

# ENVIROSEAL™

## ES12 SERIES

### PRODUCT FEATURES:

- » Surface mount – ceiling or wall; 12"×24" (30.48cm×60.96cm), 12"×36" (30.48cm×91.44cm), 12"×48" (30.48cm×121.92cm), 12"×72" (30.48cm×182.88cm), 12"×96" (30.48cm×243.84cm)
- » Cold rolled steel or stainless steel housing for corrosion resistance
- » Continuous row mount for multiple luminaires
- » IP65 Option available



### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

### SPECIFICATIONS

**HOUSING:** One-piece, seam-welded 20-gauge CRS. Base provided with four-point mounting holes and one wireway hole. Lens is positioned in baseplate channels and retained with stainless steel fastener(s). Base mounts flush to ceiling or wall surface.

**LENS/GASKET:** UV-stabilized, pearlescent or clear polycarbonate. Smooth exterior, linear prismatic interior. Nominal thickness .125" (.32cm). IP65 option provided with linear silicone gasket to seal lens frame to housing.

**FINISH:** Brushed stainless steel finish (#4B) or white TGIC polyester powder coat – 5-stage pre-treatment; Salt spray test: 1,000 hours; Reflectance: 92%.

**SOCKETS:** Shock-resistant sockets with internal locking collar to ensure positive lamp retention.

**HARDWARE:** Two Type 302 stainless steel Phillips head fastener secures lens in housing channel.

**ELECTRICAL:** **LED:** Available 3500K, 4000K and 5000K color temperatures, 82 CRI. 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant-current driver (<20% THD, >0.95 PF). Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non dim-to-dark with 347V); 330µA max. source current. Optional embedded microwave motion sensor (MS) has factory default settings of 20 minute time out, dims down to 30%. **LE:** Class P ballast. Fluorescent electronic 120/277 or 347 voltage ballasts, high power factor. Optional one-lamp 90 minute nickel-cadmium battery pack (EL) includes inverter charger, test switch and charging indicator lamp.

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric information, go to [www.kenall.com](http://www.kenall.com).

**WARRANTY:** Limited five (5) year LED warranty.

**LISTINGS:** UL and CUL listed for Wet Location – covered ceiling. UL and CUL listed for Damp Location – horizontal wall mount. Optional UL certified IP65 per IEC 60598 (IP65 Option) – ceiling mount.



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### ORDERING INFORMATION (Ex: ES12-48-45L50K-DCC-1-DV-2H-PP-FS)

Model      Length      Lamp Qty/Lamp Type      Ballast/Driver Type      Ballast/Driver Qty      Voltage      Housing      Lens Type      Options

#### ES12

##### Nominal Length

24	2' (60.96cm)
36	3' (91.44cm)
48	4' (121.92cm)
72	6' (182.88cm)
96	8' (243.84cm)

##### Lamp Qty/Lamp Type

2' (60.96cm) Lengths	
2-14 <sup>▲</sup>	F14T5
3-14 <sup>▲</sup>	F14T5
4-14 <sup>▲</sup>	F14T5
2-24	F24T5HO
3-24	F24T5HO
4-24	F24T5HO
2-17	F17T8
3-17	F17T8
4-17	F17T8

##### 3' (91.44cm) Lengths

2-21	F21T5
3-21	F21T5
4-21	F21T5
2-25	F25T8
3-25	F25T8
4-25	F25T8
2-39	F39T5HO
3-39	F39T5HO
4-39	F39T5HO

##### Lamp Qty/ Lamp Type (cont'd)

##### 4' (121.92cm) Lengths

1-45L35K	45 Watt 3500K LED
1-45L40K	45 Watt 4000K LED
1-45L50K	45 Watt 5000K LED
1-67L35K	67 Watt 3500K LED
1-67L40K	67 Watt 4000K LED
1-67L50K	67 Watt 5000K LED
1-90L35K	90 Watt 3500K LED
1-90L40K	90 Watt 4000K LED
1-90L50K	90 Watt 5000K LED
2-28 <sup>▲</sup>	F28T5
3-28 <sup>▲</sup>	F28T5
4-28 <sup>▲</sup>	F28T5
2-32	F32T8
3-32	F32T8
4-32	F32T8
2-54	F54T5HO
3-54	F54T5HO
4-54	F54T5HO

##### 6' (182.88cm) Lengths

2-72	F72T8HO
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##### 8' (243.84cm) Lengths

##### (Lamp Qty per 4' (121.92cm) Cross section)

1-45L35K	45 Watt 3500K LED
1-45L40K	45 Watt 4000K LED
1-45L50K	45 Watt 5000K LED
1-67L35K	67 Watt 3500K LED
1-67L40K	67 Watt 4000K LED
1-67L50K	67 Watt 5000K LED
1-90L35K	90 Watt 3500K LED
1-90L40K	90 Watt 4000K LED
1-90L50K	90 Watt 5000K LED
2-28 <sup>▲</sup>	F28T5
3-28 <sup>▲</sup>	F28T5
4-28 <sup>▲</sup>	F28T5
2-32	F32T8
3-32	F32T8
4-32	F32T8
2-54	F54T5HO
3-54	F54T5HO
4-54	F54T5HO

##### Ballast/Driver Type

DCC	Dimming Constant Current (LED)
IS	Elec <10% THD Instant Start (T8)
RS	Elec <10% THD Rapid Start (T5, T5HO, T8, Biax)
SB	Specified Ballast

##### Ballast/Driver Quantity

1	One
2	Two

##### Voltage

DV	120-277 Volts
347	347 Volt

##### Housing Options

2H	20-Ga CRS; Painted
P5H	20-Ga 304SS; Painted
5H	20-Ga 304SS; Brushed
PXH	20-Ga 316SS; Painted
XH	20-Ga 316SS; Brushed

##### Lens Type

PP	Pearlescent Polycarbonate
CP <sup>▼</sup>	Clear Polycarbonate

##### Options

LEL <sup>▲</sup>	LED Emergency Battery Backup (45L lamp type only)
EL*‡	Standard Lumen EL Pack (450 lumens) (n/a with LED)
PEL*‡	High Lumen EL Pack (1100 lumens) (n/a with LED)
SEL*‡	Specified EL Pack (n/a with LED)
FS <sup>▲</sup>	Single Fuse & Holder
HC <sup>▲</sup>	Row Mount Hub Connector (see KO option)
IP65***	UL certified IP65 Listing (w/removable end caps – not suitable for continuous row mount)
KO <sup>▲</sup>	Continuous Row Mount - .875" (2.22cm) diameter knockout in end caps (see HC option for Kenall supplied attachment connector)
TN120	120 Volt, 13 Watt Twin Tube NPF Night Light (n/a with LED)
TN277	277 Volt, 13 Watt Twin Tube NPF Night Light (n/a with LED)
TR	Tamper Resistant Torx with center pin fastener
MS	Motion Sensor (4' LED only; n/a with 347 Voltage)

▲ n/a with 347V

\* Option not available with 2' (60.96cm) fixtures, with LED, or F21T5 lamps

\*\* n/a with KO option

▲ n/a with IP65 option

‡ 347V available only with F25T8/F32T8 Lamps

● Add .375" (.95cm) to overall length

▼ n/a with LED



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# ENVIROSEAL™

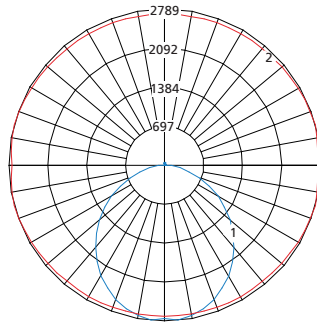
## ES12 SERIES

### PERFORMANCE

Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (hrs)
	@ 25°C (lm)	Efficacy (lm/W)			
45L35K	4,751	97	49	100	80,000
45L40K	5,065	103	49	100	80,000
45L50K	5,198	106	49	100	80,000
67L35K	7,360	101	73	75	80,000
67L40K	7,846	107	73	75	80,000
67L50K	8,053	110	73	75	80,000
90L35K	9,436	96	98	100	60,000
90L40K	10,060	103	98	100	60,000
90L50K	10,325	105	98	100	60,000

Displayed information above is for PP lens type. Info subject to change. Visit [www.kenall.com](http://www.kenall.com) for IES files and additional information.

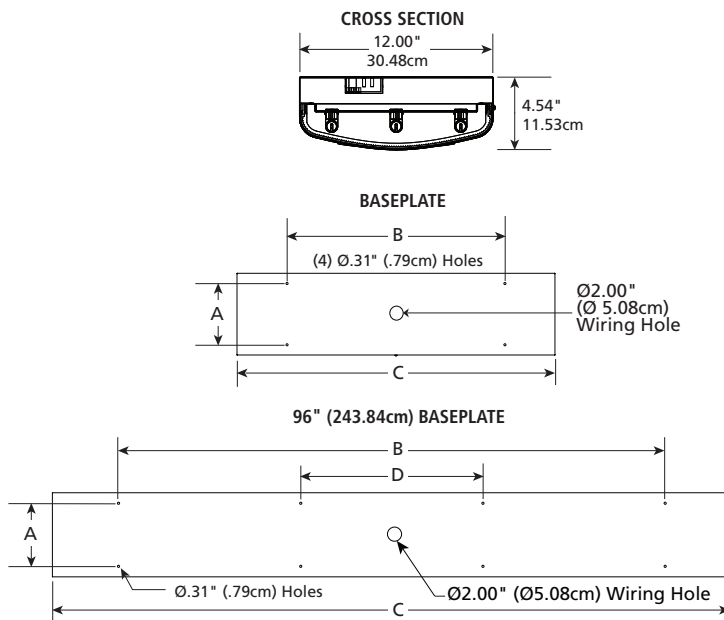
Model: ES12-48-67L40K-DCC-DV-2H-PP



Max Candela = 2789 Located At Horizontal Angle = 15, Vertical Angle = 5

- 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

### DIMENSIONAL DATA



### DIMENSIONAL DATA (IN INCHES & CENTIMETERS)

	A	B	C	D
ES1224 – T5	9.00	16.00	23.25	
cm	22.86	40.64	59.06	
ES1224 – T8	9.00	16.00	24.75	
cm	22.86	40.64	62.87	
ES1236 – T5	9.00	20.00	35.00	
cm	22.86	50.80	88.90	
ES1236 – T8	9.00	20.00	36.75	
cm	22.86	50.80	93.35	
ES1248 – T5	9.00	32.00	46.75	
cm	22.86	81.28	118.75	
ES1248 – T8	9.00	32.00	48.75	
cm	22.86	81.28	123.83	
ES1248 – LED	9.00	32.00	48.75	
cm	22.86	81.28	123.83	
ES1272 – T8	9.00	56.00	72.75	
cm	22.86	142.24	184.79	
ES1296 – T5	9.00	78.00	92.87	26.00
cm	22.86	198.12	235.89	66.04
ES1296 – T8	9.00	78.00	96.87	26.00
cm	22.86	198.12	246.05	66.04
ES1296 – LED	9.00	78.00	96.87	26.00
cm	22.86	198.12	246.05	66.04



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