" [400mm] × 4.75" [121mm] sealed cast aluminium access door with anti theft screws.
- Anchor base plate welded inside and outside the perimeter of the tube.
- Two-piece (WB18 & WB25-B) or four-pieces (WB25) cast aluminium base cover (optional) held captive by the anchor base plate.
- Aluminum ground lug.
- Stainless steel hardware.
- All metallic parts are pretreated using an environmentally friendly organic phosphating technology (PLAFORIZATION) before a polyester powder coating is electrostatically applied.
- Four (4) galvanized steel **1-8×30"** anchor bolts with eight (8) washers and nuts (9.95 lb [4.52 kg] per bolt).



WB18
Base cover



WB25-B
Base cover



Ordering example: LF08-20 WB18-8 GFR8-ICR BK

Pole	Height	Base Cover	Color	Options	Anchor Bolts
LF08	----	----	----	----	☐ Supplied by LUMCA
				----	☐ Supplied by others
				----	☐ Existing

Bolt circle Ø
11" [280mm] to **15.5" [394mm]**
(Ø1" Bolt only)

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Click on ⓘ **for more information**

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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMCA
Model Number : LF08-25-WB18-FINISH
Notes : FINISH TO BE DETERMINED

Type :
LT-2
POLE

RAIL POLE FAMILY

LF08: Ø8" rail pole

EPA chart

LF08 round aluminium pole

	HEIGHT		WALL		WEIGHT		MAX EPA (ft²)* as per AASHTO LRFDLTS-1 Wind (mph)										
catalog #	ft	m	in	mm	lbs	kg	70	80	90	100	110	120	130	140	150	160	170
LF08-16	16	4.88	0.3	7.6	161	73	87.36	73.95	73.96	73.95	67.57	57.04	48.56	41.76	36.23	31.66	27.86
LF08-18	18	5.49	0.3	7.6	181	82	66.28	56.06	56.06	56.06	56.06	48.54	41.26	35.42	30.66	26.73	23.46
LF08-20	20	6.10	0.3	7.6	202	91	51.46	43.46	43.46	43.46	43.46	41.86	35.49	30.39	26.24	22.81	19.95
LF08-22	22	6.71	0.3	7.6	222	101	40.69	34.26	34.26	34.26	34.26	34.26	30.79	26.30	22.63	19.61	17.08
LF08-24	24	7.32	0.3	7.6	242	110	32.47	27.32	27.32	27.32	27.32	27.32	26.90	22.89	19.63	16.93	14.67
LF08-26	26	7.92	0.3	7.6	262	119	26.15	21.94	21.94	21.94	21.94	21.94	21.94	20.00	17.07	14.65	12.62
LF08-28	28	8.53	0.3	7.6	282	128	21.15	17.68	17.68	17.68	17.68	17.68	17.68	17.51	14.86	12.67	10.84
LF08-30	30	9.14	0.3	7.6	302	137	17.10	14.24	14.24	14.24	14.24	14.24	14.24	14.24	12.93	10.93	9.26
LF08-32	32	9.75	0.3	7.6	323	146	13.78	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.21	9.39	7.87
LF08-34	34	10.36	0.3	7.6	343	155	11.01	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	8.01	6.61

CHART VALUES REPRESENTING MINIMUM BETWEEN SERVICEABILITY & ULTIMATE
MAX EPA computed at top of pole (HEIGHT) w/r to ground level at base.
*** Including a gust effect factor of 1.14 as per LRFDLTS-1 art. 3.8.6**
NOTE: This EPA chart is for reference only. The maximum EPA may vary depending on the positioning of special equipment required. Please consult factory for evaluation.

DPV
Vibration damper

Included with 25' and over poles (installed at 55% of the pole height).

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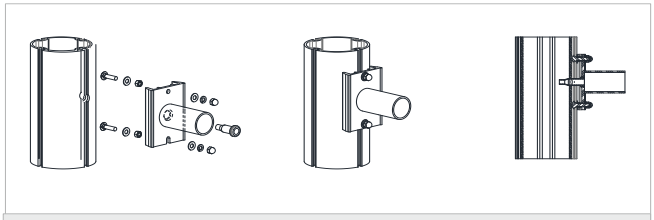
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMCA
Model Number : LF08-25-WB18-FINISH
Notes : FINISH TO BE DETERMINED

Type :
LT-2 POLE

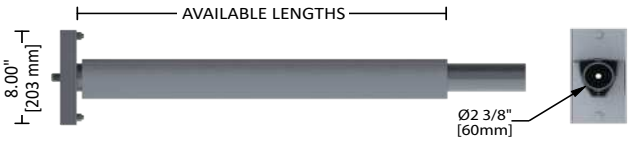
RAIL POLE FAMILY

LF08: Ø8" rail pole

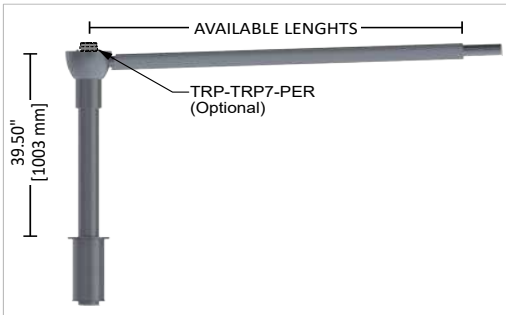
Mounting arms



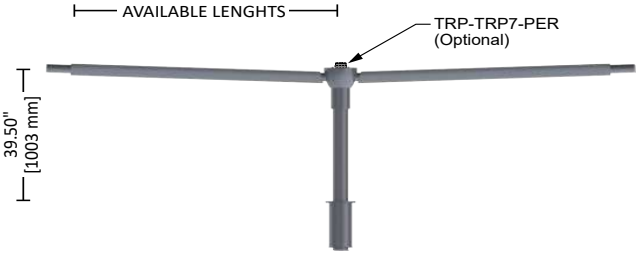
RAIL SYSTEM DETAILS



LF-CF550B
Mid pole configuration
Available lengths: 0.3M, 0.5M, 0.72M

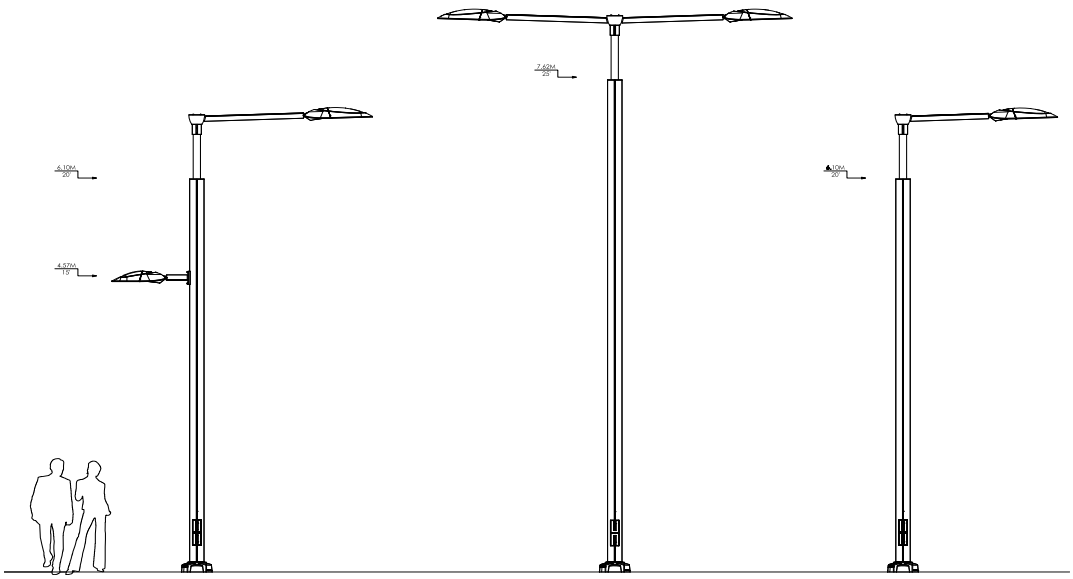


M1-CF550A
Single Configuration
Available lengths: 0.72M, 1.5M, 1.8M, 2.3M, 3.0M



M2-CF550A
Twin Configuration
Available lengths: 0.72M, 1.5M, 1.8M, 2.3M, 3.0M

See website for other available mounting arms



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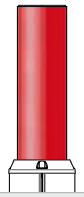
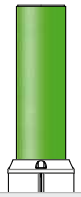
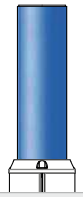
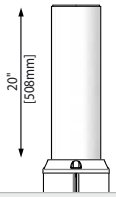
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : LUMCA
Model Number : LF08-25-WB18-FINISH
Notes : FINISH TO BE DETERMINED

Type : LT-2 POLE

RAIL POLE FAMILY

Options & Accessories

- Opalin white acrylic lens
- Ø4" [102mm]

MK8-4x12R
MK8-4x20R
LED accent marker

MK8-4x12G
MK8-4x20G

MK8-4x12B
MK8-4x20B

MK8-4x12W
MK8-4x20W

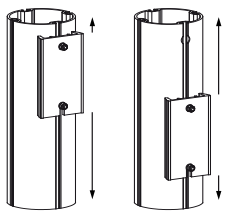
MK8-4x12RGBW
MK8-4x20RGBW

LF-BR
Bike rack

LF-BH
Basket hanger

LF-LRS
Banner holder

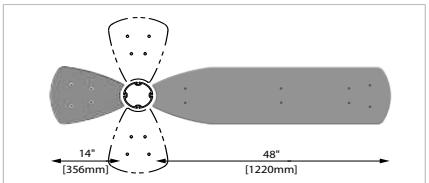
LF-SH
Street sign holder



HEIGHT ADJUSTABLE ATTACHMENT FOR ACCESSORIES

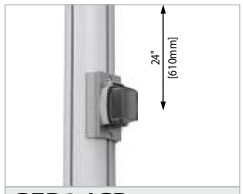
LF-B1
Single bench

LF-B2
Double bench



Bench configuration
For LF-B1 & LF-B2 benches

GFR8-ICA
Duplex c/w aluminum in-use cover



GFR8-ICP
Duplex c/w clear plastic in-use cover

GFR8-ICR
Duplex c/w retractable in-use cover

160° beam
800 lumens

LF08-PWL
Pedestrian LED access door

LF8-FIL
Catenary wires holder

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CAMERA CA1 -4
OVERVIEW

Security cameras & Main Unit Fisheye lens for wide area surveillance

AXIS F1035-E is ideal for highly discreet, wide area coverage in outdoor surveillance applications. The unit also supports Wide Dynamic Range (WDR) and Forensic Capture, ideal for scenes with very bright and dark areas. The rugged AXIS F1035-E withstands dust, rain, snow, vibration, shock and impact. It provides a 1080p resolution and a fisheye lens with a 194° horizontal field of view.

AXIS F44 Main Units enables streaming of 1080p or HDTV 720p videos from four sensor units simultaneously through one Ethernet port. Support for Zipstream technology lowers bandwidth and storage use. Other supported features include audio, input/output ports, Power over Ethernet, 8–28 V DC and two SD card slots.

- One to four (4) units can be mounted on the pole
- Orientation speci≥ed by the client
- WDR Ÿ Forensic Capture (with AXIS F44 Main Unit)

AXIS F1035-e Sensor Unit

Models	AXIS F1035-E 3m/10ft. cable: Fisheye, IP66/IP67 - rated AXIS F1035-E 12m/39ft. cable: Fisheye, IP66/IP67 - rated
Camera	
Image sensor	1/2.8" (effective) progressive scan RGB CMOS
Lens	Fixed iris 1.3 mm, F2.8 With AXIS F34/F41/F44 in 1080p: Horizontal angle of view : 194° Vertical angle of view: 113° With AXIS F34/F44 in 720p: Horizontal angle of view : 112° Vertical angle of view: 66°
Resolutions	Max. 1920x1200/1080
Wide dynamic range	WDR - Forensic Capture With AXIS F41: 1080p, 25/30 fps (50/60 HZ) With AXIS F44: 720p, 12.5/15 fps (50/60 HZ)
Minimum illumination	Color: 0.3 lux
Shutter time	With AXIS F34/F44: HDTV 720p 25/30 fps: 1/28000 s to 2 s 1080p 12.5/15 fps: 1/22500 s to 2 s With AXIS F41: HDTV 1080p 25/30/50/60 fps: 1/143000 s to 2 s WUXGA (1920x1200) 25/30 fps: 1/143000 s to 2 s
Frame rate	Max. 50/60 fps (50/60 Hz)

General	
Casing	IP66-, IP67- rated, Aluminum
Operating conditions	-30° C to 55° C (-22° F to 131° F) Humidity 10 - 100% RH (condensing)
Storage conditions	-40° C to 65° C (-40° F to 149° F)
Approvals	ECE R10 rev.04, EN 50121-4, IEC/EN/UL 60950-1, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-30, IEC 60068-2-78, IEC 60529 IP4X, IEC 62236-4, EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCCPart 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, EN 50581 IEC 60068-2-60, IEC 60529 IP66/IP67, IEC 60721-3-5 5M3 (vibration, shock), IEC/EN/UL 60950-22, NEMA 250 Type 4X
Dimensions	62 mm (2 7/16 in) Ø 30mm (1 3/16 in)
Weight	3m / 10 ft. cable: 96g (0.21 lb) 12m / 39ft. cable: 346g (0.76 lb)
Required hardware	AXIS F34/F41/F44 Main Unit
Included accessories	Installation Guide AXIS F8201 Vari-angle Mounting Bracket
Optional assessories	AXIS F8203 Fixed Mount Bracket AXIS F8204 Mounting Band AXIS F8212 Trim Ring AXIS F8235 Fiseye Accessory
Warranty	AXIS 3-year warranty and AXIS Extended Warranty option, see *www axis.com/warranty* Environmental responsibility: *www.axis.com/environmental-responsibility*

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CAMERA CA1-4
MAIN UNIT INFORMATIONS

AXIS F44 Dual Audio Input Main Unit

Video	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolutions	1920 x 1080 (1080p)[a] to 480 x 270 1280 x 720 To 480 x 270
Frame rate	In 1080p with no WDR: 12.5/15 fps (50/60 Hz) In 720p with no WDR: 25/30 fps (50/60Hz) In 720p with WDR: 12.5/15 fps (50/60 Hz)
Video streaming	Multiple, individually configurable streams in H264 and Motion JPEG Axis Zipstream technology in H 264 Controllable frame rate and bandwidth VBR/MBR H.264 Quad view, max. 1080p resolution 25/30 fps (50/60Hz) with 720p capture mode 12.5/15 fps (50/60Hz) with 1080p capture mode
Image settings	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure value, Exposure control, Exposure zones, Local contrast, Rotation, Corridor Format, Text and image overlay, Privacy mask, Mirroring of images Wide Dynamic Range - Forensic Capture[a]: Up to 120dB depending on scene.
Audio	
Audio streaming	Audio 1 : Two-way, full duplex and half duplex (mic / line input/line output) Audio 2 : Two-way, full duplex and half duplex (mic / line input/line output)
Audio compression	AAC-LC 8/16 kHz, 8-64 kbit/s G.7 11 PCM 8 kHz 64 kbit/s G.7 11 PCM 16 kHz 128 kbit/s G.7 26 AD PCM 8kHz 32 kbit/s or 24 kbit/s Configurable bit rate
Audio input/output	External microphone or line input (2 microphone or line inputs with included AXIS Stereo-to-mono Adapter) Line output
Network	
Security	Password protection, IP address filtering, HTTPS[b] encryption, IEEE 802.1X[b] network access control, Digest authentication, User access log. Centralize Certificate Management
Supported protocols	IPv4/v6, HTTP, HTTPS[b] SSL / TLS[b] QoS layer 3 DiffServ. FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP[tm], SNMPv1/v2c/v3 (MIB-II), DNS DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH
System interagtion	
Application Programming Interface	Open API for softwarer integration, including VAPIX® and AXIS Camera Application Platform (ACAP); specifications at *www.axis.com* AXIS Video Hosting System (AVHS) eith One-Click Connection ONVIF Profile S and ONVIF Profile G, specification at *www.onvif.org*
Analytics	Axis Video Motion Detection 4, active tampering alarm, audio detection detection Support for AXIA Camera Application Platform enabling installation of AXIS Cross Line Detection and third-party applications, see *www.axis.com/acap*
Event triggers	Analytics, External inputs Edge storage events
Event actions	File upload: email, FTP, HTTP, HTTPS, network share Notification: email,HTTP, HTTPS and TCP Pre- and post - alarm video buffering Video and audio recording to edge storage: Play audio clip, External output activation WDR mode
Built-in installation aids	Pixel counter
Data streaming	Event data
General	
Casing	Aluminum
Sustainability	PVC free
Memory	1024 MB RAM, 256 MB Flash
Power	Power over Ethernet (PoE) *IEEE* 802.3at/802.3at Type 1 Class 3 max 12.95 W 8-28 V DC, max 13.33 W
Connectors	RJ 45 for 10Base-T / 100 Base-TX PoE RJ 12 for sensor units 6-pin terminal block for four configurable inputs / outputs (12 V DC output), max. Load 50 mA 3.5 mm mic/line in. 3.5 mm line out 5-pin terminal block RS 232 2-pin terminal block for 8-28 V DC input
Storage	Two SD/SDHC/SDXC slots, (card not included) SD card encryption Support for encryption to network - attached storage (NAS) For SD card and NAS recommendations, see *www.axis.com*
Operating conditions	-30° C to 60° C (-22° F to 140° F) Humidity 10-85% RH (non-condensing)
Storage conditions	-40° C to 65° C (-40° F to 149° F)
Approvals	EMC EN 55024, EN 55032 Class A, EN50121-4, EN 61000-6-1, En 61000-6-2, IEC 62236-4, ECE R10 rev.05, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A RCM AS/NZS CISPR 32 Class A, KCC KN32 Class A, KN35 Safety IEC/EN/UL 60950-1 Environment EN 50581, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-30, IEC 60068-2-60, IEC 60068-2-78, IEC 60529 IP4X, IEC 60721-3-5 5M3 (vibration, shock)
Dimensions	51 x 121 x 121 mm (2 1/16 x 4 12/16 x 4 12/16in)
Weight	542 g (1.19 lb) 442 g (098 lb)
Included accessories	AXIS Stereo-to-Mono Adapter, Installation Guide, Windows decoder 1-user license, AVHS Authentication key
Optional accessories	AXIS F8001 Surface Mount with Strain Relief AXIS F8002 DIN Rail Clip AXIS T8120 15 W Midspan 1-port AXIS T83 Microphones For more accessories, see *www.axis.com*
Video management software	AXIS Companion, AXIS Camera Station, Video management software from Axis Application Development Partners available on *www.axis.com/support/downloads*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese.
Warranty	Axis 3-years warranty and AXIS Extended Warranty option, see *www.axis.com/warranty*

a. Valid for sensor units that support it
b. This product includes software developed by the OpenSSL Project for use in the Open SSL Toolkit. (www.openssl.org) , and cryptographic software written by Eric Young (eay@cryptsoft.com)

Environmental responsibility:
www.axis.com/environmental-responsibility

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SMART POLE FAMILY ESB-S

INTERNAL CONFIGURATION

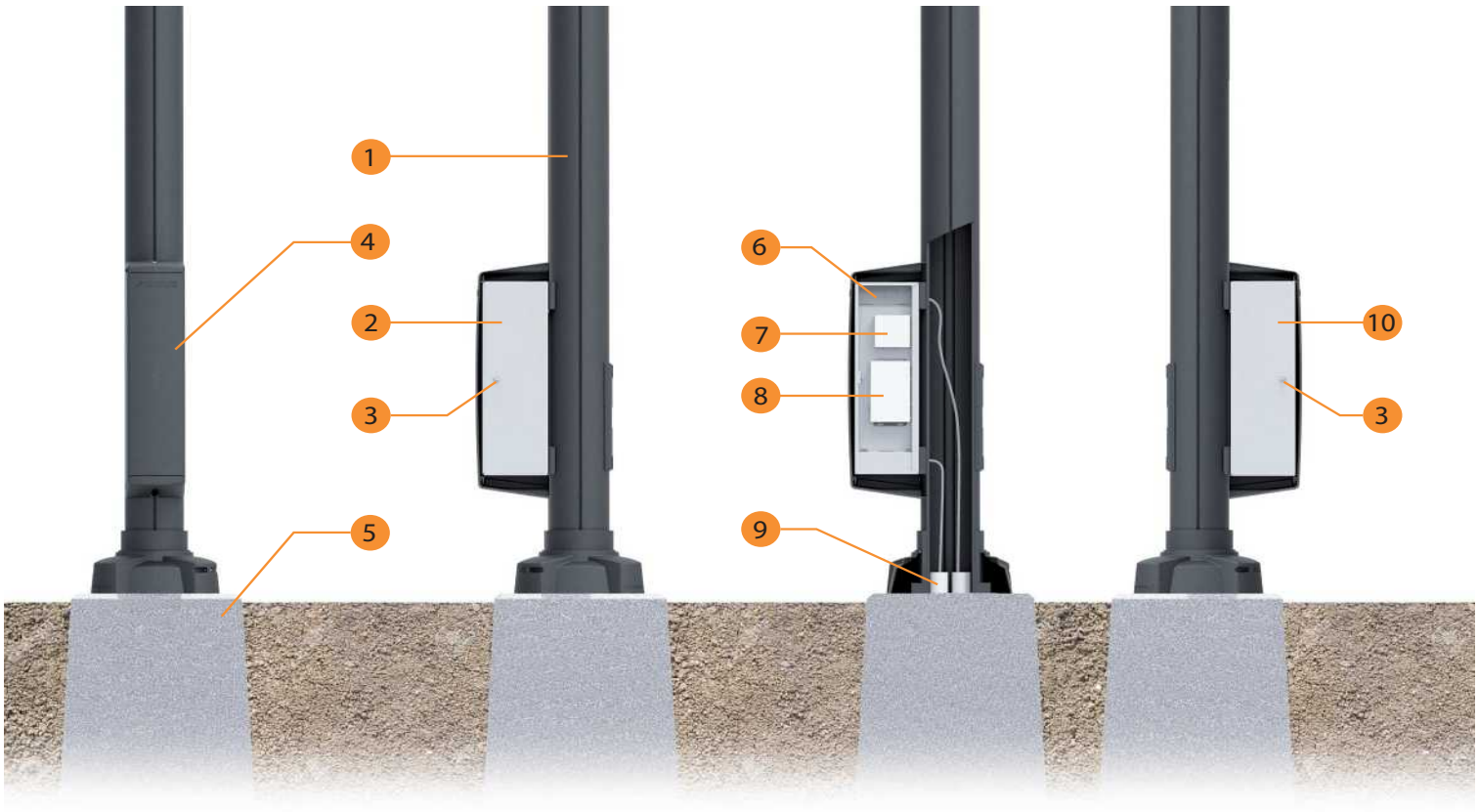
Electrical box (ESB-S)

Lumca ESB is an aesthetical base designed to receive various components. It is divided in 2 separate sections, one for network components and the second one serve as an electrical box.

Overall dimensions (W×H×D):
8”x34½”x9½” [203x876x241mm]

Mounting at variable height.

1. LUMFIX pole c/w Access door and WB18 base cover
2. Low voltage side
3. Weather-Resistant Keyed Cam Locks
4. Decorative cover (WBS)
5. New or existing concrete base (by others)
6. ESB (Sealed cabinet c/w 2 lockable doors and separator)
7. Communication device (Camera, Panic Button, etc.)
8. Control module (CM)
9. New or existing conduits in concrete base (by others)
10. High voltage side (Driver, Power supply, etc.)



This is a reference/schematique drawing, the look may be different than reality.
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Lumca LIGHTING LIFE

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SMART POLE FAMILY ESB-C

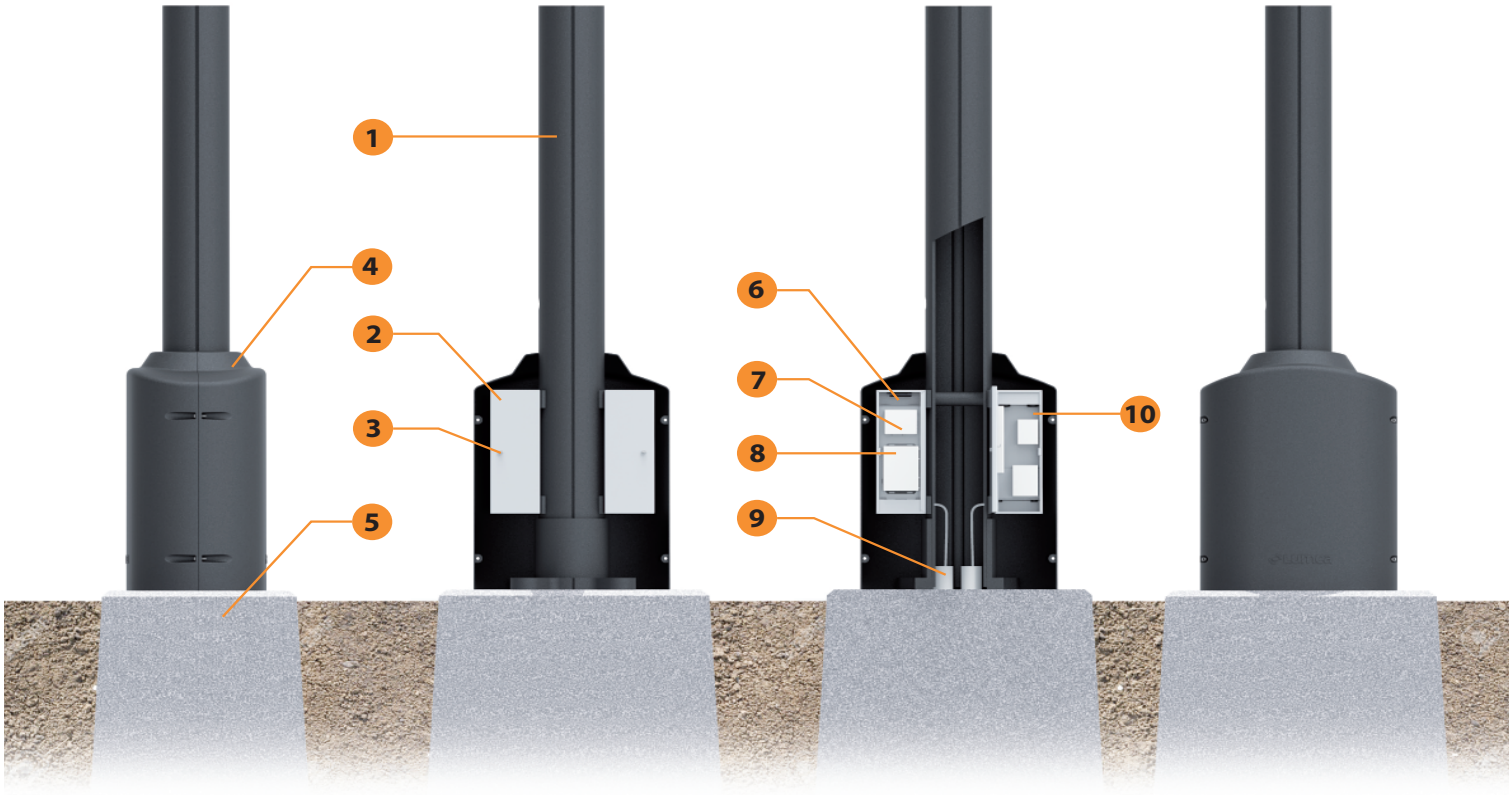
INTERNAL CONFIGURATION

Electrical box (ESB-C)

Lumca ESB is an aesthetical base designed to receive various components. It is divided in 2 separate boxes, one for network components and the second one serve as an electrical box.

Overall dimensions (W×H×D):
23½"x31"x16½" [597x787x419mm]

1. LUMFIX pole c/w Access door
2. ESB (2 Sealed cabinets c/w lockable doors)
3. Weather-Resistant Keyed Cam Locks
4. 2 decorative pieces cover (WBC)
5. New or existing concrete base (by others)
6. Low voltage side
7. Communication device (Camera, Panic Button, etc.)
8. Control module (CM)
9. New or existing conduits in concrete base (by others)
10. High voltage side (Driver, Power supply, etc.)



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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : INSIGHT LIGHTING
Model Number : ME-MO-RGB30-Q-2020-EAB-6-12-VOLT-DMXFX-FINISH-VS
Notes : VOLTAGE AND FINISH TO BE DETERMINED

Type : LT-3

insight lighting

MEDLEY EXTERIOR (ME)

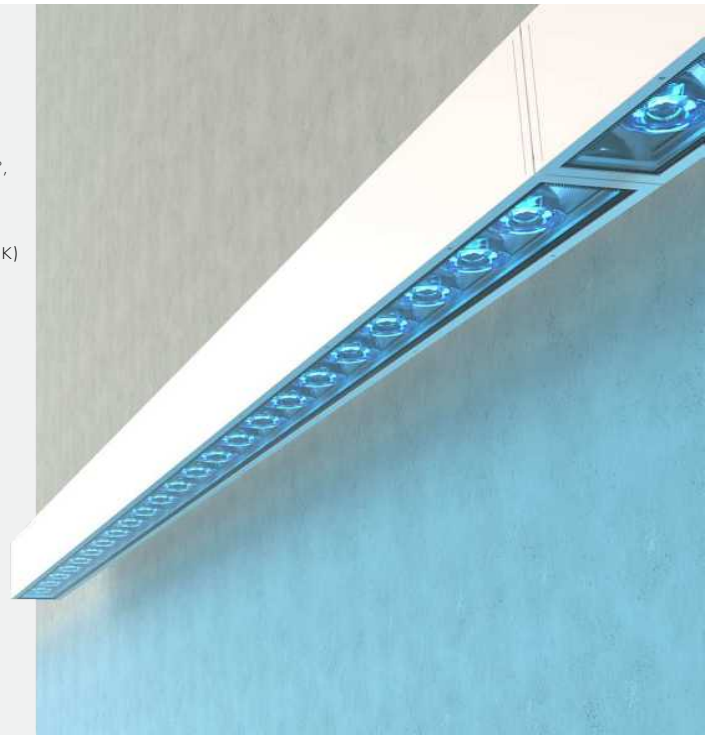
PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - -

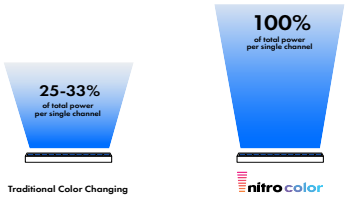
PROFILE

OUTPUT	LO (3.5W/FT), MO (9.0 W/FT), HO (15.0 W/FT)
OPTICAL DISTRIBUTION	10° X 10°, 10° X 60°, 10° X 90°, 20° X 20°, 20° X 60°, 40° X 40°, 40° X 60°, 40° X 90°, 60° X 60°, 60° X 90°, 80° X 80°, ASYMMETRIC GRAZE, DIRECT VIEW
CCT	RGBA, RGB22K, RGB27K, RGB30K, RGB35K, RGB40K, RGRYB40K, TUNABLE WHITE (2200K-6500K)
PERFORMANCE	UP TO 28865 PEAK CANDELA
VOLTAGE	120V OR 277V
POWER	INTEGRAL POWER SUPPLY
CONTROL	DMX+RDM
FIXTURE LENGTHS	12", 24", 36", 48" (NOMINAL LENGTHS)
WEIGHT	2.75 LB (1.25 KG) PER FOOT
HOUSING	ALUMINUM
LENS	HIGH DENSITY TEMPERED GLASS
FINISH	HIGH DURABILITY POWDER COATING
OPERATING TEMP	-20° C TO 50° C
WARRANTY	5-YEAR LIMITED
LUMEN MAINTENANCE	75,000 HOURS
CERTIFICATION	ETL AND cETL FOR IP67, IK07, 5G/3G OPTIONS

POWERED BY nitro color | Intertek | RoHS | made in USA | IP67 | IK07 | 3G ANSI C136.3 | 5G ANSI C136.31

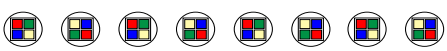


NITRO COLOR TECHNOLOGY

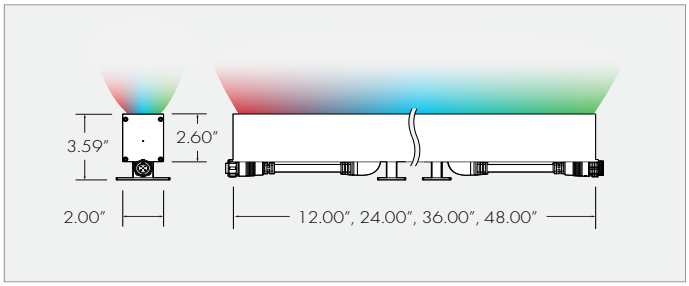


QUAD CLUSTER LED CONFIGURATION

The quad array integrates multiple colors (i.e. red, green, blue, white) into a single location for immediate and superior color saturation. This is ideal for direct line of sight applications where the face of the fixture is visible, creating color consistency between the luminaire and the illuminated surface. LED color combinations may be customized to suit any application (i.e. royal blue, cyan, lime, white, etc.). Please contact the factory for special branding requirements.



PROFILE



OPTIONS

DIRECT VIEW DOME LENS

SNOOTED LOUVER

LOUVERED VISOR

CONCEALED WIRING

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : INSIGHT LIGHTING
Model Number : ME-MO-RGB30-Q-2020-EAB-6-12-VOLT-DMXFX-FINISH-VS
Notes : VOLTAGE AND FINISH TO BE DETERMINED

Type : LT-3

insight lighting

MEDLEY EXTERIOR (ME)

PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - - -

SPECIFICATION

ME | Q | Separate options with dashes

1 2 3 4 5 6 7 8 9 10 11

1 FIXTURE

MEDLEY EXTERIOR	ME

2 WATTAGE

LOW OUTPUT 3.5 W/FT	LO
MEDIUM OUTPUT 9.0 W/FT	MO
HIGH OUTPUT 15.0 W/FT	HO

3 CCT

RED, GREEN, BLUE, AMBER	RGBA
RED, GREEN, BLUE, 22K	RGB22
RED, GREEN, BLUE, 27K	RGB27
RED, GREEN, BLUE, 30K	RGB30
RED, GREEN, BLUE, 35K	RGB35
RED, GREEN, BLUE, 40K	RGB40
RED, GREEN, ROYAL BLUE, 40K	RGRYB40
TUNABLE WHITE Kelvin tunable 2200K-6500K	AWH

Standard tunable range is 2200K - 6500K. Custom tunable ranges are available, select two CCTs to create a custom range: 2200K, 2700K, 3000K, 3500K, 4000K, 5000K, 6500K.

4 LED CONFIGURATION

QUAD CLUSTER	Q

5 OPTICAL DISTRIBUTION

10° X 10°	1010
10° X 60°	1060
10° X 90°	1090
20° X 20°	2020
20° X 60°	2060
20° X 90°	2090
40° X 40°	4040
40° X 60°	4060
40° X 90°	4090
60° X 60°	6060
60° X 90°	6090
80° X 80°	8080
ASY GRAZE UPLIGHT, LEFT POWER FEED	ASUL
ASY GRAZE UPLIGHT, RIGHT POWER FEED	ASUR
ASY GRAZE DOWNLIGHT, LEFT POWER FEED	ASDL
ASY GRAZE DOWNLIGHT, RIGHT POWER FEED	ASDR

[1]Asym Graze: See page 3 for details.

DIRECT VIEW DOME LENS	DVD

See page 9 for fixture height with dome lens.
DVD is available with Low and Medium Outputs only
DVD has a L.L.F. of 30%
DVD is not available with DMX FT BY FT Resolution

DIRECT VIEW FLAT LENS	WL

WL is not available with Tunable White
WL is available with Medium Output only
WL has a L.L.F. of 30%
WL is not available with DMX FT BY FT Resolution

6 MOUNTING

SURFACE MOUNT 5G Ansi C136.31 rated	SM
SURFACE BACK MOUNT	SMB
EXTENDED ARM X = extended arm length specify 6", 12" or 18" 6.00" arm is 3G Ansi C136.3 rated	EA-X
EXTENDED ARM, BACK X = extended arm length specify 6", 12" or 18"	EAB-X
FIXED MOUNT	FM
GROUND MOUNT	GM
STAKE MOUNT	STM

Left-hand power feed is standard on all mounting options.
A leader cable is required for all mounting options. Order separately. See below for details.

7 FIXTURE LENGTH

12"	12
24"	24
36"	36
48"	48

8 VOLTAGE

120V	120
277V	277

9 CONTROL OPTIONS

DMX SYSTEM RESOLUTION	DMXSY
DMX FIXTURE RESOLUTION	DMXFX
DMX FT BY FT RESOLUTION	DMXFT

Default factory setting is DMX System Resolution

Fixtures are not pre-addressed or labeled at the factory. A **DMXCAT Tool** is required for on-site fixture resolution and addressing. Must be ordered separately. See DMX Tools below.

Fixtures are shipped from the factory with default addressed channels 1-4 for RGBW addressed channels 1-2 for Active White

A **CDS/RDM Distribution Kit** is required. Must be ordered separately. See DMX Tools below.

DMX controls are required and must be ordered separately.

10 FINISH

TEXTURED WHITE	TW
TEXTURED BLACK	TB
TEXTURED BRONZE	TBR
TEXTURED LIGHT BRONZE	TLB
TEXTURED GRAY	TG
TEXTURED SANDSTONE	TS
ANODIZED ALUMINUM Includes **CRF** finish	AA
CUSTOM COLOR Contact factory for custom color-additional charges will apply	CC

11 OPTIONS

INTERNAL HONEYCOMB LOUVER	IHL

Internal Honeycomb Louver is recommended with symmetric distributions only (ie: 10°X10°, 20°X20°, 40°X40°, 60°X60°, 80°X80°.
IHL is not available with Direct View Dome Lens

SNOOTED LOUVER	LV

Field installable snooted louver
L.L.F. of 10% - 15% depending on external louver color
LV is not available with Direct View Dome Lens
LV is not available with Louvered Visor

LOUVERED VISOR	VS

Field installable visored louver
L.L.F. of 10% - 15% depending on louvered visor color
VS is not available with Direct View Dome Lens
VS is not available with Snooted Louver

WHITE CABLES	WC

White fixtures are provided with white cables and connectors. All other fixture finishes are provided with black cabling unless **WC** option is specified.

CONCEALED WIRING	CW

Not available with 12" fixture
Only available with SMB & EAB mounting options

CORROSION RES. FINISH	CRF

Corrosion Resistance Finish Complies with ASTM B117 standard
CRF is recommended for coastal or extreme exterior environments

DMX TOOLS AND CABLE OPTIONS

DMX DISTRIBUTION KIT & ADDRESSING TOOL - REQUIRED

DMX/RDM DISTRIBUTION KIT - IP67	CDS-RDM

DMX/RDM Distribution Kit consists of four outputs
Each output is limited to (1) run per output - up to 32 fixtures max
Four terminators are included for end of line termination.

REMOTE DMX/RDM ADDRESSING AND MONITORING TOOL	DMXCAT

DMXCAT Remote Addressing and Monitoring Tool uses Bluetooth LE technology for communication with the smart-phone/applications (up to 50' range). **Allows for on-site fixture resolution and addressing.**
Contact factory for Wireless DMX/RDM

LEADER CABLES - REQUIRED

See page 8 >

5.0 FT LEADER CABLE	LC-5
10.0 FT LEADER CABLE	LC-10

EXTERIOR JUMPER CABLES (FOR LINE VOLTAGE ONLY) - OPTIONAL

1.0 FT JUMPER CABLE	JC-1
2.0 FT JUMPER CABLE	JC-2
5.0 FT JUMPER CABLE	JC-5
10.0 FT JUMPER CABLE	JC-10
25.0 FT JUMPER CABLE	JC-25

White fixtures are provided with white cables. Black cables are provided for all other finishes unless **WC** option is specified.
Cables are not rated for direct burial. See local codes for installation. Cables are not available with 347V or 480V.

insight lighting
4341 Fulcrum Way NE, Rio Rancho New Mexico 87144
P.: 505.345.0888 | insightlighting.com

insight lighting

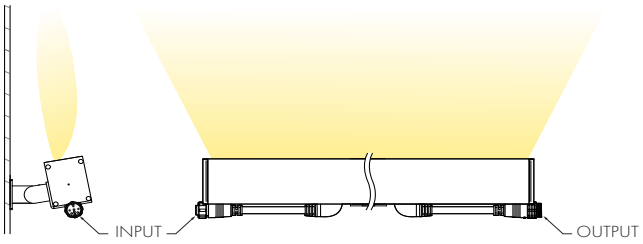
MEDLEY EXTERIOR (ME)

PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

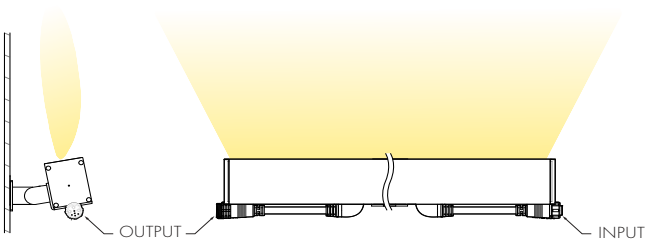
PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - -

ASYMMETRIC DISTRIBUTIONS/LIGHT DIRECTION /FEED LOCATIONS

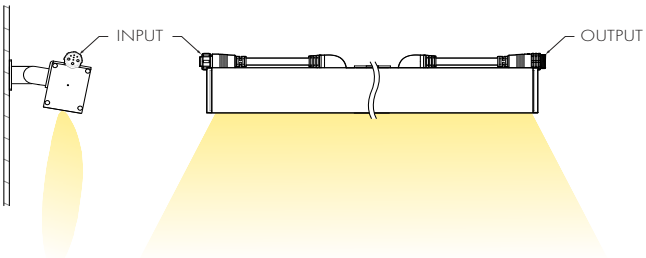
ASYMMETRIC GRAZE UPLIGHT | LEFT POWER FEED



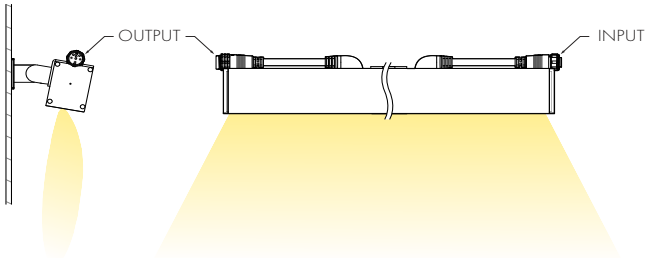
ASYMMETRIC GRAZE UPLIGHT | RIGHT POWER FEED



ASYMMETRIC GRAZE DOWNLIGHT | LEFT POWER FEED



ASYMMETRIC GRAZE DOWNLIGHT | RIGHT POWER FEED



insight lighting

MEDLEY EXTERIOR (ME)

PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - -

WIRING

MAXIMUM FIXTURES (PER LEADER CABLE)

LOW OUTPUT (3.5 W/FT)		MEDIUM OUTPUT (9.0 W/FT)		HIGH OUTPUT (15 .0 W/FT)	
120V	277V	120V	277V	120V	277V
32 FIXTURES	32 FIXTURES	32 FIXTURES	32 FIXTURES	UP TO 32 FIXTURES **Not to exceed 1200 Watts**	UP TO 32 FIXTURES **Not to exceed 1200 Watts**

1000 feet maximum to end of last fixture per output

insight lighting

MEDLEY EXTERIOR (ME)

PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - -

PERFORMANCE

		LOW OUTPUT (3.5 W/FT) - 48" FIXTURE				MEDIUM OUTPUT (9.0 W/FT) - 48" FIXTURE				HIGH OUTPUT (15.0 W/FT) - 48" FIXTURE			
OPTICS	CCT	TOTAL WATTAGE	LUMENS	LM/W	PEAK CANDELA	TOTAL WATTAGE	LUMENS	LM/W	PEAK CANDELA	TOTAL WATTAGE	LUMENS	LM/W	PEAK CANDELA
10° X 10°	TUNABLE WHITE	16.00	804	50.66	14938	40.80	2067	50.66	38467	68.00	3445	50.66	64112
	RGB40 FULL	16.26	570	35.06	5138	36.86	1454	39.45	13090	60.55	2430	40.13	22249
	RED	16.05	446	27.79	4006	35.97	1030	28.63	9312	50.72	1364	26.89	12440
	GREEN	16.57	756	45.62	6816	37.34	1905	51.02	17201	61.03	3154	51.68	28865
	BLUE	15.88	102	6.42	856	35.74	267	7.47	2245	58.29	462	7.93	3943
	WHITE	15.97	739	46.27	6653	35.98	1861	51.72	16770	58.72	3057	52.06	28054
10° X 60°	TUNABLE WHITE	16.00	692	42.40	2530	2.00	1781	42.40	6514	70.00	2968	42.40	10857
	RGB40 FULL	16.14	449	30.92	1157	36.68	1304	35.55	3304	60.79	2193	36.08	5542
	RED	16.05	386	24.05	1286	35.92	911	25.36	2329	50.85	1213	23.85	3086
	GREEN	16.70	677	40.54	1734	37.33	1733	46.42	4379	60.90	2845	46.72	7167
	BLUE	15.92	87	5.46	211	35.75	235	6.57	562	58.31	402	6.89	955
	WHITE	15.92	653	41.02	1695	35.97	1680	46.71	4310	58.71	2740	46.67	6999
10° X 90°	TUNABLE WHITE	13.00	560	43.67	1244	33	1441	43.67	3204	55.00	2402	43.67	5340
	RGB40 FULL	15.99	504	31.52	776	35.70	1302	36.47	1999	60.51	2069	34.19	3235
	RED	16.04	393	24.50	608	35.91	901	25.09	1399	50.55	1121	22.18	1760
	GREEN	16.57	686	41.40	1051	37.30	1726	46.27	2651	60.88	2746	45.11	4277
	BLUE	15.88	89	5.60	130	35.74	233	6.52	343	58.23	387	6.65	573
	WHITE	15.97	666	41.70	1029	35.97	1674	46.54	2599	58.65	2642	45.05	4169
20° X 20°	TUNABLE WHITE	16.00	824	51.94	6658	40.80	2119	51.94	17146	68.00	3532	51.91	28576
	RGBW FULL	14.50	485	33.45	2216	36.47	1395	38.25	6403	61.15	2385	39.00	11005
	RED	16.10	300	18.63	1369	35.90	874	24.35	3870	51.49	1502	29.17	6652
	GREEN	16.40	700	42.68	3199	37.30	1959	52.52	9106	60.64	3367	55.52	15651
	BLUE	15.25	100	6.56	458	35.77	283	7.91	1284	58.73	486	8.28	2206
	WHITE	15.90	681	42.83	3112	35.97	1955	54.35	9091	59.15	3360	56.80	15626
20° X 60°	TUNABLE WHITE	16.00	742	46.75	1621	40.80	1907	46.75	4175	68.00	3179	46.75	6959
	RGB40 FULL	14.45	423	29.27	757	36.38	1223	33.62	2190	60.60	2069	34.14	3740
	RED	16.10	262	16.27	467	35.80	756	21.12	1353	51.40	1279	24.88	2310
	GREEN	16.40	611	37.26	1093	37.20	1765	47.45	3160	60.60	2987	49.29	5398
	BLUE	15.25	88	5.77	156	35.40	253	7.15	452	58.40	428	7.33	773
	WHITE	15.90	595	37.42	1063	35.90	1717	47.83	3075	59.10	2906	49.17	5252
20° X 90°	TUNABLE WHITE	12.00	586	49.22	931	30.60	1506	49.22	2398	51.00	2510	49.22	3996
	RGB40 FULL	14.70	420	28.57	517	36.47	1197	32.82	1483	61.0	2015	33.03	2471
	RED	16.10	259	16.09	319	35.80	740	20.67	916	51.50	1245	24.17	1526
	GREEN	16.40	605	36.89	747	37.10	1728	46.58	2140	60.10	2909	48.40	3566
	BLUE	15.25	87	5.70	107	35.60	248	6.97	306	58.70	417	7.10	510
	WHITE	15.90	589	37.04	727	35.90	1681	46.82	2082	59.10	2830	47.88	3469
40° X 40°	TUNABLE WHITE	16.00	863	54.43	1203	40.80	2221	54.43	3098	68.00	3701	54.43	5163
	RGB40 FULL	14.70	563	38.30	760	36.37	1551	42.65	2426	60.65	2618	43.17	3540
	RED	16.10	348	21.61	469	35.60	958	26.91	1489	50.77	1596	31.44	2128
	GREEN	16.40	812	49.51	1097	37.30	2239	60.03	3479	61.18	3868	63.22	6157
	BLUE	15.20	116	7.63	157	35.40	321	9.07	498	59.12	532	9.00	830
	WHITE	15.80	790	50.00	1068	35.80	2178	60.84	3385	59.26	3718	62.74	5741
40° X 60°	TUNABLE WHITE	16.00	774	48.76	628	40.80	1990	48.76	1616	68.00	3316	48.76	2694
	RGB40 FULL	14.30	503	35.17	421	36.30	1395	38.43	1169	60.49	2339	38.67	1961
	RED	16.10	311	19.32	260	35.70	862	24.15	722	50.10	1445	28.84	1211
	GREEN	16.20	725	44.75	608	37.10	2013	54.26	1688	60.80	3376	55.53	2830
	BLUE	15.30	104	6.80	87	35.50	288	8.11	241	58.50	484	8.27	405
	WHITE	15.80	706	44.68	591	35.90	1958	54.54	1642	59.40	3284	55.29	2753
40° X 90°	TUNABLE WHITE	12.00	600	49.46	456	31.20	1543	49.46	1173	52.00	2572	49.46	1955
	RGB40 FULL	14.10	459	32.55	308	36.30	1275	35.12	857	59.93	2138	35.67	1438
	RED	16.10	284	17.64	190	35.70	788	22.07	529	50.10	1321	26.37	888
	GREEN	16.20	663	40.93	445	37.10	1840	49.60	1237	60.80	3086	50.76	2074
	BLUE	15.30	95	6.21	63	35.50	264	7.44	177	58.50	440	7.52	297
	WHITE	15.80	645	40.82	433	35.90	1790	49.86	1203	59.40	3002	50.54	2018
60° X 60°	TUNABLE WHITE	16.00	854	53.81	762	40.80	2195	53.81	1963	68.00	3659	53.81	3271
	RGB40 FULL	14.00	295	21.07	301	36.00	1375	38.19	1401	61.10	2304	37.71	2350
	RED	16.00	182	11.38	186	35.00	849	24.26	865	51.00	1424	27.92	1451
	GREEN	16.00	426	26.63	434	37.00	1984	53.62	2022	61.00	3326	54.52	3390
	BLUE	15.00	61	4.07	62	35.00	284	8.11	289	58.00	477	8.22	485
	WHITE	16.00	415	25.94	422	36.00	1930	53.61	1967	59.00	3236	54.85	3298
60° X 90°	TUNABLE WHITE	16.00	555	34.99	346	40.80	1427	34.99	890	68.00	2379	34.99	1484
	RGB40 FULL	14.00	236	16.86	145	36.00	1097	30.47	675	60.89	1838	30.19	1133
	RED	16.00	145	9.06	89	35.00	678	19.37	417	51.00	1136	22.27	699
	GREEN	16.00	340	21.25	209	37.00	1583	42.78	975	61.00	2654	43.51	1634
	BLUE	15.00	49	3.27	30	35.00	227	6.49	139	58.00	380	6.55	234
	WHITE	16.00	331	20.69	203	36.00	1540	42.78	948	59.00	2582	43.76	1590
80° X 80°	TUNABLE WHITE	16.00	784	49.43	503	40.80	2017	49.43	1295	68.00	3361	49.43	2159
	RGB40 FULL	14.00	219	15.64	161	36.00	609	16.92	449	60.65	1021	16.83	753
	RED	16.00	136	8.50	100	35.00	376	10.74	277	51.00	631	12.37	465
	GREEN	16.00	317	19.81	233	37.00	879	23.76	14648	61.00	1474	24.16	1087
	BLUE	14.00	45	3.21	33	35.00	126	3.60	92	58.00	211	3.64	155
	WHITE	16.00	308	19.25	227	35.00	855	24.43	630	59.00	1434	24.31	1057

Revised 09/9/2024
Specifications subject to change without notice

5/10

insight lighting
4341 Fulcrum Way NE, Rio Rancho New Mexico 87144
P.: 505.345.0888 | insightlighting.com

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : INSIGHT LIGHTING
Model Number : ME-MO-RGB30-Q-2020-EAB-6-12-VOLT-DMXFX-FINISH-VS
Notes : VOLTAGE AND FINISH TO BE DETERMINED

Type : LT-3

insight lighting

MEDLEY EXTERIOR (ME)

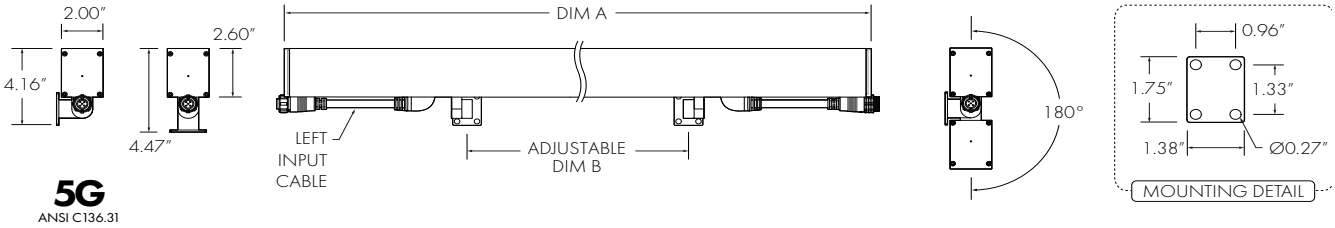
PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - - -

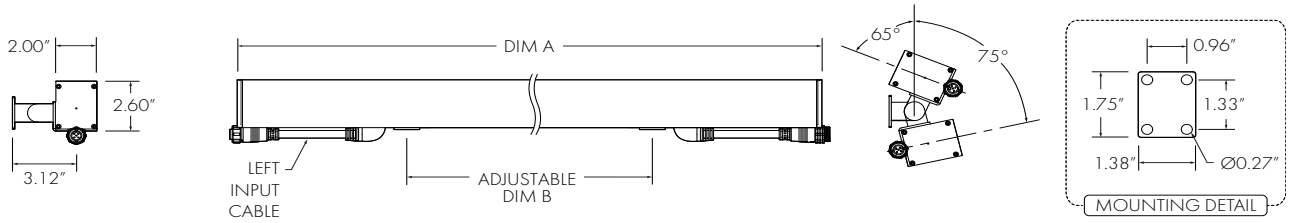
DIMENSIONS

	12.00"	24.00"	36.00"	48.00"
DIM A	12.10"	23.85"	35.60"	47.35"
DIM B	9.28"	4.00" MIN | 6.00" MAX	12.00" MIN | 18.00" MAX	18.00" MIN | 30.00" MAX

SURFACE MOUNT (SM)



SURFACE, BACK MOUNT (SMB)



insight lighting

MEDLEY EXTERIOR (ME)

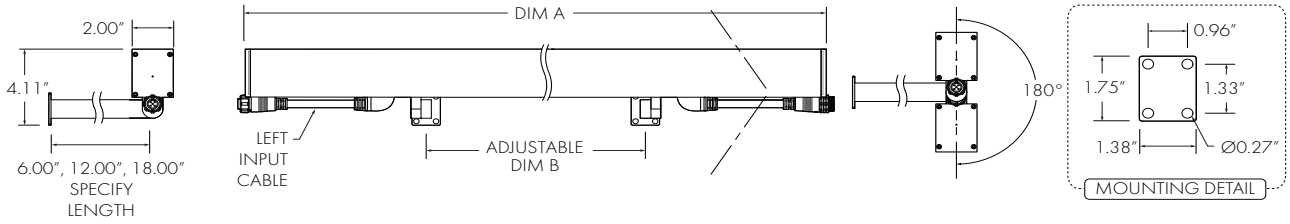
PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - -

DIMENSIONS

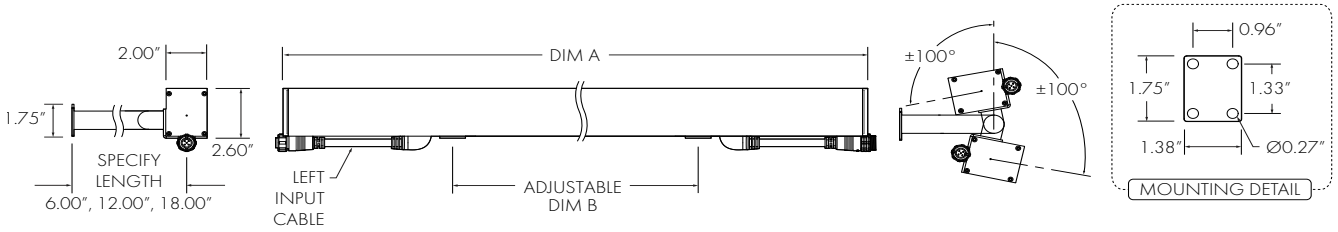
	12.00"	24.00"	36.00"	48.00"
DIM A	12.10"	23.85"	35.60"	47.35"
DIM B	9.28"	4.00" MIN | 6.00" MAX	12.00" MIN | 18.00" MAX	18.00" MIN | 30.00" MAX

EXTENDED ARM (EA-X)

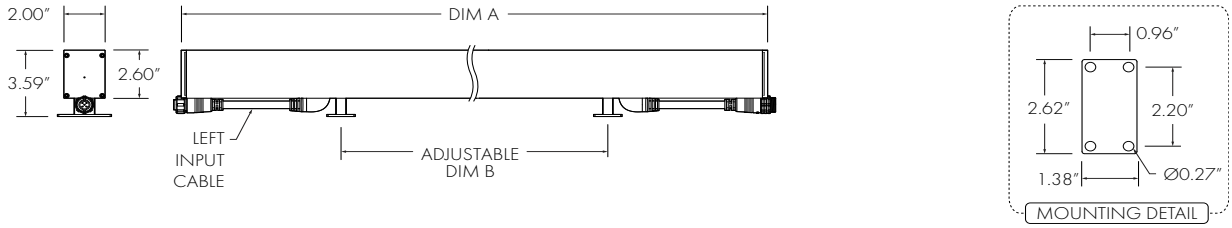


3G
ANSI C136.3
3G rated with 6.00" arm

EXTENDED ARM, BACK MOUNT (EAB-X)



FIXED MOUNT (FM)



insight lighting

MEDLEY EXTERIOR (ME)

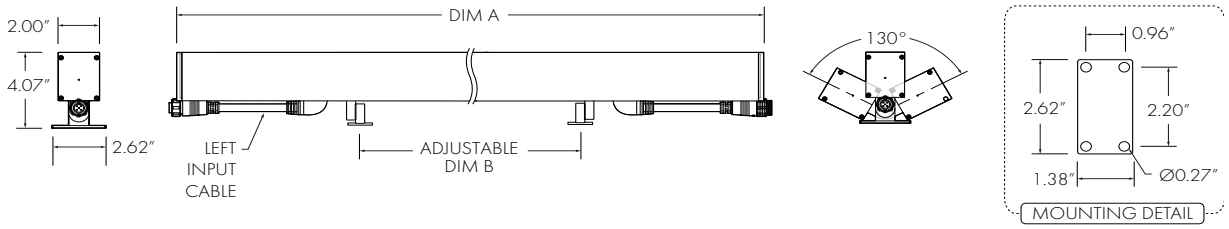
PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - -

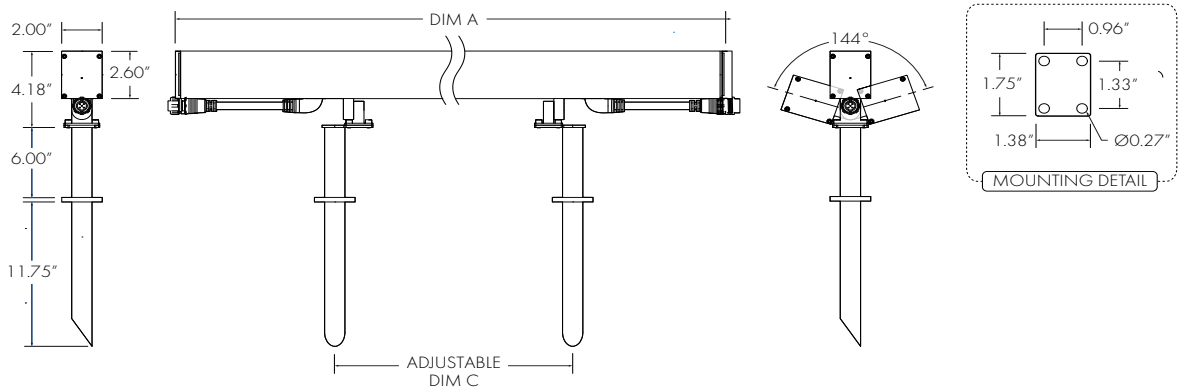
DIMENSIONS

	12.00"	24.00"	36.00"	48.00"
DIM A	12.10"	23.85"	35.60"	47.35"
DIM B	9.28"	4.00" MIN | 6.00" MAX	12.00" MIN | 18.00" MAX	18.00" MIN | 30.00" MAX
DIM C	10.56	4.00" MIN | 6.00" MAX	34.0"	18.00" MIN | 30.00" MAX

GROUND MOUNT (GM)



STAKE MOUNT



insight lighting

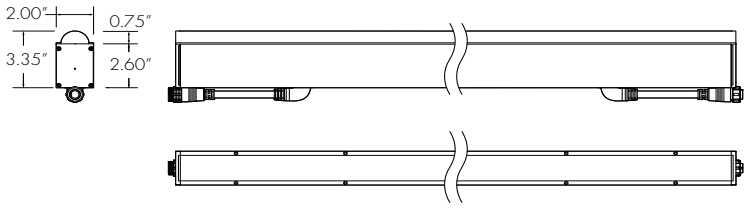
MEDLEY EXTERIOR (ME)

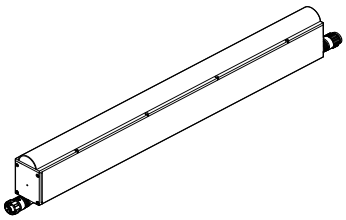
PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - -

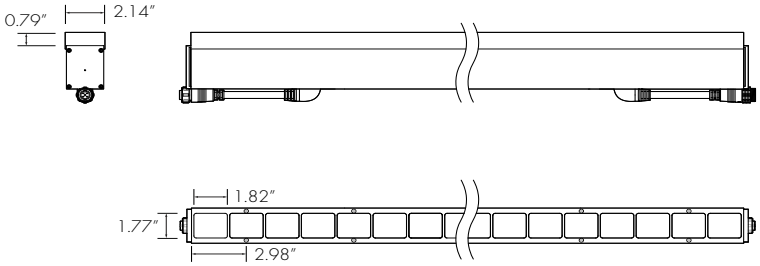
ACCESSORIES

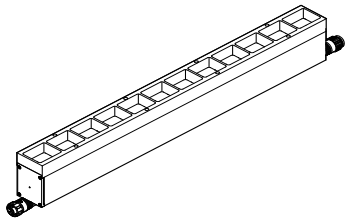
DIRECT VIEW DOME LENS (DVD)



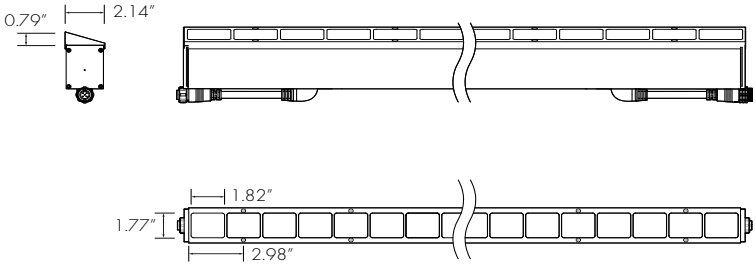


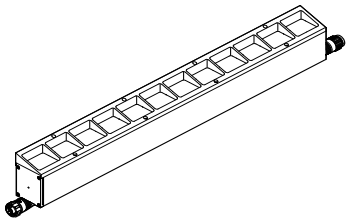
SNOOTED LOUVER (LV)



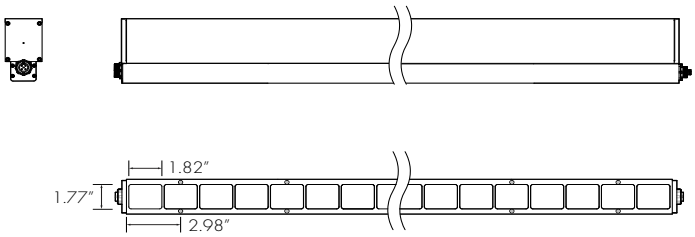


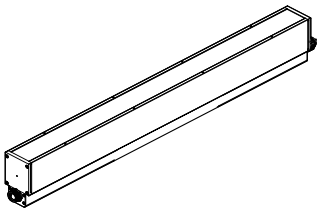
LOUVERED VISOR (VS)





CONCEALED WIRING (CW)





Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : INSIGHT LIGHTING
Model Number : ME-MO-RGB30-Q-2020-EAB-6-12-VOLT-DMXFX-FINISH-VS
Notes : VOLTAGE AND FINISH TO BE DETERMINED

Type : LT-3

insight lighting

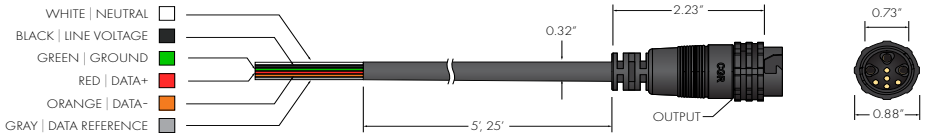
MEDLEY EXTERIOR (ME)

PERFORMANCE LINEAR | COLOR CHANGING + TUNABLE WHITE

PROJECT: TYPE: CATALOG #: ME- - - Q - - - - - - - - -

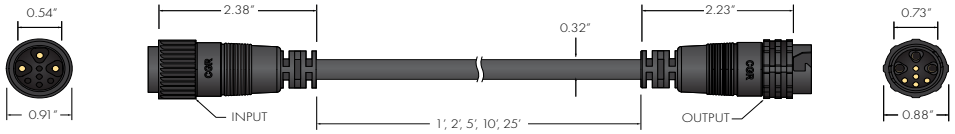
EXTERIOR LEADER CABLE (LC-X)

WHITE/BLACK | 3x16AWG | 3X20AWG | 105°C | 300V | IP67



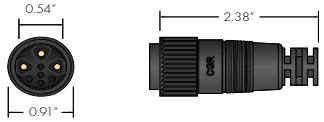
EXTERIOR JUMPER CABLE (JC-X)

WHITE/BLACK | 3x16AWG | 3x20AWG | 105°C | 300V | IP67



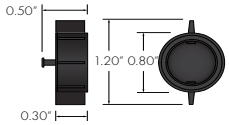
EXTERIOR DMX TERMINATOR

WHITE/BLACK | 105°C | IP67



EXTERIOR CAP

WHITE/BLACK | 105°C | IP67



Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : DS-LED-E65-WFL-A9-FINISH-12-A-360SL
Notes : FINISH TO BE DETERMINED

Type : LT-5

DELTA STAR LED — IP66 RATED

DATE:	PROJECT:	TYPE:

CATALOG NUMBER LOGIC:

**Designed for use with LED transformer. Requires magnetic low voltage dimmer.*

***Please see Adjust-e-Lume photometry to determine desired intensity.*

****The 360SL cost is already included in the price of UPM, UPM dual, and Power Canopy.*

CATALOG NUMBER LOGIC	
Example: B - DS - LED - e64 - SP - A7 - BZP - 12 - 11 - A - 360SL	
MATERIAL	
(Blank) - Aluminum	B - Brass S - Stainless Steel
SERIES	
DS - Delta Star	
SOURCE	
LED - with Integral Dimming Driver (25W min. load when dimmed)*	
LED TYPE	
e64 - 7W LED/2700K	e79 - 7W LED/2700K 90CRI
e65 - 7W LED/3000K	e80 - 7W LED/3000K 90CRI
e66 - 7W LED/4000K	e81 - 7W LED/3500K 80CRI
e74 - 7W LED/Amber	
OPTICS	
NSP - Narrow Spot (13°)	MFL - Medium Flood (23°)
SP - Spot (16°)	WFL - Wide Flood (31°)
ADJUST-E-LUME® OUTPUT INTENSITY**	
A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1	
FINISH (See page 2 for full-color swatches)	
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)	
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)	
Also available in RAL Finishes	
Brass Finishes (MAC, POL, MIT)	
Stainless Steel Finishes (MAC, POL)	
LENS TYPE	
12 - Soft Focus	13 - Rectilinear
SHIELDING	
11 - Honeycomb Baffle	
CAP STYLE	
A - 45°	
B - 90°	
C - Flush Lens	
D - 45° Less Weephole (Interior use only)	
E - 90° Less Weephole (Interior use only)	
F - 90° with Flush Lens	
OPTION	
360SL - Knuckle Mounting System***	
MOD OPTIONS	
5 - 5 Ft Leads	
25 - 25 Ft Leads	

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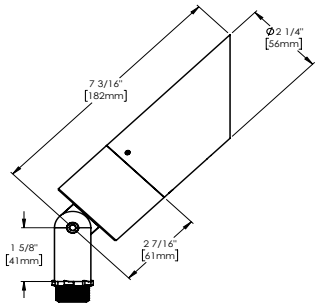
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : DS-LED-E65-WFL-A9-FINISH-12-A-360SL
Notes : FINISH TO BE DETERMINED

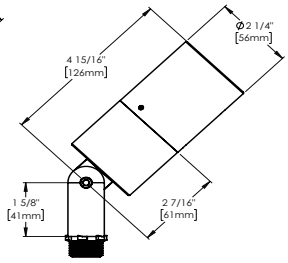
Type : LT-5

DELTA STAR LED — IP66 RATED

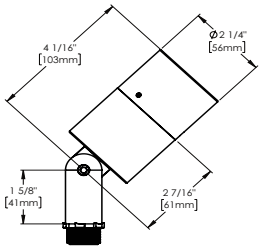
DATE:	PROJECT:	TYPE:



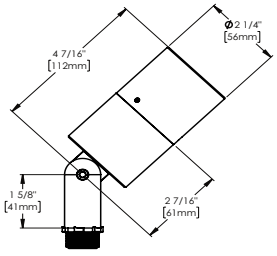
A/D CAP



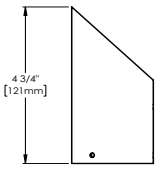
B/E CAP



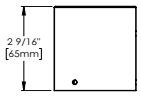
C CAP



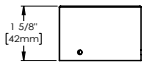
F CAP



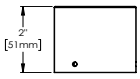
A/D CAP



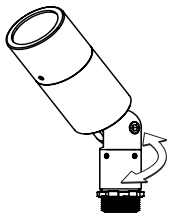
B/E CAP



C CAP



F CAP



Horizontal Rotation (Optional 360SL Knuckle)

STANDARD FINISHES

- Satin Black (BLP)
- Satin Bronze (BZP)
- Satin White (WHP)
- Satin Aluminum (SAP)
- Black Wrinkle (BLW)
- Bronze Wrinkle (BZW)
- White Wrinkle (WHW)
- Verde (VER)

Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES

- Cascade Mtn. Granite (CMG)
- Rocky Mtn. Granite (RMG)
- Sierra Mtn Granite (SMG)
- Aleutian Mtn Granite (AMG)
- Textured Forest (TXF)
- Black Chrome (BCM)
- Beige (BGE)
- Weathered Copper (WCP)
- Old Copper (OCP)
- Hunter Green (HUG)
- Antique Brass Powder (ABP)
- Brown Patina Powder (BPP)
- Sonoran Desert Sandstone (SDS)
- Weathered Iron (WIR)
- Clear Anodized Powder (CAP)
- Cream (CRM)
- Antique White (AQW)
- Natural Brass Powder (NBP)

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05/13/2024 SKU-739
SUB000930

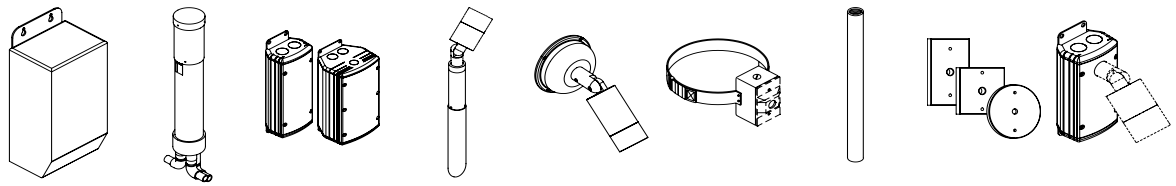
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : DS-LED-E65-WFL-A9-FINISH-12-A-360SL
Notes : FINISH TO BE DETERMINED

Type : LT-5

DELTA STAR LED — IP66 RATED

DATE:	PROJECT:	TYPE:

Accessories (Configure separately)



TR Series | Power Pipe | UPMRM | Power Pipe | Power Canopy | Tree Strap | Stems | Canopies | UPM

SPECIFICATIONS

ELECTRICAL	WATTAGE	7W LED
	WIRING	XLPE, 18GA,150C, 600V, rated and certified to UL3321.
	REMOTE TRANSFORMER	For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	KNUCKLE	LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second, reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lbs. static load prior to movement for optical alignment with a ½" pipe thread for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.
	CAP	Fully machined and accommodates two (2) lens or louver media.
	LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	LED	Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components. Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current (limited to <250mA non-dimming). Output, overvoltage, open-circuit, and short circuit protected. Conforms to Safety Std. C22.2 No. 25013-12.
	DIMMING	Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.
	ADJUST-E-LUME	Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.
	OPTICS	Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot (SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue.
	HARDWARE	Tamper-resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance.
	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.

c UL us LISTED

RoHS

MADE IN THE USA

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05/13/2024 SKU-739
SUB000930

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : DS-LED-E65-WFL-A9-FINISH-12-A-360SL
Notes : FINISH TO BE DETERMINED

Type : LT-5

LAMP & DRIVER DATA (e64, e65, e66, e74)

DATE: | PROJECT: | TYPE:

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

	LM79 DATA			L70 DATA	OPTICAL DATA			
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})	Angle	CBCP	Delivered Lumens	Multiplier
e64	2700K	80	7	50,000	13°	5993	456	0.87
	2700K	80	7	50,000	16°	4546	445	0.87
	2700K	80	7	50,000	23°	1726	397	0.87
	2700K	80	7	50,000	31°	1131	399	0.87
e65	3000K	80	7	50,000	13°	6131	466	0.89
	3000K	80	7	50,000	16°	4650	455	0.89
	3000K	80	7	50,000	23	1766	406	0.89
	3000K	80	7	50,000	31°	1157	409	0.89
e66	4000K	80	7	50,000	13°	6889	524	
	4000K	80	7	50,000	16°	5225	511	
	4000K	80	7	50,000	23°	1984	456	
	4000K	80	7	50,000	31°	1300	459	
e74	Amber	80	7	50,000	13°	3,927	299	0.57
	Amber	80	7	50,000	16°	2,978	291	0.57
	Amber	80	7	50,000	23°	1,131	260	0.57
	Amber	80	7	50,000	31°	741	262	0.57

OPTICS

Optic	Angle
NSP - Narrow Spot	13°
SP - Spot	16°
MFL - Medium Flood	23°
WFL - Wide Flood	31°

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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : PP-J18-FINISH-B-SF
Notes : FINISH TO BE DETERMINED

Type : LT-5

POWER PIPE

ORDER FIXTURE SEPARATELY.

DATE: | PROJECT: | TYPE:

CATALOG NUMBER LOGIC:

**Includes stake, not available with Junction Box or transformer. Not compatible with fixtures that has 360HD knuckle.*

***For use with MR16 LED Lamps and Halogen Lamps.*

****For use with 3W-7W LED fixtures. 105-300 VAC. 50/60 Hz. non-dimming.*

*****Non-dimming.*

CATALOG NUMBER LOGIC
Example: PP - S12 - TRSS75 - BZW - B - 120 -SF
MATERIAL
(Blank) - Aluminum B - Brass S - Stainless Steel
SERIES
PP - Power Pipe System
TYPE
S12 - 12" Stake
S18 - 18" Stake
J12 - 12" Junction Box
J18 - 18" Junction Box
A18 - 18" Adjustable Stem*
TRANSFORMER HOUSING
(Blank) - Less Transformer Housing
TRSS75 - 75VA Electronic Transformer with Housing**
TRe20 - TRe20 Electronic Transformer with Housing***
FINISH (See page 2 for full-color swatches)
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
(Also available in RAL Finishes. See submittal SUB-1439-00)
Brass Finishes (MAC, POL, MIT)
Stainless Steel Finishes (MAC, POL)
CAP STYLE
(Blank) - Less Cap (Adjustable stem only)
B - Single Hole Cap
C- Solid Cap
INPUT VOLTAGE
(Blank) - For use with TRe20 Electronic Transformer***
120 - 120 VAC (For use with TRSS75)
230 - 230 VAC**** (Electronic only, for use with TRSS75)
277 - 277 VAC**** (For use with TRSS75)
OPTIONS
SF - Stability Flange

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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : PP-J18-FINISH-B-SF
Notes : FINISH TO BE DETERMINED

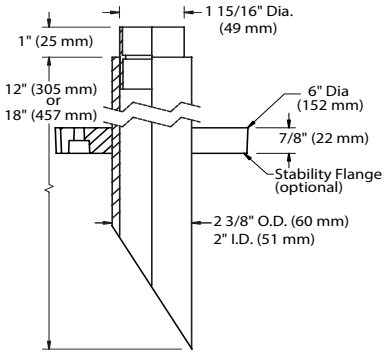
Type : LT-5

POWER PIPE

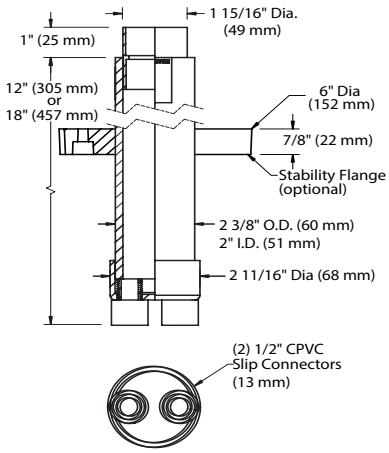
ORDER FIXTURE SEPARATELY.

DATE: | PROJECT: | TYPE:

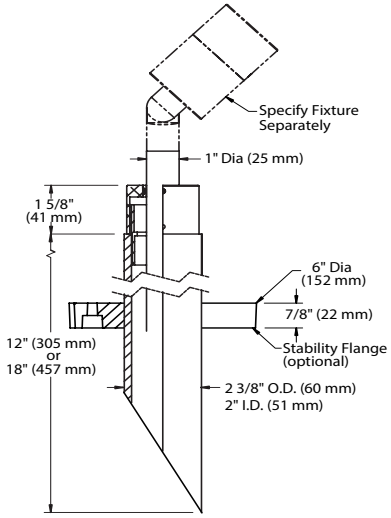
STAKE (S)



JUNCTION (J)

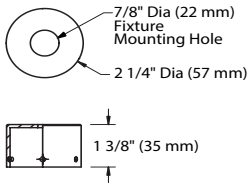


ADJUSTABLE STEM (A)

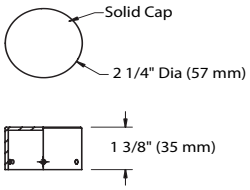


CAP STYLES

'B' Cap (Single Hole)

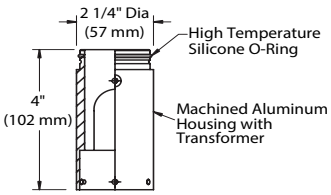


'C' Cap (Solid Cap)



TRANSFORMER

Transformer with Housing



STANDARD FINISHES

Satin Black (BLP)	Satin Bronze (BZP)	Satin White (WHP)	Satin Aluminum (SAP)
Black Wrinkle (BLW)	Bronze Wrinkle (BZW)	White Wrinkle (WHW)	Verde (VER)

Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES

Cascade Mtn. Granite (CMG)	Rocky Mtn. Granite (RMG)	Sierra Mtn Granite (SMG)	Aleutian Mtn Granite (AMG)	Textured Forest (TXF)
Black Chrome (BCM)	Beige (BGE)	Weathered Copper (WCP)	Old Copper (OCP)	Hunter Green (HUG)
Antique Brass Powder (ABP)	Brown Patina Powder (BPP)	Sonoran Desert Sandstone (SDS)	Weathered Iron (WIR)	Clear Anodized Powder (CAP)
Cream (CRM)	Antique White (AQW)	Natural Brass Powder (NBP)		

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12/06/2022 SKU-449

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : PP-J18-FINISH-B-SF
Notes : FINISH TO BE DETERMINED

Type : LT-5

POWER PIPE

ORDER FIXTURE SEPARATELY.

DATE:	PROJECT:	TYPE:

Accessories (Configure separately)

SPECIFICATIONS

Electrical	WIRING	Teflon® coated wire, 18AWG, 600V, 250° C rated and certified to UL 1659 standard. Adjustable stem mount additionally includes 24" or 36" 12/2 direct burial low voltage cable.
	TRANSFORMER HOUSING	Fully machined from copper-free aluminum, solid machined brass or stainless steel. Stainless steel hardware. High temperature, silicone 'O' Ring provides watertight seal.
	ELECTRONIC TRANSFORMER	For use with halogen lamps. 120V, 230V, and 277V primary voltage. 120V is fully dimmable (40W minimum load). 50/60Hz. 11.6V secondary voltage. 10W minimum load (halogen) non-dimmed. 75 watt maximum load. >0.93 Power Factor. <20% THD. Operating frequency >10kHz. Soft start circuitry to extend lamp life.
	TRe20 ELECTRONIC TRANSFORMER	For use with solid state 12V systems. 105-300VAC primary voltage. 50/60Hz. Non-dimming. 20VA maximum load.
PHYSICAL	INSTALLATION	Provides a clean, architectural transition from wiring system to fixture. 2" Schedule 80 PVC pipe. For direct burial in soil or concrete. Available in 12" and 18" lengths. Available in three installation types:
	STAKE (TYPE S)	60° angled bottom designed for use with conduit or direct burial low voltage cable.
	JUNCTION BOX (TYPE J)	Includes two (2) 1/2" PVC slip connectors for branch circuit wiring.
	ADJUSTABLE STEM (TYPE A18)	18" field adjustable stem accommodates future landscape growth. Unused stem length remains hidden inside housing. Delrin bushing and stainless steel set screws lock mounting height.
	STABILITY FLANGE	Optional 6" diameter, molded stability flange simplifies installation and projects into substrate to simplify installation and reinforce housing stability.
	CAP STYLE	Machined from copper-free aluminum or machined brass.
	HARDWARE	Tamper-resistant, stainless steel hardware.
	FINISH	StarGuard, our 15-stage, chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	Certified to CAN/CSA/ANSI Standards. UL Listed. RoHS compliant. Made in USA with sustainable processes.

c UL us LISTED

RoHS

MADE IN THE USA

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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : HP2-LED-TR-X44-WFL-FINISH-10-ELV-MT
Notes : FINISH TO BE DETERMINED

Type : LT-6

HP2 LED (INTEGRAL DRIVER) — IP68 RATED

DATE:	PROJECT:	TYPE:

CATALOG NUMBER LOGIC:

**Only available with x58-x63*

***Only available with x43-x45, x70-x71, & x76*

****Select up to 2. Accessory Holder required.*

*****120V*

******Aluminum only.*

CATALOG NUMBER LOGIC		
Example: HP2 - LED - TR - x61 - SP - SAP - 10/11 - INC - MT - AH - TC		
MATERIAL		
(Blank) - Aluminum	B - Brass	S - Stainless Steel
SERIES		
HP2 - In-grade with Flush Mounted Faceplate		
OptiLock®		
LED - Cold Phosphor Technology		
HOUSING		
TR - Integral Housing		
LED TYPE		
x58 - 12W LED/2700K	x62 - 20W LED/3000K	x45 - 34W LED/4000K
x59 - 12W LED/3000K	x63 - 20W LED/4000K	x70 - 34W LED/2700K 90CRI
x60 - 12W LED/4000K	x43 - 34W LED/2700K	x71 - 34W LED/3000K 90CRI
x61 - 20W LED/2700K	x44 - 34W LED/3000K	x76 - 34W LED/3500K 80CRI
OPTICS		
SP - Spot (15°)*	FL - Flood (35°)*	
NFL - Narrow Flood (25°)**	WFL - Wide Flood (60°)	
FINISH (See page 2 for full-color swatches)		
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)		
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)		
Also available in RAL Finishes		
Brass Finishes (MAC, POL, MIT)		
Stainless Steel Finishes (MAC, POL)		
ACCESSORY***		
10 - Spread Lens		
11 - Honeycomb Baffle		
12 - Soft Focus Lens		
13 - Rectilinear Lens		
CONTROL TYPE		
ELV - Dimming Driver (For use with Electronic Low Voltage Dimmer)****		
INC - Dimming Driver (For use with Incandescent Dimmer)****		
010 - 0-10V Dimming Driver (Dimming 1 - 100%)		
INPUT VOLTAGE		
MT - 120/208/240/277 Multi Tap		
OPTIONS		
AH - Accessory Holder		
TC - Traction Control Lens		
GM-R - Round Grout Mask		
GM-S - Square Grout Mask		
GS - Glare Shield*****		
HD - Half Dome*****		
RG - Rock Guard****		
RO - Rock Guard with Optical Opening*****		

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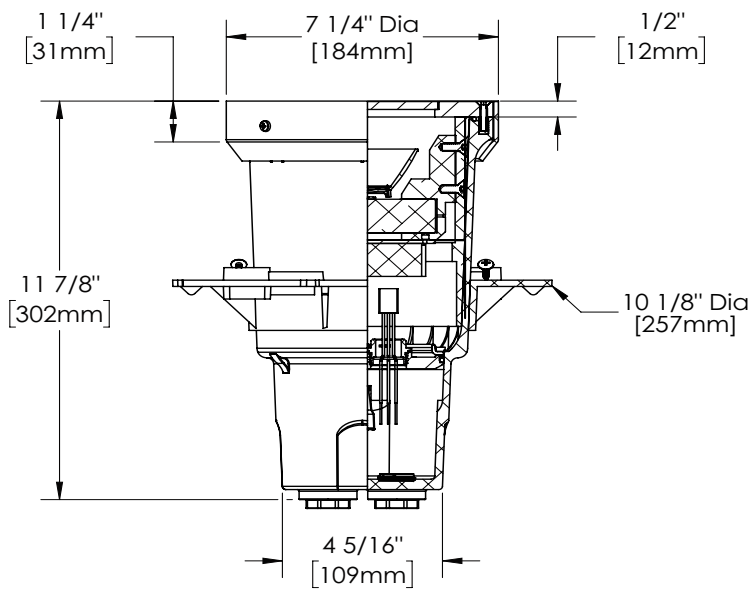
11/10/2023 SKU-879
SUB-2405-00

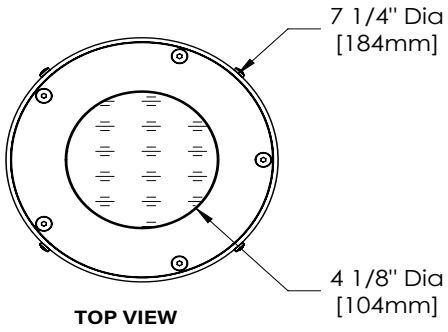
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : HP2-LED-TR-X44-WFL-FINISH-10-ELV-MT
Notes : FINISH TO BE DETERMINED

Type : LT-6

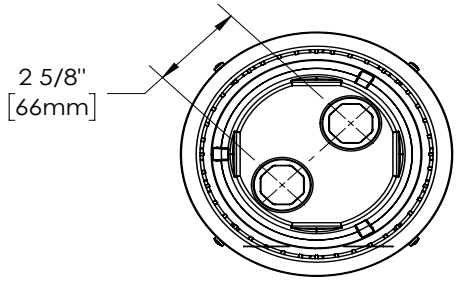
HP2 LED (INTEGRAL DRIVER) — IP68 RATED

DATE:	PROJECT:	TYPE:





TOP VIEW



BOTTOM VIEW

STANDARD FINISHES

Satin Black (BLP)	Satin Bronze (BZP)	Satin White (WHP)	Satin Aluminum (SAP)
Black Wrinkle (BLW)	Bronze Wrinkle (BZW)	White Wrinkle (WHW)	Verde (VER)

Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES

Cascade Mtn. Granite (CMG)	Rocky Mtn. Granite (RMG)	Sierra Mtn Granite (SMG)	Aleutian Mtn Granite (AMG)	Textured Forest (TXF)
Black Chrome (BCM)	Beige (BGE)	Weathered Copper (WCP)	Old Copper (OCP)	Hunter Green (HUG)
Antique Brass Powder (ABP)	Brown Patina Powder (BPP)	Sonoran Desert Sandstone (SDS)	Weathered Iron (WIR)	Clear Anodized Powder (CAP)
Cream (CRM)	Antique White (AQW)	Natural Brass Powder (NBP)		

B-K LIGHTING | **MADE IN THE USA** | **559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM**

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11/10/2023 SKU-879
SUB-2405-00

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : HP2-LED-TR-X44-WFL-FINISH-10-ELV-MT
Notes : FINISH TO BE DETERMINED

Type : LT-6

HP2 LED (INTEGRAL DRIVER) — IP68 RATED

DATE:	PROJECT:	TYPE:

Accessories (Configure separately)

SPECIFICATIONS

ELECTRICAL	WATTAGE	12W, 20W, or 34W
	WIRING / CONNECTORS	XLPE coated wire, (3)18 gauge and [(2)22 gauge- only included with 0-10V Dimming applications], 300V, 125°C rated and certified to UL3265 standard. Features OptiLock® and gear tray quick disconnects. Patented HydroLock® with three (3) Water-Tight connectors supplied for incoming connection. Maximum (2) #10 & (1) #18. Minimum (1) #12 & (1) #18.
	DRIVER ASSEMBLY	For use with [1] 700mA (12W/20W) / 1.05A (34W), constant current driver. 120-277VAC (nominal) primary input voltage. 50/60Hz. >0.90 Power Factor, <250mA in-rush current, .20%THD (nominal at 120VAC full load), with output over-voltage, over-current, and short circuit protection with auto recovery. Class 2 power supply; FCC47CFR Part 15 Compliant Class B (120VAC)/Class A (277VAC). Incandescent Control Option Driver: Dimming driver for use with standard incandescent dimmers at 120VAC(10-100% range). ELV/0-10 Control Option Driver: Dimming driver for use with standard electronic low voltage (120VAC only - 10-100% dim. range)/0-10V dimmers (1-100% dim. range).
PHYSICAL	FIXTURE HOUSING	Corrosion-free, high strength, flame retardant and UV stabilized, injected molded polycarbonate. Two (2) bottom-entry, 3/4" NPT female conduit entries with knockout plugs and four (4) side flats for 1/2" or 3/4" conduit adapters.
	PATENTED STABILITY FLANGE	Corrosion-free composite flange projects into installation substrate to reinforce housing stability. Integral REBAR saddles simplify installation into concrete form. Four (4) orthogonal bosses permit use of 1/2" PCV conduit or EMT to simplify vertical position and leveling of housing. Preset self-tapping screws anchor housing at proper elevation.
	AIMING	Dual axis heat sink system rotates 360° and provides vertical adjustment up to 15° from nadir. Positive lock action ensures optical orientation.
	COLOR MANAGEMENT	Corrected cold phosphor technology delivers near-perfect natural white light. Long term phosphor maintenance over product life. Exact color point conformity exceeds ANSI C78.377 standard. Provides uniform beam with no color variation over angle. Module exceeds 80 CRI (RA>80, R9>16).
	OPTICS	Interchangeable, color-coded OPTIKIT modules permit field changes to optical distribution.
	INSTALLATION	For direct burial in soil or concrete. Consult Drainage Installation Guide for In-Grade Fixtures (DIG-IT) for compliance with proper soil preparation and drainage requirements prior to installation.
	WATER MANAGEMENT	High temperature silicone 'O' Ring at faceplate. HydroLock® technology provides fail-safe water barrier between junction box and interior components. IP68 rated.
	LENS	High heat, Shock-resistant, 1/4" Tempered Soda Lime glass lens.
	FACEPLATE	Options include solid, 1/2" machined 6061T6 aluminum, brass or stainless steel with five (5) black oxide, captive, stainless steel mounting screws.
	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant.
	WARRANTY	5-year limited warranty.
c UL us LISTED RoHS MADE IN THE USA	CERTIFICATION & LISTING	UL Listed. Certified to CAN/CSA/ANSI Standards. IP68 Rated. Made in the USA with sustainable processes.

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11/10/2023 SKU-879
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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : B K LIGHTING
Model Number : HP2-LED-TR-X44-WFL-FINISH-10-ELV-MT
Notes : FINISH TO BE DETERMINED

Type : LT-6

LAMP & DRIVER DATA (x58, x59, x60, x61, x62, x63, x43, x44, x45)

DATE:	PROJECT:	TYPE:

DRIVER ELECTRICAL DATA

Type	AC Input Range	Frequency Hz	Power Factor At Full Load (Efficiency)	THD	Operation Ambient Temperature	Dimmer Type	Dimmer Range
ELV	105-305Vac	50/60	> 0.90	≤20%	-30° C ~ 70°C	Electronic Low Voltage	10-100%
INC	105-305Vac	50/60	> 0.90	≤5%	-30° C ~ 50°C	Incandescent	10-100%
0-10	105-305Vac	50/60	> 0.90	≤20%	-30° C ~ 70°C	0-10	1-100%

LM79 DATA				L70 DATA	OPTICAL DATA		
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})	Angle	CBCP	Delivered Lumens
x58	2700K	80	12W	50,000	15°	3877	724
	2700K	80	12W	50,000	35°	1498	663
	2700K	80	12W	50,000	60°	629	625
x59	3000K	80	12W	50,000	15°	4059	758
	3000K	80	12W	50,000	35°	1568	694
	3000K	80	12W	50,000	60°	659	655
x60	4000K	80	12W	50,000	15°	4561	851
	4000K	80	12W	50,000	35°	1762	780
	4000K	80	12W	50,000	60°	740	736
x61	2700K	80	20W	50,000	15°	7098	1306
	2700K	80	20W	50,000	35°	2621	1124
	2700K	80	20W	50,000	60°	1048	1063
x62	3000K	80	20W	50,000	15°	7488	1378
	3000K	80	20W	50,000	35°	2765	1186
	3000K	80	20W	50,000	60°	1106	1121
x63	4000K	80	20W	50,000	15°	7800	1435
	4000K	80	20W	50,000	35°	2880	1235
	4000K	80	20W	50,000	60°	1152	1168
x43	2700K	80	34W	50,000	25°	5435	1915
	2700K	80	34W	50,000	60°	2697	1860
x44	3000K	80	34W	50,000	25°	5672	1998
	3000K	80	34W	50,000	60°	2814	1941
x45	4000K	80	34W	50,000	25°	5908	2081
	4000K	80	34W	50,000	60°	2931	2022

OPTICS

Optic	Angle
Spot	15°
Narrow Flood	25°
Flood	35°
Wide Flood	60°

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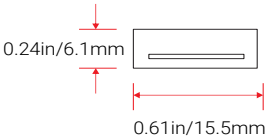
Aqueon® Flat RGB/RGBW

24V DC



A new standard of flexible light; superior standards new materials, new methods, military grade components and advanced circuit design to create a flood proof; vibration proof seamless light. Our constant current design ensures to maintain a full illumination in continuous lengths up to 49ft. IP67 connections. Premium Nichia LEDs. Single bin for accurate color rendering, minimal color shift and exceptional color consistency, with a CRI of 95. Full dimmable.

FEATURES

- Wet Location; UL Listed, 1598
- Vertical Bending
- End to end continuous illumination
- Up to 49.2ft(15m) continuous runs
- Cuttable every 3.25"(82.6mm)
- Static RGB and RGBW options
- RGBW's White LED is available in 2700K, 3000K and 4000K
- 2"(50mm) minimum bending diameter; 1"(25mm) minimum bending radius
- 5 year limited warranty; 60,000 hrs white, 100,000 hrs color LED lifetime
- Dimmable with Pulse Width Modulation & DMX
- UV/IR protected Silicone Injection Mold
- Ambient working temperature -40°F~131°F (-40˚C~55˚C)

PART NUMBER & SPECIFICATIONS

Aqueon® Flat RGB/RGBW

Part #	Color	CRI	lm/ft	lm/m	Max Run		W/ft	W/m
051629	RGB	>95	67	220	49.2ft	15m	1.83	6
051630	RGBW-27K	>95	67	220	49.2ft	15m	2.29	7.5
051631	RGBW-30K	>95	67	220	49.2ft	15m	2.29	7.5
051632	RGBW-40K	>95	67	220	49.2ft	15m	2.29	7.5

ORGANIC LIGHTING

Project

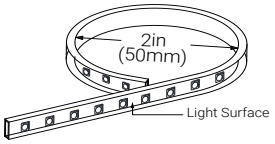
Date

ANTI-WICKING

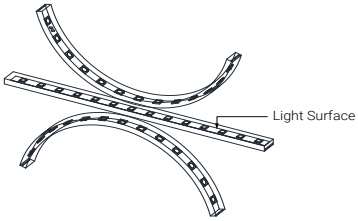
All connections include a ferrule on the power feed to prevent water wicking through the connection point.

VERTICAL BENDING

Minimum bend diameter 2in (50mm).



The light can only be bent along the light surface.



Do not bend smaller than allowed minimum bend diameter.

Aqueon® Flat RGB/RGBW

ORGANIC LIGHTING

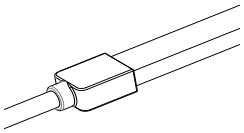
Project

Date

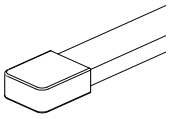
CONNECTORS & ACCESSORIES

Aqueon IP67 accessories include end caps, extension cords and connectors with customizable cord lengths. Snap accessories are field installable.

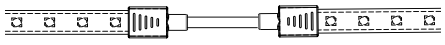
FACTORY ASSEMBLED IP68 CONNECTORS



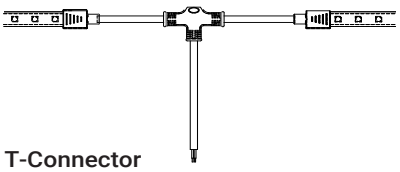
End Connector, 16'L (4.9m)
#051656-CU16



End Cap
#051686

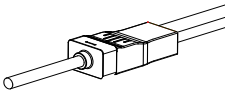


Extension
#051659

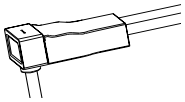


T-Connector
#051658

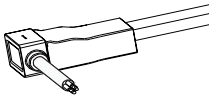
FIELD ASSEMBLY SNAP ON IP67 CONNECTORS



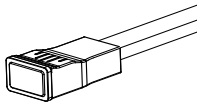
End Snap Connector, 16'L (4.9m)
#051666S-CU16



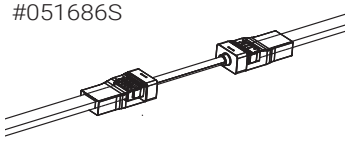
Bottom Snap Connector, 16'L (4.9m)
#051605S-CU16



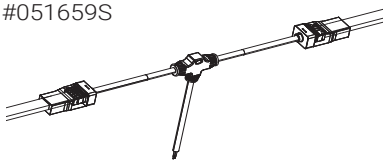
Side Snap Connector, 16'L (4.9m)
#051606S-CU16



Snap End Cap
#051686S



Snap Extension
#051659S



Snap T-Connector
#051658S

Aqueon® Flat RGB/RGBW

POWER SUPPLIES, MOUNTINGS & EXTRUSIONS

ORGANIC LIGHTING

Project

Date

POWER SUPPLIES - 24V

Forward Phase, Reverse Phase, & 0-10V Dimming Drivers. Remote enclosures available.

Part #	Ingress	Voltage	Wattage	Dimensions (inches / mm)	Description
045001	IP67	100-305V	20W	7.6 x 1.18 x 0.79 /193 x 30 x 20	Dimmable LED Driver
045002	IP67	100-305V	40W	5.83 x 1.57 x 0.87/148 x 40 x 22	Dimmable LED Driver
045003	IP67	120-277V	60W	6.3 x 2.24 x 1.5/160 x 57 x 38	Dimmable LED Driver
045004	IP67	120-277V	75W	6.3 x 2.24 x 1.5/160 x 57 x 38	Dimmable LED Driver
045005	IP67	120-277V	96W	7.6 x 2.24 x 1.5/193 x 57 x 38	Dimmable LED Driver
045006	IP67	120-277V	200W	10.1 x 3.03 x 1.8/257 x 77 x 46	Dimmable LED Driver
045007	IP67	120-277V	300W	11.9 x 3.03 x 1.8/302 x 77 x 46	Dimmable LED Driver

20W-60W Dimmable Driver

75W-300W Dimmable Driver

ENCLOSURES

Part #	Ingress	Dimensions (inches / mm)	Description
045008	IP67	9.4 x 2.6 x 1.9 / 239 x 66 x 48	20W Enclosure
045009	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	40W Enclosure
045010	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	60W Enclosure
045011	IP67	11.02 x 4.05x 2.2 / 280 x 103 x 56	75W Enclosure
045012	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	96W Enclosure
045013	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	200W Enclosure
045014	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	300W Enclosure

DMX512 SPI Converter Decoder

DMX CONTROLLER

Part #	Description
011343	100W Digital Controller
011344	180W Digital Controller
011345	720W Digital Controller
011341	Digital Controller & Power Supply Combination
011420	Nicolaude DE3 DMX 512 Controller
011403	Nicolaude DINA-DR1 DMX 512 Controller
050203	LT-200 SPI Controller - For Pixel
050205	DMX512 SPI Converter Decoder - For Pixel

LT-200 SPI Controller

MOUNTINGS & EXTRUSIONS

Mounting Channels to Match any Installation

Aluminum Channel

- High Quality Aluminum
- Lightweight
- Cost Effective

39.37in(1000mm) L - #051694

Clear Lensed Channel, 1/2" H

- Light-weight
- Easy to Install & Dismantle
- 1/2" High, 3/4" available
- Clear lens, frosted lens available.

39.37in(1000mm) L - #051695

Clear Lensed Channel, 3/4" H

- Light-weight
- Easy to Install & Dismantle
- 1/2" High, 3/4" available
- Clear lens, frosted lens available.

39.37in(1000mm) L - #51696

Frosted Lensed Channel, 1/2" H

- Light-weight
- Easy to Install & Dismantle
- 1/2" High, 3/4" available
- Clear lens, frosted lens available

39.37in(1000mm) L - #051697

Frosted Lensed Channel, 3/4" H

- Light-weight
- Easy to Install & Dismantle
- 1/2" High, 3/4" available
- Clear lens, frosted lens available

39.37in(1000mm) L - #51698

PVC Mounting Channel

- Light-weight
- Self adhesive

48in(1219mm) L - #037006

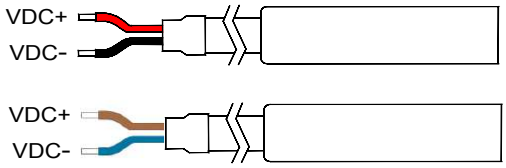
Aqueon® Flat RGB/RGBW

ORGANIC LIGHTING

CABLE REQUIREMENT

The Aqueon® LED strips need a minimum voltage at the beginning of the LED strip to function according to the specifications. The table below gives an indication of the maximum cable length based on the cable thickness. The standard starter cable (20 AWG) has a cable length of 16ft(4.88m).

In case the required length is longer than the length mentioned in this cable, it is recommended to cut the starter cable down to 1ft and splice a larger gauge cable. Please contact your distributor for a detailed cable calculation.



Cable X Information	LED Strip	Max. Cable Length
20 AWG x 2	3.28 ft/1m	303 ft/92.35m
	16.4 ft/5m	57 ft/17.37m
	32.8 ft/10m	36 ft/11m
18 AWG x 2	3.28 ft/1m	457 ft/139.3m
	16.4 ft/5m	86 ft/26.21m
	32.8 ft/10m	56 ft/17.07m
16 AWG x 2	3.28 ft/1m	914 ft/278.59m
	16.4 ft/5m	172 ft/52.43m
	32.8 ft/10m	90 ft/27.43m
14 AWG x 2	3.28 ft/1m	1521 ft/463.60
	16.4 ft/5m	287 ft/87.48m
	32.8 ft/10m	140 ft/42.67m

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : STONCO
Model Number : LPW-16-30-WW-G3-3-UNV-FINISH
Notes : FINISH TO BE DETERMINED

Type : W1

Stonco
by signify

Wall mount
LytePro
LPW16 medium wall sconce

Stonco LytePro LED medium wall sconce LPW16 features outstanding value in a compact, architectural design. This powerful and precise combination offers outstanding energy savings with excellent photometric performance. LPW16 is ideal for entryways and corridors in addition to wall lighting applications requiring strong lateral spacing and forward pattern projection.

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

Ordering guide

Example: LPW16-20-NW-G3-3-120-PCB-BZ

					Options		
Prefix	**Wattage**	**LED Color/Gen**	**Distribution**	**Voltage**	**Photocontrol**	**Location**	**Finish**
LPW16							
LPW16 LytePro 16 LED medium wall sconce	**20** 20W **30** 30W **50** 50W	**NW-G3** Neutral White 4000K 70 CRI Generation 3 **WW-G3** Warm White 3000K 70 CRI Generation 3	**2** Type 2 **3** Type 3 **4** Type 4	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)	**---** None **PCB** Photocontrol Button[1]	**BAC**[3] Meets the requirements of the Buy American Act of 1933 (BAA)	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: OC-LGP or OC-RAL7024) **CC** Custom color (Must supply color chip for required factory quote)

Stocked luminaires – Ordering guide

Catalog Number	Description	Master Pack, Qty	UPC Code
LPW16-G3-8-BZ	LPW16, 30W, 650mA, 4000K, Type 3, 120-277V, Bronze textured paint	6	622252813872
LPW16-G3-8-DGY	LPW16, 30W, 650mA, 4000K, Type 3, 120-277V, Dark gray textured paint	6	622252813865

Stocked accessories – Ordering guide (Must be ordered separately)[4]

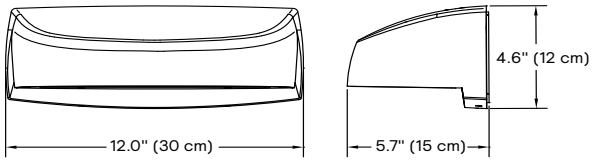
Catalog Number	Description	Master Pack, Qty	UPC Code
LPWCVRPLT-BZ[2]	LPW Universal wall cover mounting plate, Bronze textured paint	(none)	190096144860

[1] Must specify voltage. Not available in 347V or 480V.
[2] Other colors available upon request as made-to-order
[3] 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.
[4] Consult Signify to confirm whether specific accessories are BAA-compliant.

LPW16 LytePro

LED medium wall sconce

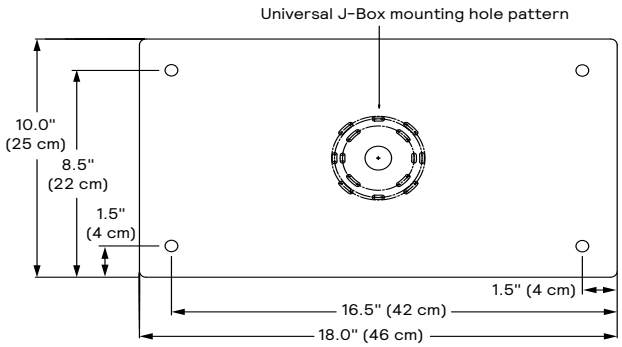
Dimensions



Luminaire weight: 6lbs (2.7 kg)

Accessory dimensions (ordered separately)

LPWCVRPLT-BZ LPW Universal wall cover mounting plate, 0.08" aluminum, bronze textured paint (used to cover larger pre-existing opening or surfaces, field installed). Offers same J-Box pattern as luminaire or may lagged to wall using (4) knockouts.



LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
LPW-16-20-NW-G3	16	400	4000	22	2,725	B1-U0-G1	122	2,668	B1-U0-G1	120	2,632	B1-U0-G1	118
LPW-16-30-NW-G3	16	650	4000	34	4,089	B1-U0-G1	119	4,003	B1-U0-G1	117	3,950	B1-U0-G1	115
LPW-16-50-NW-G3	16	900	4000	48	5,448	B1-U0-G1	114	5,334	B1-U0-G1	111	5,263	B1-U0-G1	110
LPW-16-20-WW-G3	16	400	3000	22	2,510	B1-U0-G0	113	2,457	B1-U0-G1	110	2,425	B1-U0-G1	109
LPW-16-30-WW-G3	16	650	3000	34	3,766	B1-U0-G1	110	3,687	B1-U0-G1	107	3,638	B1-U0-G1	106
LPW-16-50-WW-G3	16	900	3000	48	5,017	B1-U0-G1	106	4,912	B1-U0-G1	103	4,846	B1-U0-G1	102

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown.
Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.
NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

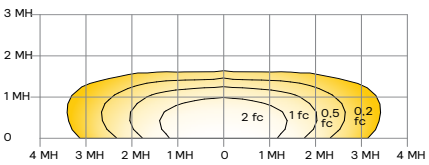
Predicted lumen depreciation data

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_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temperature °C	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
up to 40°C	>200,000 hours	>54,000 hours	>96%

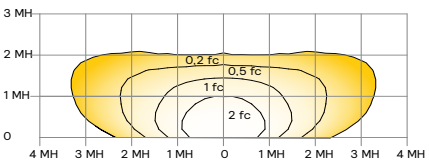
Optical distributions

Based on LPW16-30-NW-G3 at 15' mounting height



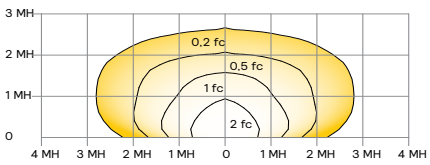
Type 2

LPW16 15' mounting height			
Mounting height	10 ft	12 ft	15 ft
Multiplier	1.29	1.14	1.00



Type 3

LPW16 15' mounting height			
Mounting height	10 ft	12 ft	15 ft
Multiplier	1.57	1.34	1.00



Type 4

LPW16 15' mounting height			
Mounting height	10 ft	12 ft	15 ft
Multiplier	1.46	1.27	0.87

LPW16 LytePro

LED medium wall sconce

General Description

LytePro LED medium wall sconce LPW16 combines excellent performance, design and value to meet the needs of the energy and budget conscious. The LPW16 is available for use in downward facing, surface wall mount applications, over recessed j-boxes or where power can be directly fed through back surface, whereby connections splices can be made inside the luminaire housing. Two SKU's are available as in-stock configurations only (2-day quick ship).

Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates an integrated heat sink to maximize thermal performance and reliability. Backplate is corrosion free, composite polycarbonate, with built-in level bubble, offers integral interlocking hook and mount design for easy installation.

Mounting

Easy interlocking hook and mount housing/ backplate design for easy installation. Mounts over 3.5", 4" octagonal j-boxes and single gang switch boxes or can be directly lagged to surface. Ensure proper steps for gasket/sealing luminaire to surface.

IP Rating

Optical compartment is IP65 rated sealed with tempered glass, gasket and frame.

LED Board and Array

Provides up to 104 lm/W at the system level. Standard color temp is 4000K or 3000K +/- 250K, minimum 70 CRI.

Electrical

Driver efficiency (>90% standard). 120-277V and 347-480V available. All drivers are dimmable. Temp range: -40°C (-40°F) to 40°C (104°F). Open/short circuit protection. Inherent surge protection up to (6KVA). RoHS compliant.

Surge protection (SP1): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA.

Listings

Product is cETLus listed suitable for Wet Locations. Suitable for use in ambients from -40°C to 40°C (-40°F to 104°F). DesignLights Consortium® qualified.

Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish.

Warranty

LPW16 luminaires, the LED arrays, and the drivers are all covered by a 5-year limited warranty. See www.signify.com/warranties for details.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

Signify

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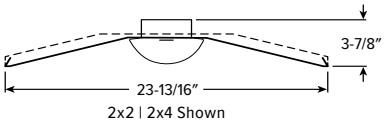
LT LED Troffer

Williams



2x2 | 2x4 Shown

CATALOG #:

TYPE:

PROJECT:

BUY AMERICAN ACT COMPLIANT | DLC LISTED | CCEA Approved | IP5X Rated | ISO 5 Class 100

FEATURES

- Low-profile depth for shallow plenum applications
- Diffuse lens provides smooth illumination for visual comfort
- Air return capability reduces number of unsightly ceiling vents for a cleaner appearance
- Surface mount kit preserves continuity
- Maximize energy savings with efficacies as high as 140 lm/W
- Rated for direct contact with insulation
- ISO 5-9 and IP5X rated for cleanroom applications
- Available on QuickShip
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING/REFLECTOR – Precision die-formed 22-gauge C.R.S.
- SHIELDING – Frosted acrylic.
- FINISH – Highly reflective non-glare matte white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. See fixture performance data for lumen maintenance.
- MOUNTING – NEMA Type "G" 15/16" or 1" grid standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Surface mount and drywall kit accessories available, shipped separately, see options.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - IP5X rated.
  - ISO 5-9 rated.
  - City of Chicago Environmental Air approved when specified with CP option.
  - 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.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: LT - 24 - L52/835 - AF - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES
LT Static
LT-AR Air Return [2]

WIDTH
1 1′
2 2′

LENGTH
2 2′
4 4′

LUMENS [1]

1x2
L20 2,000lm
L31 3,100lm
L40 4,000lm

1x4
L28 2,800lm
L47 4,700lm
L63 6,300lm
L90 9,000lm

2x2
L27 2,700lm
L39 3,900lm
L49 4,900lm
L61 6,100lm

2x4
L40 4,000lm
L52 5,200lm
L64 6,400lm
L82 8,200lm
L110 11,000lm

CRI
8 80
9 90 [3]

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K

SHIELDING
AF Frosted acrylic

OPTIONS [4]

EM/10W	10-watt emergency battery [6]
EM/10WRM	Remote mount 10-watt emergency battery
EM/12W	12-watt emergency battery [7]
EM/12WRM	Remote mount 12-watt emergency battery [8]
EQCLIPS	Earthquake clips [9]
(L__)	Additional lower lumen packages available. [10] Example: 5,800 lumens = LT-24-L64/840-**(L58)**
CP	Chicago Plenum (CCEA)
LT-14-SMK-W	Surface mount kit, 1′x4′, white
LT-22-SMK-W	Surface mount kit, 2′x2′, white
LT-24-SMK-W	Surface mount kit, 2′x4′, white
DFK-1224W	Drywall kit, 12″ x 24″, white
DFK-1248W	Drywall kit, 12″ x 48″, white
DFK-2424W	Drywall kit, 24″ x 24″, white
DFK-2448W	Drywall kit, 24″ x 48″, white

CONTROL [5]

See page 6 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [11]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor [12]
AWNR	Lutron Athena wireless node integral fixture control, RF only [13]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [14]

DRIVER

See page 7 for ADDITIONAL DRIVER OPTIONS.

DIM Driver with external dimming wires
DRV Driver without external dimming wires
DA Driver with 12V auxiliary power, without external dimming wires [15]
DSR Sensor-ready driver without external dimming wires (D4i DALI-2) [16]

VOLTAGE
120 120V
277 277V
UNV 120-277V
347 347V [17]

QUICKSHIP

1x4	2x2	2x4
LT-14-L47/835-AF-QS-DIM-UNV	LT-22-L39/835-AF-QS-DIM-UNV	LT-24-L40/835-AF-QS-DIM-UNV
LT-14-L47/840-AF-QS-DIM-UNV	LT-22-L39/840-AF-QS-DIM-UNV	LT-24-L40/840-AF-QS-DIM-UNV
		LT-24-L64/835-AF-QS-DIM-UNV
		LT-24-L64/840-AF-QS-DIM-UNV

NOTES

1. Lumens based on 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
2. Air return through side slots. Not available with surface mount or CP option. Not qualified for IP5X, ISO 5-9, or IC ratings.
3. Extended lead times may apply. Consult factory for availability.
4. See page 3 for FLEXIBLE WHIP OPTIONS. See page 3 for SURFACE MOUNT KIT DETAILS. See page 3 for SURFACE MOUNT KIT DETAILS. See Technical Info for Power Entry details.
5. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 4 for SENSOR & NODE PLACEMENT DETAILS.
6. Not available with 1x2 L40 or 2x2 L61 lumen packages.
7. Not available with 1x2 L40 or 2x2 L61 lumen packages. Not available when CEC regulations are required.
8. Not available when CEC regulations are required.
9. 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting; LT is compatible with Williams earthquake clips only.
10. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
11. DA Driver only.
12. DA Driver only.
13. DA and DSR Drivers only.
14. DA and DSR Drivers only.
15. Avi-on, Lutron Athena, and ZLSO5 Controls only.
16. Lutron Vive and Athena Controls only.
17. Not available with EM batteries, DA, or DSR drivers.

LT LED Troffer

FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	LUMEN MAINTENANCE [1]			
					L70	L80	L85	L90
1x2	L20	2011	17.4	116	>72,000	62,000	45,000	29,000
	L31	2985	23.5	127	>72,000	>72,000	63,000	42,000
	L40	3840	32.9	117	>72,000	62,000	45,000	29,000
1x4	L28	2814	21.4	131	>72,000	>72,000	63,000	42,000
	L47	4677	33.7	139	>72,000	>72,000	63,000	42,000
	L63	6261	48.5	129	>72,000	>72,000	63,000	42,000
	L90	9060	66.8	136	>72,000	>72,000	63,000	42,000
2x2	L27	2722	21.3	128	>72,000	>72,000	63,000	42,000
	L39	3934	33.1	119	>72,000	62,000	45,000	29,000
	L49	4869	38.1	128	>72,000	>72,000	63,000	42,000
	L61	6136	50.9	121	>72,000	62,000	45,000	29,000
2x4	L40	3972	32.0	124	>72,000	62,000	45,000	29,000
	L52	5202	37.2	140	>72,000	>72,000	63,000	42,000
	L64	6396	48.5	132	>72,000	>72,000	63,000	42,000
	L82	8214	64.3	128	>72,000	>72,000	63,000	42,000
	L110	11065	81.8	135	>72,000	>72,000	63,000	42,000

MULTIPLIER TABLE

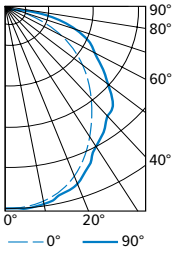
	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, wattage for 120V through 277V 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 table to calculate additional options.

[1] Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.

PHOTOMETRY

LT-24-L52/835-AF-DIM-UNV Total Luminare Output: 5202 lumens; 37 Watts | Efficacy: 140 lm/W | 80 CRI; 3500K CCT

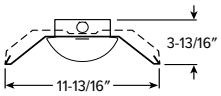


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	1851	1851	1851	
	5	1843	1844	1846	175
	15	1745	1761	1779	499
	25	1544	1589	1636	730
	35	1276	1359	1440	848
	45	1055	1193	1315	902
	55	741	902	1044	802
	65	480	667	817	647
	75	241	429	544	438
	85	70	174	159	161
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1404	27
	0 - 40	2252	43
	0 - 60	3955	76
	0 - 90	5202	100
	0 - 180	5202	100

CROSS SECTIONS

1x2



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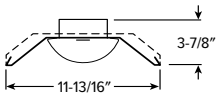
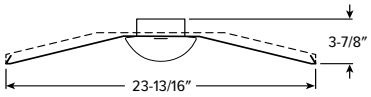
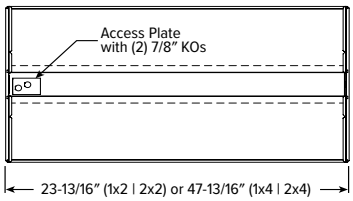


2x2 | 2x4

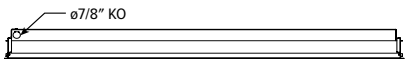


FIXTURE DETAILS

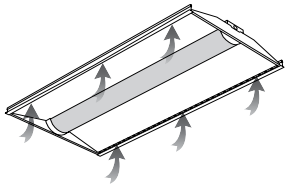
BACK VIEW



SIDE VIEW



AIR RETURN



Total Air Return Space:
12-1/2" sq. (1x2 and 2x2)
25-1/2" sq. (1x4 and 2x4)

LT LED Troffer

FLEXIBLE WHIP OPTIONS

All Williams recessed troffers are available with a flexible metallic wiring harness, factory-attached and hard-wired to the luminaire.

Straight connectors are a snap-in type. Consult factory for wiring harness utilizing connectors secured by lock nuts, optional flex size, lengths, and other wire sizes or circuitry. Three-wire flex utilizes black, white, and green wire. Four-wire flex utilizes black, white, red, and green wire. Adding an emergency option requires an additional wire.

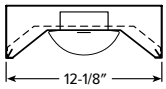
Williams fixtures are UL listed to provide factory-installation of several manufacturers' modular wiring devices, consult factory for availability and ordering information.

DESIGNATION	DESCRIPTION	DRIVER
F338	6′ of 3/8″ flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348	6′ of 3/8″ flex, (4) No. 18 AWG wires with (2) straight connectors	DRV + EM, SD40
F334	6′ of 3/8″ flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344	6′ of 3/8″ flex, (4) No. 14 AWG wires with (2) straight connectors	SD40
F358	6′ of 3/8″ flex, (5) No. 18 AWG wires with (2) straight connectors	DIM, DALI
F368Y	6′ of 3/8″ flex, (6) No. 18 AWG wires with (2) straight connectors	DIM, DIM + EM, DALI

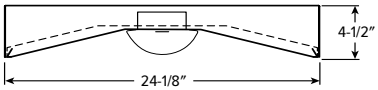
SURFACE MOUNT KIT DETAILS

CROSS SECTIONS

1x4

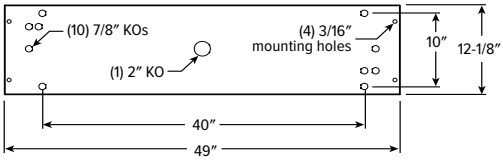


2x2 | 2x4

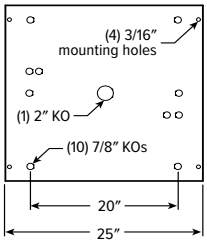


BACK VIEWS

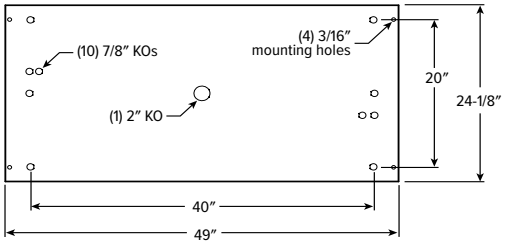
1x4



2x2



2x4



DRYWALL KIT (DFK) OPTIONS

ORDERING INFO

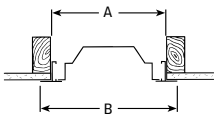
EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	12 1′	24 2′	W White
	12 1′	48 4′	AMW Anti-microbial white
	24 2′	24 2′	
	24 2′	48 4′	

INSTALLATION DIMENSIONS

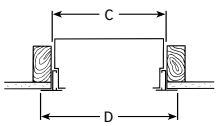
NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1′ x 2′	12-3/8″	24-3/8″	13-5/16″	49-5/16″
1′ x 4′	12-3/8″	48-3/8″	13-5/16″	49-5/16″
2′ x 2′	24-3/8″	24-3/8″	25-5/16″	25-5/16″
2′ x 4′	24-3/8″	48-3/8″	25-5/16″	49-5/16″

TYPICAL INSTALLATION

Refer to table for dimensions.



Width



Length

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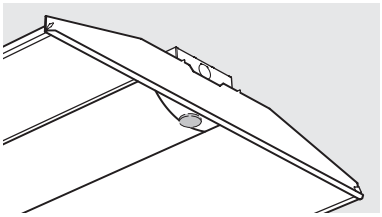
SENSOR & NODE PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL DETAILS.

LT LED Troffer

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

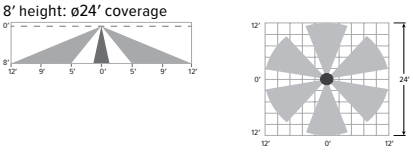
AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 10′
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On

SENSOR COVERAGE PATTERNS

Side View

8′ height: ø24′ coverage



SENSOR DETAIL

Dimensions: 13/16″ x 2-1/4″

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ADDITIONAL CONTROL OPTIONS

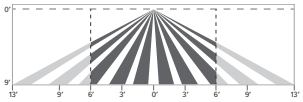
AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
TYPE	Radio Frequency
MOUNTING HEIGHT	8′ – 12′
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron

LUTRON

SENSOR COVERAGE PATTERNS

9′ height: ø12′ coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8′	114
9′	144
10′	178
12′	256

SENSOR DETAIL

Dimensions: ø1-1/8″

ATHENA CONTROL OPTIONS

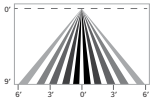
CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish.

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 12′
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9′ height: ø12′ coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8′	114
9′	144
10′	178
12′	256

SENSOR DETAIL

Dimensions: 2-11/16″ x 1″

VIVE CONTROL OPTIONS

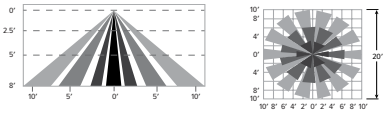
CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 12′
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

8′ height: ø20′ coverage



SENSOR DETAIL

Dimensions: ø1-5/16″

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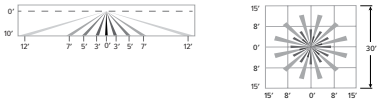
LV-ZLS05-ILW Leviton PIR motion and daylight sensor. DA Driver only. Adjustable via remote. Optional ZLS0R-RA1 remote controller available.
ZLSOR-RA1 Remote controller for ZLS05 sensor. Please specify quantity required per project. Ordered and shipped separately.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 10′
DETECTION ANGLE	120°
TEMPERATURE RANGE	-20° to 70°C
COMMISSIONING	DIP switches or optional remote: ZLS0R-RA1

SENSOR COVERAGE PATTERNS

10′ height: ø24′ coverage



SENSOR DETAIL

Dimensions: ø1-5/16″

ADDITIONAL DRIVER OPTIONS

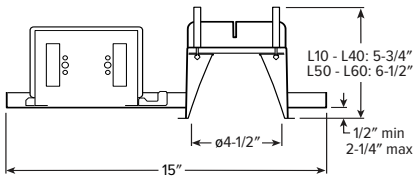
Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

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 only)
DA	Driver with 12V auxiliary power
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming driver

Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : HE WILLIAMS
Model Number : 4DR-TL-L15/840-DIM-UNV-OW-OF-CS-N-F1

Type : L-2

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 | TRIM | MOUNT.)

HOUSING

SERIES
- **4DR - TL** TrimLock

LUMENS [1]
- **L10** 1,000lm [2]
- **L15** 1,500lm
- **L20** 2,000lm
- **L30** 3,000lm
- **L40** 4,000lm
- **L50** 5,000lm
- **L60** 6,000lm

CRI
- **8** 80
- **9** 90 [3]

CCT
- **27** 2700K
- **30** 3000K
- **35** 3500K
- **40** 4000K
- **50** 5000K

OPTIONS
See page 3 for EMERGENCY BATTERY OPTIONS.
- **SCA_ _** Sloped ceiling adapter [4]
- **ATH** Airtight construction
- **F** Fuse
- **CP** Chicago plenum (CCEA) [5]
- **SDT** Stepdown transformer [6]

CONTROL
See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.
- **–** None
- **AVI-LVFA** Avi-on wireless fixture control [7]
- **AWNR** Lutron Athena wireless node integral fixture control, RF only [8]

DRIVER
See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.
- **DIM** Dimming driver, 0-10V
- **DIM1** 1% Dimming driver, 0-10V
- **DA** Driver with 12V auxiliary power, without external dimming wires [9]

VOLTAGE
- **UNV** 120-277V
- **347** 347V [10]

TRIM [11]

TRIM TYPE
- **O** Open reflector
- **L** Flush lens
- **R** Regressed lens
- **A** Angled lens [13]
- **S** Non-conductive flush lens for shower applications [14]

DISTRIBUTION [12]
- **W** Wide
  - 65° Open
  - 50° Flush
  - 50° Regressed
- **M** Medium [15]
  - 45° Open
  - 35° Flush
  - 30° Regressed
- **N** Narrow [16]
  - 10° Open
  - 25° Flush
  - 25° Regressed
- **WW** Wall wash [17]

FLANGE TYPE
- **OF** 1/2″ standard flange
- **SF** 1/4″ mud-in flange [18]

REFLECTOR FINISH

Open trim types
- **CS** Clear semi-specular anodize
- **SG** Satin-glow anodize
- **GD** Gold anodize
- **CG** Champagne gold anodize
- **PW** Pewter anodize
- **SPC** Clear specular anodize
- **RG** Rose gold anodize
- **WH** White texture powder coat
- **BL** Black texture powder coat

Lens trim types
- **CS** Clear semi-specular powder coat
- **WH** White texture powder coat
- **BL** Black texture powder coat
- **MB** Black texture splay with white flange [19]

TRIM OPTIONS
- **MWT** Smooth matte white trim flange [20]
- **IP** IP65 rated trim [21]
- **AD** Diffuse acrylic lens [22]
- **PD** Diffuse 1/8″ polycarbonate lens [23]
- **TD** Diffuse polycarbonate lens media at top of open reflector [24]
- **WET/CC** Wet location, covered ceiling listed [25]
- **AM** Anti-microbial [26]

MOUNTING

MOUNTING TYPE [27]
- **N** Open pan for new construction
- **I** IC-rated enclosure for new construction [29]
- **R** Remodel kit [30]

MOUNTING HARDWARE [28]
- **F1** Integral 2-position fixed pan bracket, universal bar hanger included [31]
- **BA1** Adjustable butterfly pan bracket, bar hanger not included [32]
- **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [33]

NOTES

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

4DR LED 4.5" Downlight – Round

FEATURES

- 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
- 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
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Low UGR meets LEED and WELL requirements
- Available on QuickShip
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

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
  - IC-rated for direct contact with insulation when specified with I Mounting Type.
  - City of Chicago Environmental Air approved when specified with CP option.
  - IP65 rated trim when specified with IP option.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - Title 24 (JA8) compliant in select configurations, see www.cacertappliances.energy.ca.gov.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

FIXTURE PERFORMANCE DATA

			OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
	DISTRIBUTION	WATTAGE	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	–	–	–	–

- Photometrics tested in accordance with IESNA LM-79. Results based on O Trim Type, W Distribution, CS Reflector 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.

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	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

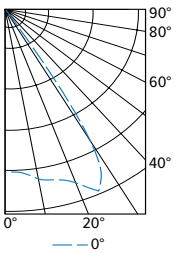
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC [2]	0.85

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

[1] Distribution will also be affected, consult factory.
[2] 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



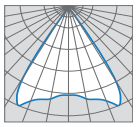
CANDLEPOWER DISTRIBUTION		
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1810	
5	1864	178
15	1960	556
25	2231	1033
35	307	193
45	44	35
55	11	10
65	1	1
75	0	0
85	0	0
90	0	

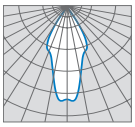
LUMEN SUMMARY			
ZONE	LUMENS	% FIXTURE	
0 - 40	1959	98	
0 - 60	2004	100	
0 - 90	2005	100	
0-180	2005	100	

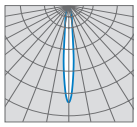
PHOTOMETRY CONTINUED ON NEXT PAGE.

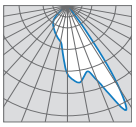
4DR LED 4.5″ Downlight – Round

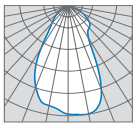
OPEN


65°

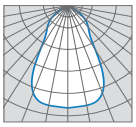

45°


10°


Wallwash


Angled Wallwash

FLUSH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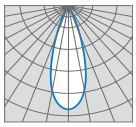
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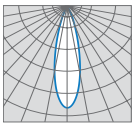
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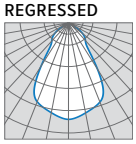
REGRESSED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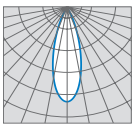
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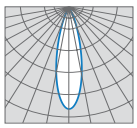

25°

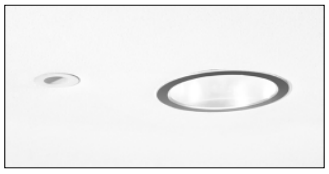
EMERGENCY BATTERY OPTIONS

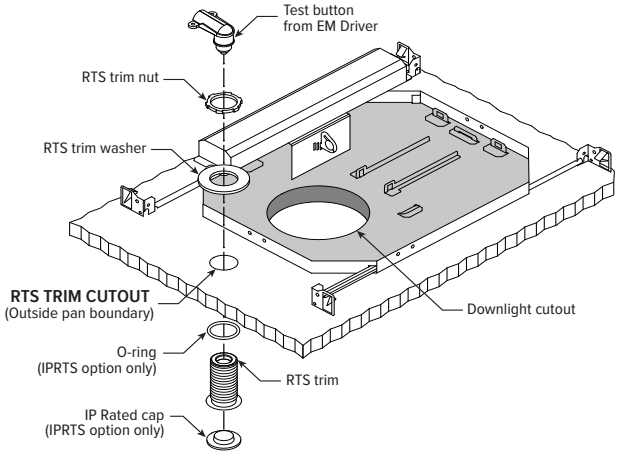
Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

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

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

REGRESSED TEST SWITCH DETAILS


Shown Installed



4DR LED 4.5″ Downlight – Round

APERTURE ADAPTOR ORDERING INFO

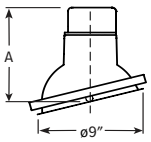
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	**CATALOG NUMBER**	**CEILING CUTOUT**	**FINISH**
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in 1/8″ increments. Example: 5.75″ = **0575** See Kit Components for application limits.	**CS** Clear semi-specular powder coat **WH**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

For use with remodel downlights.

Additional finishes available, consult factory.

For limitations and instructions, see hew.com/aperture-adaptor.pdf

SLOPED CEILING ADAPTOR DETAILS



Ceiling cutout: ø9-3/8″

LUMENS	A (HEIGHT) 5°	10°	15°	20°	25°	30°	PLENUM HEIGHT
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

TRIMLOCK DETAILS

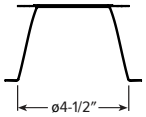
TWIST

PULL

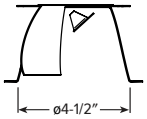
RELEASE

TRIM TYPE DETAILS

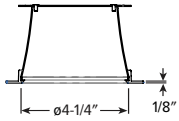
OPEN



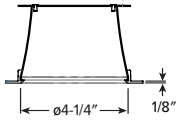
OPEN (WALL WASH)



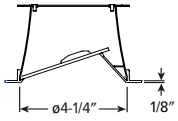
FLUSH



SHOWER



ANGLED



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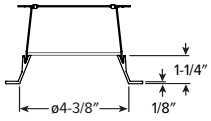
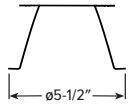


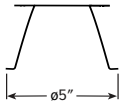
FLANGE TYPE DETAILS

1/2″ STANDARD



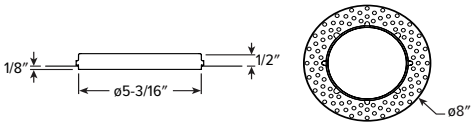
Ceiling Cutout: ø5″

1/4″ MUD-IN



Ceiling cutout: ø5-1/2″

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



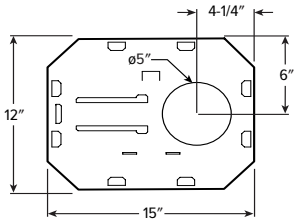
REFLECTOR FINISH DETAILS

SPC Clear specular	SG Satin glow	PW Pewter	GD Gold	CG Champagne gold	RG Rose gold	CS Clear semi-specular	WH White	BL Black

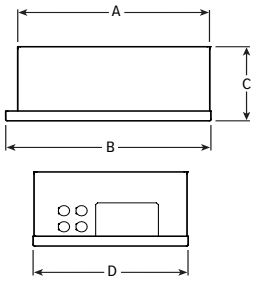
4DR LED
4.5″ Downlight – Round

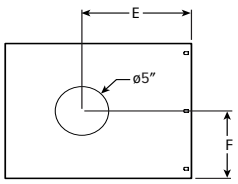
MOUNTING TYPE DETAILS

NEW CONSTRUCTION



IC-RATED

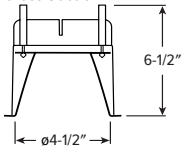




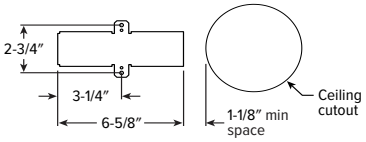
	LENGTH					
LUMENS	A	B	C	D	E	F
L10 - L20	15-3/16″	16″	6-3/8″	12-1/8″	9-1/2″	6-1/16″
L30	16-5/8″	17-1/2″	7-7/8″	14″	10-1/4″	7″

REMODEL

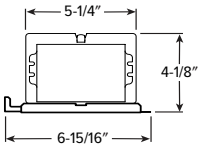
Cross Section



Receiver Bracket

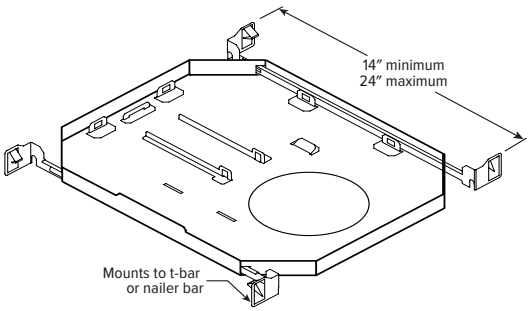


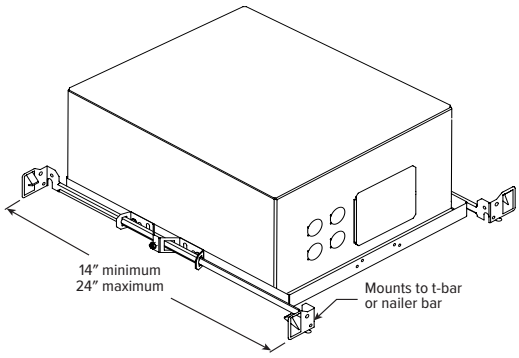
Driver and Junction Box



MOUNTING HARDWARE DETAILS

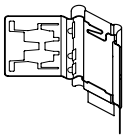
F1 Integral 2-position fixed pan bracket, universal bar hanger included



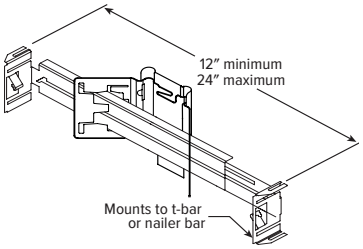


F1 with I Mounting Type

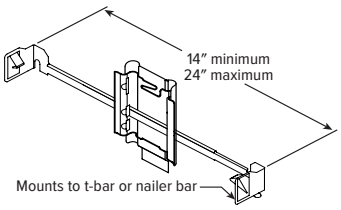
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



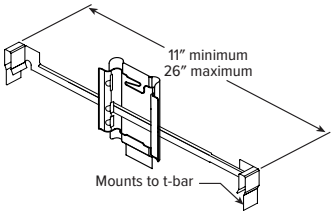
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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



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



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

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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

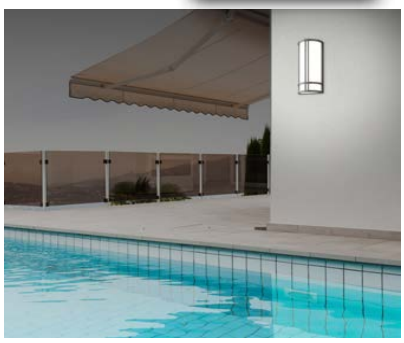
For load controllers and additional accessory info, see hew.com/avi-on

ADDITIONAL CONTROL/DRIVER OPTIONS

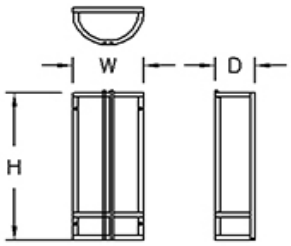
Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L50 max for DALI driver, L15 min to L60 max for DIM LINE driver. R mounting type requires top access with DMX controls. R Mounting Type not available with FCJS controls. R Mounting Type requires 12″ minimum plenum depth when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

S9130 Series



DIMENSIONS



W	H	D	MC	BASE MODEL NO.
7″	16″	4″	8″	**S9130-L24**
9″	20″	5 1/2″	10″	**S9131-L32**
9″	26″	5 1/2″	13″	**S9132-L34**

SPECIFICATIONS

Driver: 0-10V dimming to 1%, 120/277
Mounting: Mounts to all Standard Electrical Junction Boxes (by others) With Hardware Provided. Silicone Seal Required (by others).

FEATURES

- Opal Acrylic Lens
- Opal Acrylic Top & Bottom Lens
- Solid Bar Stock Material
- UL Listed for Wet Location
- LED 0-10V Dimming Driver

ORDER AS A COMPLETE UNIT:

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

S9130-L24 S9131-L32 S9132-L34	+	27K 30K 35K 40K	+	PT BA	+	Option

FINISHES

BA Brushed Aluminum
PT Powder Coated Finishes* **

*(Specify Color Code from the list of Powder Coating Finishes [except interior only metallics])

OPTIONS

BAC Buy America; Buy American Act; and Build America, Buy America Act Compliant.
EML Remote 10W Emergency LED Battery Backup

LIGHT OUTPUT

LXX = ~ 75 LPW Delivered Lumens (Example: L24= 24W x 75LPW = 1,800 Lumens)

** Try our new **Shimmer Metalic Paints**, Formulated for Exterior Conditions.

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Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : BEGHELLI USA
Model Number : BS101LEDECO-E-4-HT-HO-WT40-120-277V

Type : L-4

Type: _____

Project: _____

ILLUMINA®

BS101LED ECO E

- The **ILLUMINA® BS101LED ECO E** is an economical solution for wet location illumination and is corrosion, flame and vandal resistant.
- **HOUSING:** 100% UV stabilized polycarbonate, liquid silicone perimeter gasket with memory retention.
- **DIFFUSER:** The frosted UV stabilized polycarbonate diffuser eliminates glare and provides even light distribution.
- **LUMENS:**
  - 4000K: 4090 lm
  - 5000K: 4156 lm
- **OPERATING TEMP:**
  - HT (AC Only) -40°F to 104°F (-25°C to 40°C)
  - SA (AC & EM) 32°F to 104°F (0°C to 40°C)
- **WEIGHT:** 9 lbs / 4.08 kg

APPLICATION: The **ILLUMINA® BS101LED-ECO-E** provides ideal illumination for canopies, warehouses, schools, breeze-ways and service corridors. It can be installed both indoor & outdoor.

ORDERING INFORMATION

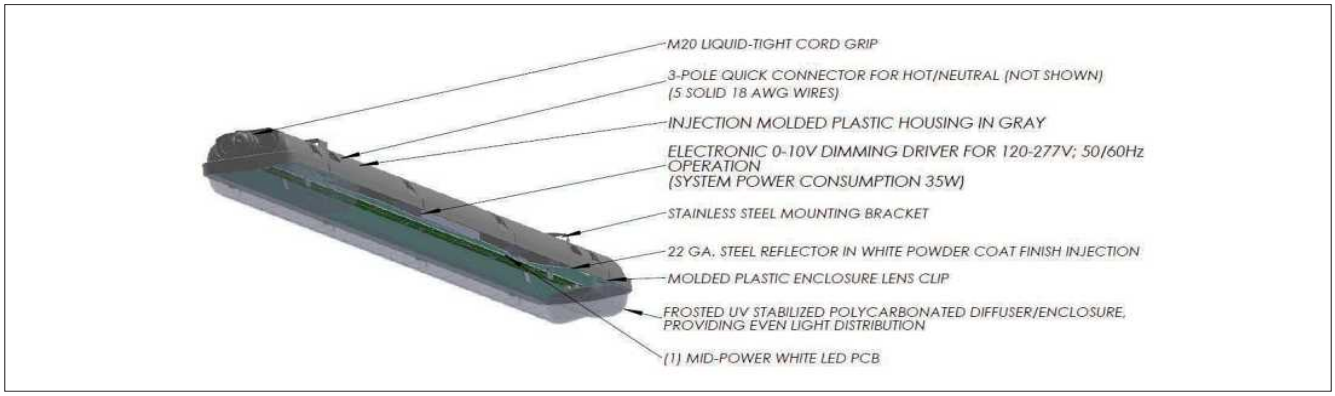
Example: BS101LEDECOE 4HTHOWT40 120-277

MODEL	LENGTH	OPERATION	OUTPUT	COLOR TEMP	INPUT	MOUNTING	OPTIONS	
BS101LED ECO E	4 (ft)	HT (AC only)	HO	WT40 (4000K)	120-277V	blank (surface mount standard)	FP (fuse protection - 3A)	SS (stainless steel clips)
		SA[1] (AC & EM)		WT50 (5000K)			SP (surge protection - 10 KA)	TPS (tamper proof screws)
						JM[2] (j-box mount)		

CONTROLS & ACCESSORIES		
1PKxWBS14[3,4] (single pivot kit, white x=length	2CH48[4] (48" chain hang kit, field cuttable)	QMBWBS14[5] (quick mount bracket)
1SPKxWBS14[3,4] (swivel pivot kit, white x=length	2PKxW[3,4] (double stem pendant mount kit, white)	TPB (tamper proof bits)
2ACx[4] (aircraft cable, x=length)	2SPKxW[3,4] (swivel double stem pendant kit)	TM22BS14[4] (trunnion mount)
	PM (pivot mount)	

NOTE 1: Emergency pack 120-277V; 10W/1170 lm.
NOTE 2: JM direct j-box mount maintains fixtur3e's IP66 rating
NOTE 3: Standard pendant lengths "x" = 12 (12"), 24 (24"), and 48 (48")
NOTE 4: Consult factory for non-standard lengths
NOTE 5: Quick Mount bracket requires JM mount

TECHNICAL INFORMATION



Beghelli www.beghelliusa.com 08/21/24

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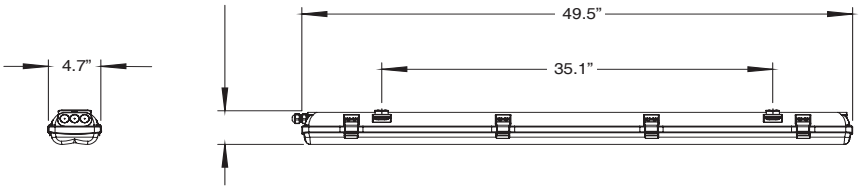
ILLUMINA® BS101LED ECO E

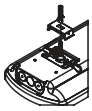
ADDITIONAL INFORMATION

DIMENSIONS



MOUNTING OPTIONS

Surface Mount (standard)

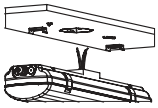


Aviation Cable Kit **(2AC50, 2AC72)**

Chain Hang Kit **(2CH48)**

Double Pendant Kit **(2PK12W, 2PK24W, 2PK48W)**

J-Box & Quick Mount Bracket Mount **(JM, QMBWBS14)**



J-box mount (damp location)

Quick mount bracket (wet location)

Magnet Mount Kit **MM**

Pivot Mount Kit **PM**

Single Pendant Kit **(1PKxWBS04 x=12", 24", 48")**

Swivel Double Pendant Kit **(2SPK12W, 2SPK24W, 2SPK48W)**

Swivel Single Pendant Kit **(1SPKxWBS04, x=12", 24", 48")**

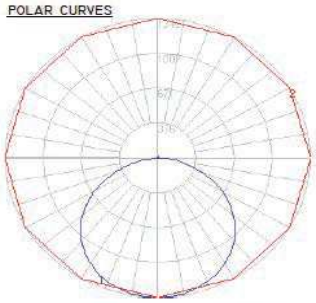
Trunnion Mount Kit **(TM22BS14)**

NOTE: When wall mounted, DAMP LOCATION LISTED

PHOTOMETRICS

BS101LEDECOE4HTHOWT40120-277V

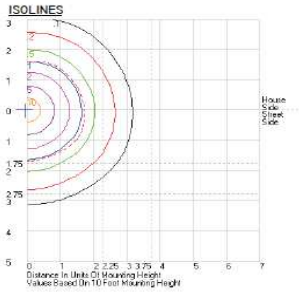
POLAR CURVES



Characteristics

Electronic driver	
LED 4000°K	
Lumens Per Lamp	4090 (1 lamp)
Total Lamp Lumens	4090
Luminaire Lumens	4090
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	35
Ballast Factor	1.00
CIE TypeDirect	

ISOLINES



Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0-20	495.51	12.10	12.10
0-30	1061.99	26.00	26.00
0-40	1758.93	43.00	43.00
0-60	3179.22	77.70	77.70
0-80	3997.38	97.70	97.70
0-90	4059.42	99.30	99.30
10-90	3932.03	96.10	96.10
20-40	1263.42	30.90	30.90
20-50	2002.43	49.00	49.00
40-70	1945.46	47.60	47.60
60-80	818.16	20.00	20.00
70-80	292.99	7.20	7.20
80-90	62.04	1.50	1.50
90-110	4.27	0.10	0.10
90-120	8.33	0.20	0.20
90-130	13.32	0.30	0.30
90-150	23.17	0.60	0.60
90-180	30.59	0.70	0.70
110-180	26.32	0.60	0.60
0-180	4090.00	100.00	100.00

Total Luminaire Efficiency = 100.00%

Coefficients Of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80			70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1		109	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2		98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3		90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4		82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	56	51	49
5		75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6		69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7		64	50	42	35	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8		60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9		56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10		52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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ILLUMINA® BS101LED ECO E

ADDITIONAL INFORMATION

ENERGY CHART

MODEL	LENGTH	EFFICACY	CONSUMPTION WATTAGE	LUMEN OUTPUT	CRI	L70 (HRS) PROJECTED
BS101LED-ECO-E4HT-HO-WT40-120-277V	4 ft	117 lm/W	35	4090	>80	>100,000
BS101LED-ECO-E4HT-HO-WT50-120-277V	4 ft	119 lm/W	35	4156	>80	>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			
BS101LED-ECO-HT-HO	35	0.30	0.13	50/60	45	700

DIMMER COMPATIBILITY

DIMMER	COMPATABILITY	
	ON/OFF	DIMMING
LEVITON - AWRMG-7	YES	YES
LUTRON - DIVE - DVSTV	YES	YES
LUTRON - DIVE - DVTV	YES	YES
WATT STOPPER - DCLV1	YES	YES

- WARRANTY: 5 years, see website for full warranty details.

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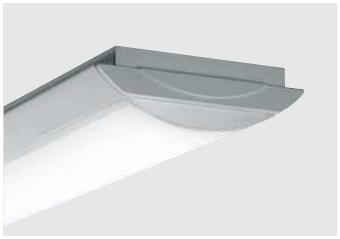
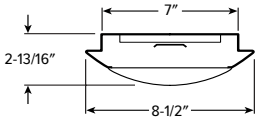
ASM LED Architectural Surface Mount





CATALOG #:

Type:

PROJECT:

FEATURES

- Fixture can be surface mounted or semi-recessed for ultra-low-profile look
- Aircraft cable or pendant mount fixture for additional mounting choices
- Decorative die-cast aluminum end caps provide high-end appearance
- Optional anti-microbial white finish available for use in healthcare applications
- Maximize energy savings with efficacies as high as 144 lm/W
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – .040″ die-formed aluminum with die-cast decorative end caps.
- SHIELDING – Ribbed acrylic diffuser.
- FINISH – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L85 >50,000 hours. 25°C maximum ambient operating temperature.
- MOUNTING – Semi-recessed in NEMA Type "G" ceiling, surface (ceiling or wall), or suspended.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - 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.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: ASM - 4 - L46/835 - P - F - A - AC(Y12)/D24 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES
ASM

LENGTH
4 4′
8 8′ [2]

LUMENS [1]
4′
L25 2,500lm
L46 4,600lm
8′
L50 5,000lm
L92 9,200lm

CRI
8 80
9 90 [3]

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K

MOUNTING TYPE
S Surface
P Suspended
R Semi-recessed [4]

FIXTURE TYPE
F Electrical feeder unit [5]
J Joiner unit [6]
S Stand-alone unit [7]

SHIELDING [8]
A Ribbed acrylic diffuser

MOUNTING (EXAMPLE: AC(Y12)/D24) [9]
ADJUSTABLE AIRCRAFT CABLE

Prefix	Type	Length
AC(Y12)/	**D** 1″ grid & hardpan	**24** 24″
	N 9/16″ grid	**48** 48″
	S Slot grid	**96** 96″

PENDANT MOUNT [13]
SS-__ Specify length in inches [14]

OPTIONS [10]
EM/10WLP Low-profile 10-watt emergency battery
AMW Anti-microbial white finish
(L__) Additional lower lumen packages available. Example: 3,500 lumens = ASM-4-L46/835-A-**(L35)** [11]
QC__ Quick-connect wiring harness. [12]

CONTROL
See page 4 for ADDITIONAL CONTROL/ DRIVER OPTIONS.
– None
AVI-LVFA Avi-on wireless fixture control [15]
AWNR Lutron Athena wireless node integral fixture control, RF only [16]

DRIVER
See page 4 for ADDITIONAL CONTROL/ DRIVER OPTIONS.
DIM Driver with external dimming wires
DRV Driver without external dimming wires
DA Driver with 12V auxiliary power, without external dimming wires [17]
DSR Sensor-ready driver without external dimming wires (D4i DALI-2) [18]

VOLTAGE
120 120V
277 277V
UNV 120-277V

NOTES

1. Lumen output based on 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. Ships with (2) 4′ lenses.
3. Extended lead times may apply. Consult factory for availability.
4. Available in stand-alone fixtures only.
5. Two end caps packed with fixture, quick-connect wiring harness. Suspended includes straight white cord standard. Wire gauge to be determined by row length.
6. Quick-connect wiring harness.
7. Two end caps included. Suspended includes straight white cord standard. Wire gauge to be determined by row length.
8. See page 2 for FIXTURE DETAILS.
9. See page 3 for MOUNTING DETAILS. Power cord provided with aircraft cables only. Specify with suspended mounting type only.
10. See page 3 for FINISH OPTIONS. Custom colors available upon request.
11. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
12. See page 3 for QUICK-CONNECT OPTIONS.
13. 3/8″ IPS Stem and ø5″ canopy.
14. 4″ minimum. Two stem sets required. One additional stem set required for each row mounted fixture.
15. DA Driver only. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
16. DA and DSR Drivers only.
17. Avi-on and Lutron Athena Controls only.
18. Lutron Athena Controls only.

ASM LED Architectural Surface Mount

FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4'	L25	2614	19.5	134
	L46	4682	33.9	138
8'	L50	4917	34.0	145
	L92	9212	64.7	142

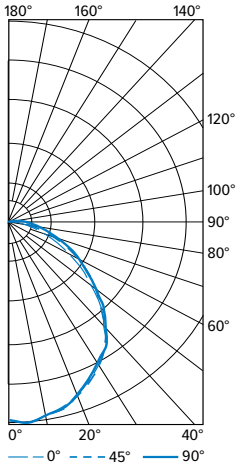
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

PHOTOMETRY

ASM-4-L46/835-A-S-DIM-UNV Total Luminaire Output: 4682 lumens; 33.9 Watts | Efficacy: 138.2 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

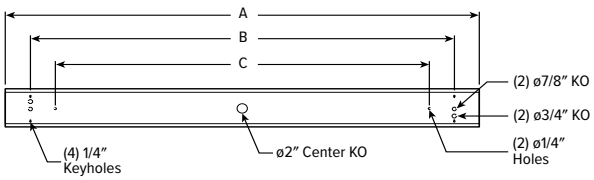
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1792	1792	1792	
5	1822	1820	1820	172
15	1742	1737	1731	487
25	1576	1565	1558	719
35	1370	1368	1368	846
45	1045	1075	1082	821
55	701	765	780	676
65	411	503	522	483
75	190	288	306	287
85	48	136	166	136
90	11	77	111	
95	0	41	72	45
105	0	0	24	10
115	0	0	0	1
125	0	0	0	0
135	0	0	0	0
145	0	0	0	0
155	0	0	0	0
165	0	0	0	0
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1378	29
0 - 40	2223	48
0 - 60	3720	79
0 - 90	4625	99
90 - 120	57	1
90 - 150	57	1
90 - 180	57	1
0 - 180	4682	100

FIXTURE DETAILS

BACKVIEW



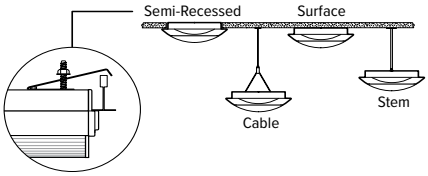
	A	B	C
4'	46-13/16"	40"	32"
8'	93-5/8"	87"	80"

Dimension A is for row-mounted units without end caps. End caps add 3/4" to dimension A.

ASM LED Architectural Surface Mount

MOUNTING DETAILS

CONTINUOUS ROW

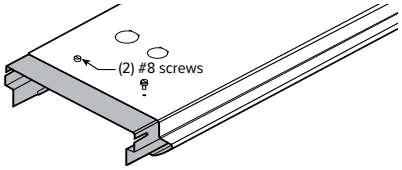


Semi-recessed model is suitable for installation in NEMA Type "G" ceiling system of 1" wide (nominal) tees mounted across ends of fixture 48" O.C., using factory furnished mounting brackets. Fixtures may be mounted in continuous row. Ceiling tiles are supported along sides by fixture housing. Fixture protrudes 2" below ceiling plane.

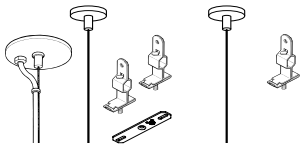
Depending on installation method, cable mounting may require additional counter-weights due to side-mounted driver.

ROW ALIGNER

(not available with semi-recessed units)



STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

- Fixtures specified with suspended mounting type are provided with adjustable length aircraft cables with two-point "Y" connectors and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

CORD FOR SUSPENDED PRODUCT

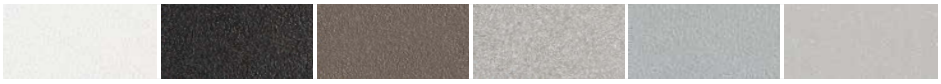
Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. [1]	WIRE SIZE	COLOR
S	**24** 24″ **48** 48″ **96** 96″	**3** **4** **5** **6**	**8D** 18ga	**/W** White **/B** Black

[1] Includes (2) 22ga purple & pink dimming conductors

FINISH OPTIONS

WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM



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.

QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

SEE NEXT PAGE FOR CONTROL DETAILS.

ASM LED Architectural Surface Mount

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

ADDITIONAL CONTROL/DRIVER OPTIONS

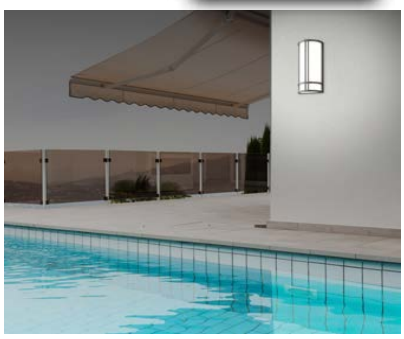
Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power
AWNR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power
AWNR/DSR	Lutron Athena wireless node integral fixture control, RF only, for use with sensor-ready driver (D4i DALI-2)
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 only)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

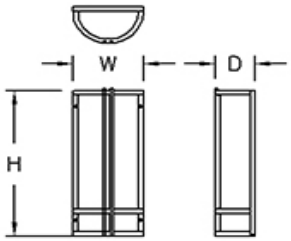
Job Name : GARY MATZNER PARK - PINECREST
Manufacturer : SCOTT ARCHITECTU
Model Number : S9131-L32-30K-PT
Notes : FINISH TO BE DETERMINED

Type : L-6

S9130 Series



DIMENSIONS



W	H	D	MC	BASE MODEL NO.
7″	16″	4″	8″	**S9130-L24**
9″	20″	5 1/2″	10″	**S9131-L32**
9″	26″	5 1/2″	13″	**S9132-L34**

SPECIFICATIONS

Driver: 0-10V dimming to 1%, 120/277
Mounting: Mounts to all Standard Electrical Junction Boxes (by others) With Hardware Provided. Silicone Seal Required (by others).

FEATURES

- Opal Acrylic Lens
- Opal Acrylic Top & Bottom Lens
- Solid Bar Stock Material
- UL Listed for Wet Location
- LED 0-10V Dimming Driver

ORDER AS A COMPLETE UNIT:

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

S9130-L24 S9131-L32 S9132-L34	+	27K 30K 35K 40K	+	PT BA	+	Option

FINISHES

BA Brushed Aluminum
PT Powder Coated Finishes* **

*(Specify Color Code from the list of Powder Coating Finishes [except interior only metallics])

OPTIONS

BAC Buy America; Buy American Act; and Build America, Buy America Act Compliant.
EML Remote 10W Emergency LED Battery Backup

LIGHT OUTPUT

LXX = ~ 75 LPW Delivered Lumens (Example: L24= 24W x 75LPW = 1,800 Lumens)

** Try our new **Shimmer Metalic Paints**, Formulated for Exterior Conditions.

www.ScottArchLighting.com | Tel (707) 864-2172 | Fax (707) 864-2182
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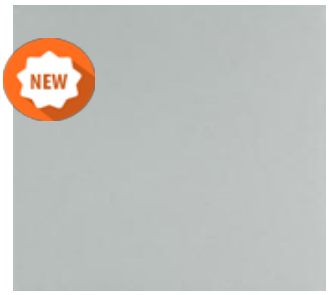
Basic Finishes

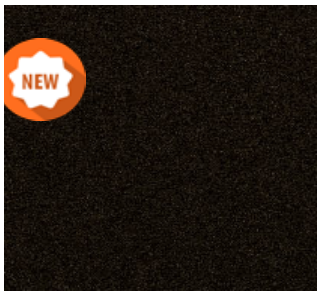
Black
'BL'

White
'WH'



Silver
'SV'

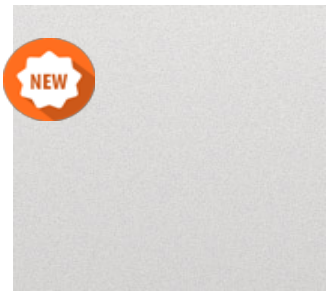
Shimmer Dimensional Metallic Finishes (Interior or Exterior)



Midnight Shimmer
'MS'

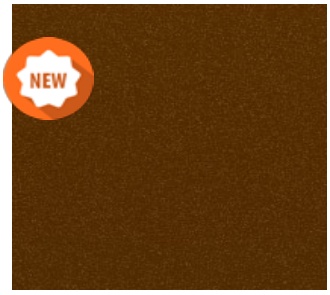
Twilight Shimmer
'TS'

Silver Shimmer
'SS'

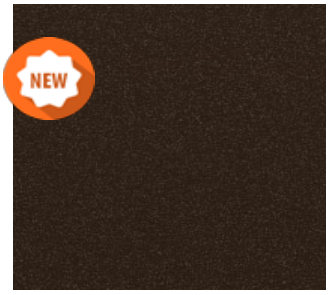


Vapor Shimmer
'VS'

Copper Shimmer
'CS'



Henna Shimmer
'HS'



Bronze Shimmer
'ZS'

Jewel Shimmer
'JS'

Off White

Egret
'EG'

Beige
'BE'

Shades of Grey

Smoke
'SK'

Agate Grey
'AG'

Grey Silver
'GS'

Traffic Grey
'TG'

Quartz Grey
'QG'

Warm Tones

Khaki
'KH'

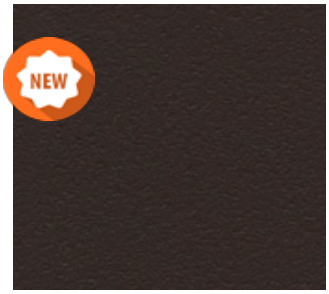
Mocha
'MC'

Rust
'RS'

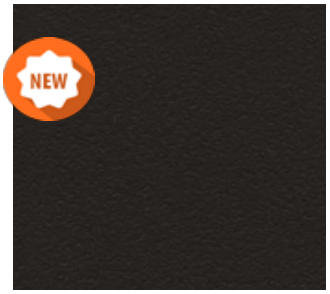
Bronzes

Light Bronze
'LB'

Bronze
'BZ'



Flat Bronze
'FZ'



Statuary Bronze
'SZ'

Shades of Green

Dark Sage
'DS'

Napa Green
'NG'

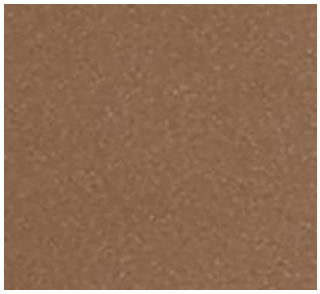
Primary Colors

Ruby Red
'RR'

Royal Blue
'RB'

Yellow
'YL'

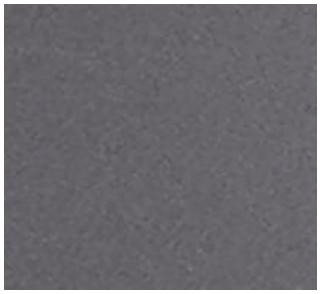
Metallic Finishes (Interior Only)



Beige Metallic
'BI'

Copper Metallic
'CM'

Bronze Metallic
'BM'



Grey Metallic
'GM'

Anthracite Metallic
'AM'