

### **ACE ELECTRIC**

# INDIAN WELLS TENNIS GARDEN SOUTH OF MILES DROP OFF LIGHTING SUBMITTALS

11.09.2021 MAIN ELECTRIC SUPPLY 4674 CARDIN ST., SAN DIEGO, CA 92111 PHONE: (858) 737-7000

FAX: (858) 737-7055



#### **ACE ELECTRIC**

## INDIAN WELLS TENNIS GARDEN SOUTH OF MILES DROP OFF LIGHTING SUBMITTAL PACKAGE

TYPE	MFGR	CATALOG#
SA	BEGA	#84249-K4/ #1508HR-STD. COLORS/ #EMS-L*
SB	BEGA	#84407-K4/ #1508HR-STD. COLORS/ #EMS-L*
		PLEASE SPECIFY FINISH
		PLEASE PROVIDED WHICH MOTION SENSOR ARM MOUNT NEEDED EM S-L2, EM S-L3, EM S-L4, EM S-L7.

#### Application

Twin pole-top luminaire with asymmetric forward throw light distribution (Type III). The asymmetric forward throw provides light in front of the luminaire to uniformly wash surfaces. Slip fits 3" O.D. pole top or tenon.

#### Materials

Luminaire housing and pole fitter constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy Clear safety glass

Reflector made of pure anodized aluminum

High temperature silicone gasket

Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations

Protection class IP66

Effective projection area: 1.01 sq. ft.

Weight: 25.1 lbs

Electrical

Operating voltage 120-277V AC
Minimum start temperature -30° C
LED module wattage (2) 55.3 W
System wattage 123.0 W
Controllability 0-10V dimmable
Color rendering index Ra > 80

Luminaire lumens 13,344 lumens (4000K)

LED service life (L70) 60,000 hours

LED color temperature

4000K - Product number + **K4**3500K - Product number + **K35**3000K - Product number + **K3**2700K - Product number + **K27** 

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

#### Finish

All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.

Available colors Black (BLK)

Bronze (BRZ)

White (WHT)

Silver (SLV)

RAL:

CUS:

Type:

**BEGA Product:** 

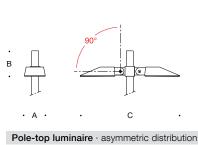
TYPE: SA

Project:

Modified:

Available options

FSC Fusing



LED A B C 84249 (2) 55.3W 87% 105% 3834



#### #84249-K4/ #1508HR-STD. COLORS/ #EMS-L\* TYPE: SA

Type: Approval:

Project: Options: Modified:

Luminaire: Fixture EPA:

Optional Tenon: ☐ 23/8" o x 31/2" H

GCO: □ GFI: □

#### 1508HR 3" - 5" Tapered round hinged pole

**Shaft:** Extruded from all new seamless 6063 aluminum alloy tubing, heat treated to a T-6 condition.

Anchor base: Round cast aluminum A356 alloy, heat treated to a T-6 condition. Anchor base and shaft continuously welded at the outside top and inside bottom of the anchor base casting. Pole base to be round hinged two piece casting. Hinge Pole shaft to be welded to upper base casting which is secured to lower base casting by three (3) stainless steel bolts. Bolts to be fastened to cast-in stainless threaded inserts in lower casting. Cast round two piece base cover supplied with pole.

Anchor bolts: Four (4) 3/4" x 17" galvanized steel anchor bolts supplied with double nuts and flat washers. Maximum bolt projection 31/2".

**GCO or GFI:** Standard GCO/GFI location is opposite the hinge. Height above base for ballast in luminaires is 18". For single luminaires with a pole base mounted (PBM) ballast the minimum height is 24" and 42" minimum for double PBM luminaires.

Weight: 76.0 lbs.

#### Disclaimer

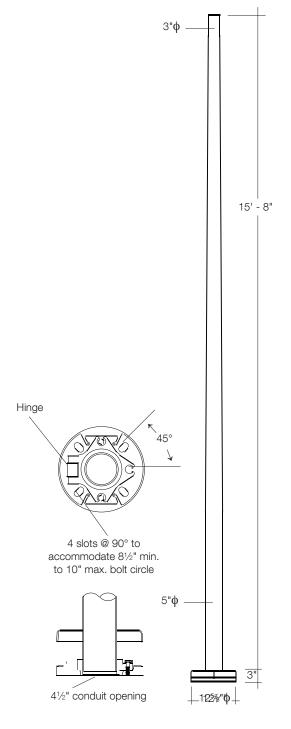
BEGA-US warrants the specific anchor bolts and pole combination according to the product number(s) and description(s) indicated on this submittal sheet. Structural changes to the pole requested by the customer, including changes to pole length, may affect the compatibility of the anchor bolts and corresponding poles. BEGA-US is not responsible for the incompatibility of the anchor bolts and poles resulting from such structural changes without review by the BEGA-US engineering department. This includes, but is not limited to, any labor charges, charges for replacement materials and shipping.

Pole wind load rating:

MPH: 70 80 90 100 120 EPA: 15.4 11.2 8.5 6.5 4.4

**Note:** Data above assumes grade level installation and a maximum

luminaire weight of 75 lbs.

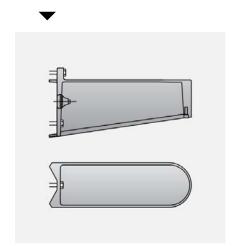


TYPE: SA

0

PLEASE PROVIDED WHICH MOTION SENSOR ARM MOUNT NEEDED EM S-L2, EM S-L3, EM S-L4, EM S-L7.
SEE NEXT PAGES

Product (4) o



Sens rs · Arm mounted · External moti n sens r

	LED	EXPRESS o	β	Α	Во
EM S-L2				9½	3½
EM S-L3 o				9½	3½ <b>o</b>
EM S-L4 o				9½	3½
<b>EM S-L7</b> 0				9½	3½ <b>o</b>

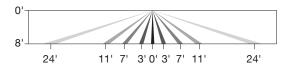
**Housing:** One piece, die cast aluminum housing with aluminum access door secured with mechanically captive stainless steel screw. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

**Description:** The EMS-L2 motion sensor provides multi-level lighting control based on motion. The EMS-L2 provides a maximum coverage of 48' diameter 360° coverage at 8' mounting heights. The EMS-L2 motion sensor unit is mounted inside a pole mount arm for attachment to BEGA poles for use with BEGA 0-10V dimmable LED pole top luminaires.

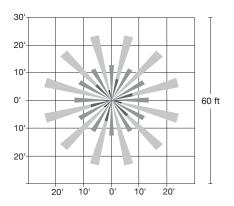
The sensor ramps lighting ON to 100% light output when motion is first detected. After the sensor stops detecting movement and the 5 minute time delay elapses, lights fade to 10% light output. If there is no motion during the subsequent 1 hour cut off time delay, the lights will turn off. Any time the sensor detects motion after it has dimmed to 10% or off, it will ramp the light level back to 100%.

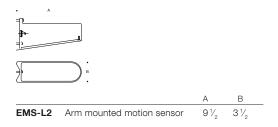
Desired subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). This tool enables adjustment of parameters including high and low light levels, motion sensitivity, time delay, and cut off time. The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors. The FSIR-100 is sold separately.

#### Side Coverage Pattern:



#### Top Coverage Pattern







Housing: One piece, die cast aluminum housing with aluminum access door secured with mechanically captive stainless steel screw. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

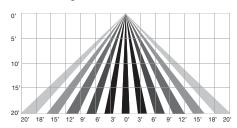
**Description:** The EMS-L3 motion sensor provides multi-level lighting control based on motion. The EMS-L3 provides a maximum coverage of 40' diameter 360° coverage at 20' mounting heights. The EMS-L3 motion sensor unit is mounted inside a pole mount arm for attachment to BEGA poles for use with BEGA LED 0-10V dimmable pole top luminaires.

The sensor ramps lighting ON to 100% light output when motion is first detected. After the sensor stops detecting movement and the 5 minute time delay elapses, lights fade to 10% light output. If there is no motion during the subsequent 1 hour cut off time delay, the lights will turn off. Any time the sensor detects motion after it has dimmed to 10% or off, it will ramp the light level back to 100%.

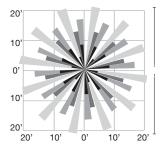
Desired subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). This tool enables adjustment of parameters including high and low light levels, motion sensitivity, time delay, and cut off time. The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors. The FSIR-100 is sold separately.

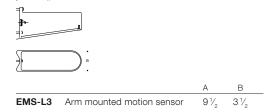
Weight: 2 lbs

#### Side Coverage Pattern:



#### Top Coverage Pattern









Housing: One piece, die cast aluminum housing with aluminum access door secured with mechanically captive stainless steel screw. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

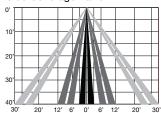
**Description:** The EMS-L4 motion sensor provides multi-level lighting control based on motion. The EMS-L4 provides a maximum coverage of 60' diameter 360° coverage at 40' mounting heights. The EMS-L4 motion sensor unit is mounted inside a pole mount arm for attachment to BEGA poles for use with BEGA LED 0-10V dimmable pole top luminaires.

The sensor ramps lighting ON to 100% light output when motion is first detected. After the sensor stops detecting movement and the 5 minute time delay elapses, lights fade to 10% light output. If there is no motion during the subsequent 1 hour cut off time delay, the lights will turn off. Any time the sensor detects motion after it has dimmed to 10% or off, it will ramp the light level back to 100%.

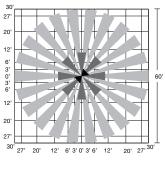
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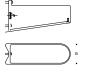
Weight: 2 lbs

#### Side Coverage Pattern:



#### Top Coverage Pattern





**EMS-L4** Arm mounted motion sensor  $9\frac{1}{2}$   $3\frac{1}{2}$ 

BEGA Product: Project: Voltage:

> Color: Options: Modified:

Type:



**Housing:** One piece, die cast aluminum housing with aluminum access door secured with mechanically captive stainless steel screw. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

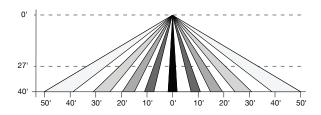
**Description:** The EMS-L7 motion sensor provides multi-level lighting control based on motion. The EMS-L7 provides a maximum coverage of 100' diameter 360° coverage at 40' mounting heights. The EMS-L7 motion sensor unit is mounted inside a pole mount arm for attachment to BEGA poles for use with BEGA LED 0-10V dimmable pole top luminaires.

The sensor ramps lighting ON to 100% light output when motion is first detected. After the sensor stops detecting movement and the 5 minute time delay elapses, lights fade to 10% light output. If there is no motion during the subsequent 1 hour cut off time delay, the lights will turn off. Any time the sensor detects motion after it has dimmed to 10% or off, it will ramp the light level back to 100%.

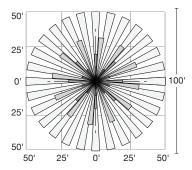
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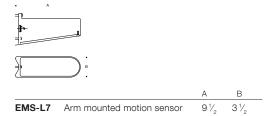
#### Weight: 2 lbs

#### Side Coverage Pattern:



#### Top Coverage Pattern







#### Application

LED pole-top luminaires with twin head and asymmetric light distribution ideal of the illumination of roadways, squares, driveways and pedestrian areas while meeting full cut-off requirements. Slip fits 3" O.D, pole top of tenon.

#### Materials

Luminaire housing and pole fitter constructed of die-cast marine grade, copper free ( $\leq$  0.3% copper content) A360.0 aluminum alloy

Clear safety glass

Reflector made of pure anodized aluminum

High temperature silicone gasket

Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations

Protection class IP 66 **Weight:** 14.1 lbs.

EPA (Effective projection area): 0.65 sq. ft.

Electrical

Operating voltage 120-277V AC
Minimum start temperature -30° C
LED module wattage 55.3 W
System wattage 61.0 W
Controllability 0-10V dimmable

Color rendering index Ra > 80

 Luminaire lumens
 6,672 lumens (4000K)

 Lifetime at Ta = 15° C
 232,000 h (L70)

 Lifetime at Ta = 35° C
 73,000 h (L70)

LED color temperature

4000K - Product number + **K4** 3500K - Product number + **K3** 3000K - Product number + **K3** 2700K - Product number + **K27** 

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

#### Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:

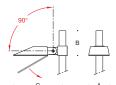
Type:

**BEGA Product:** 

Project:

Modified:





 LED
 A
 B
 C

 84407
 55.3 W
 8 √8
 11/2
 19 ⅓8

Recommended for use with 14' to 25' poles

TYPE: SB

Type: Project: Options: Modified: Luminaire: Fixture EPA: Optional Tenon: ☐ 23/8" o x 31/2" H GCO: 🖵

GFI: 📮

Approval:

#### 1508HR 3" - 5" Tapered round hinged pole

Shaft: Extruded from all new seamless 6063 aluminum alloy tubing, heat treated to a T-6 condition.

Anchor base: Round cast aluminum A356 alloy, heat treated to a T-6 condition. Anchor base and shaft continuously welded at the outside top and inside bottom of the anchor base casting. Pole base to be round hinged two piece casting. Hinge Pole shaft to be welded to upper base casting which is secured to lower base casting by three (3) stainless steel bolts. Bolts to be fastened to cast-in stainless threaded inserts in lower casting. Cast round two piece base cover supplied with pole.

Anchor bolts: Four (4) 3/4" x 17" galvanized steel anchor bolts supplied with double nuts and flat washers. Maximum bolt projection 31/2".

GCO or GFI: Standard GCO/GFI location is opposite the hinge. Height above base for ballast in luminaires is 18". For single luminaires with a pole base mounted (PBM) ballast the minimum height is 24" and 42" minimum for double PBM luminaires.

Weight: 76.0 lbs.

#### Disclaimer

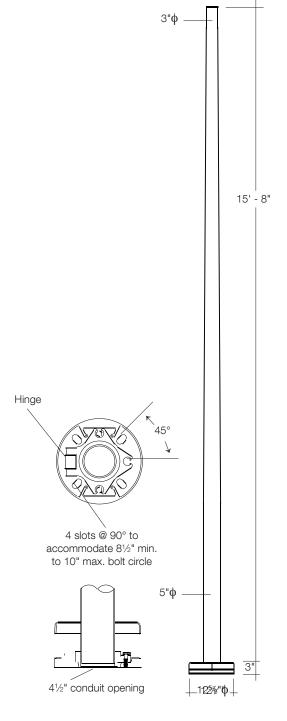
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Pole wind load rating:

MPH: 70 80 90 100 120 EPA: 15.4 11.2 8.5 6.5 4.4

Note: Data above assumes grade level installation and a maximum

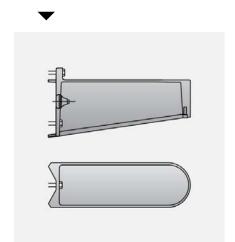
luminaire weight of 75 lbs.



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PLEASE PROVIDED WHICH MOTION SENSOR ARM MOUNT NEEDED EM S-L2, EM S-L3, EM S-L4, EM S-L7.
SEE NEXT PAGES

Product (4) o



Sens rs · Arm mounted · External moti n sens r

	LED	EXPRESS o	β	Α	Во
EM S-L2				9½	3½
EM S-L3 o				9½	3½ <b>o</b>
<b>EM S-L4</b> 0				9½	3½
<b>EM S-L7</b> 0				9½	3½ <b>o</b>

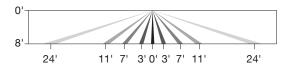
**Housing:** One piece, die cast aluminum housing with aluminum access door secured with mechanically captive stainless steel screw. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

**Description:** The EMS-L2 motion sensor provides multilevel lighting control based on motion. The EMS-L2 provides a maximum coverage of 48' diameter 360° coverage at 8' mounting heights. The EMS-L2 motion sensor unit is mounted inside a pole mount arm for attachment to BEGA poles for use with BEGA 0-10V dimmable LED pole top luminaires.

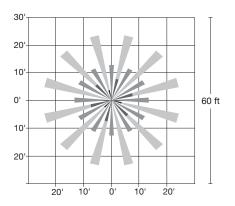
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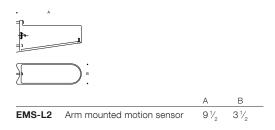
Desired subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). This tool enables adjustment of parameters including high and low light levels, motion sensitivity, time delay, and cut off time. The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors. The FSIR-100 is sold separately.

#### Side Coverage Pattern:



#### Top Coverage Pattern







**Housing:** One piece, die cast aluminum housing with aluminum access door secured with mechanically captive stainless steel screw. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

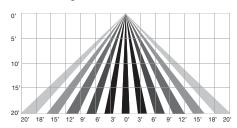
**Description:** The EMS-L3 motion sensor provides multi-level lighting control based on motion. The EMS-L3 provides a maximum coverage of 40' diameter 360° coverage at 20' mounting heights. The EMS-L3 motion sensor unit is mounted inside a pole mount arm for attachment to BEGA poles for use with BEGA LED 0-10V dimmable pole top luminaires.

The sensor ramps lighting ON to 100% light output when motion is first detected. After the sensor stops detecting movement and the 5 minute time delay elapses, lights fade to 10% light output. If there is no motion during the subsequent 1 hour cut off time delay, the lights will turn off. Any time the sensor detects motion after it has dimmed to 10% or off, it will ramp the light level back to 100%.

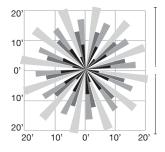
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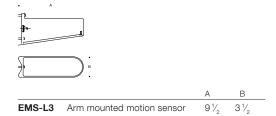
Weight: 2 lbs

#### Side Coverage Pattern:



#### Top Coverage Pattern





Type: BEGA Product: Project: Voltage: Color: Options:

Modified:



**Housing:** One piece, die cast aluminum housing with aluminum access door secured with mechanically captive stainless steel screw. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

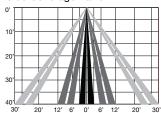
**Description:** The EMS-L4 motion sensor provides multi-level lighting control based on motion. The EMS-L4 provides a maximum coverage of 60' diameter 360° coverage at 40' mounting heights. The EMS-L4 motion sensor unit is mounted inside a pole mount arm for attachment to BEGA poles for use with BEGA LED 0-10V dimmable pole top luminaires.

The sensor ramps lighting ON to 100% light output when motion is first detected. After the sensor stops detecting movement and the 5 minute time delay elapses, lights fade to 10% light output. If there is no motion during the subsequent 1 hour cut off time delay, the lights will turn off. Any time the sensor detects motion after it has dimmed to 10% or off, it will ramp the light level back to 100%.

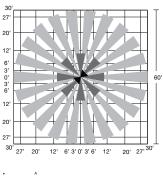
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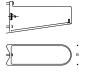
Weight: 2 lbs

#### Side Coverage Pattern:



#### Top Coverage Pattern





**EMS-L4** Arm mounted motion sensor  $9\frac{1}{2}$   $3\frac{1}{2}$ 

BEGA Product: Project: Voltage:

> Color: Options: Modified:

Type:



**Housing:** One piece, die cast aluminum housing with aluminum access door secured with mechanically captive stainless steel screw. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

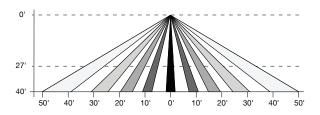
**Description:** The EMS-L7 motion sensor provides multi-level lighting control based on motion. The EMS-L7 provides a maximum coverage of 100' diameter 360° coverage at 40' mounting heights. The EMS-L7 motion sensor unit is mounted inside a pole mount arm for attachment to BEGA poles for use with BEGA LED 0-10V dimmable pole top luminaires.

The sensor ramps lighting ON to 100% light output when motion is first detected. After the sensor stops detecting movement and the 5 minute time delay elapses, lights fade to 10% light output. If there is no motion during the subsequent 1 hour cut off time delay, the lights will turn off. Any time the sensor detects motion after it has dimmed to 10% or off, it will ramp the light level back to 100%.

Desired subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). This tool enables adjustment of parameters including high and low light levels, motion sensitivity, time delay, and cut off time. The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors. The FSIR-100 is sold separately.

#### Weight: 2 lbs

#### Side Coverage Pattern:



#### Top Coverage Pattern

