

# ENVIROSEAL™

## Food Processing Luminaires

### FES SERIES

#### PRODUCT FEATURES:

- » Ceiling or wall mount – 8"×24", 8"×36", 8"×48", 8"×96"
- » One-piece 20-gauge housing with UV-stabilized polycarbonate lens
- » IP65 option available
- » For Hazardous applications please refer to the HES series



#### PROJECT INFORMATION

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

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

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

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

#### SPECIFICATIONS:

**HOUSING:** One-piece, seam-welded 20-gauge CRS. Base provided with two-point mounting holes and one wireway hole. Lens is positioned in base-plate 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". Linear silicone gasket to seal doorframe 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 fasteners secure 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); 330 µA max. source current. **LF:** 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 data, please go to [www.kenall.com](http://www.kenall.com).

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

**LISTINGS:** UL and CUL listed for Wet Location – ceiling mount covered ceiling. UL and CUL listed for Damp Location – horizontal wall mount. Optional UL certified IP65 per IEC 60598 (IP65 Option) – ceiling mount. NSF2 Splash/Non-Food Zone listed. Rated for use in FED-STD 209E/Class 1 (ISO 3) Cleanrooms.



#### ORDERING INFORMATION (Ex: FES8-48-45L50K-DCC-1-DV-2H-PP-FS)

Model	Length	Lamp Qty/Type	Ballast/Driver Type	Ballast/Driver Qty	Voltage	Housing	Lens Type	Options	
<b>FES8</b>									
<b>Nominal Length</b>			<b>8' Lengths (Lamp Qty per 4' Cross Section)</b>			<b>Voltage</b>		<b>Lens Type</b>	
24	2'		<b>1-45L35K</b>	45 Watt 3500K LED	<b>DV</b>	120-277 Volts	<b>PP</b>	Pearlescent Polycarbonate	
36	3'		<b>1-45L40K</b>	45 Watt 4000K LED	<b>347</b>	347 Volt	<b>CP</b>	Clear Polycarbonate	
48	4'		<b>1-45L50K</b>	45 Watt 5000K LED	<b>Housing Options</b>		<b>Options</b>		
96	8'		<b>1-67L35K</b>	67 Watt 3500K LED	<b>2H</b>	20-Ga CRS; Painted	<b>LEL</b>	LED Emergency Battery Backup (45L Lamp Type Only)	
<b>Lamp Qty/Type</b>			<b>1-67L40K</b>	67 Watt 4000K LED	<b>P5H</b>	20-Ga 304SS; Painted	<b>EL*</b>	Standard Lumen EL Pack (450 lumens) (n/a LED)	
<b>2' Lengths</b>			<b>1-90L35K</b>	90 Watt 3500K LED	<b>5H</b>	20-Ga 304SS; Brushed	<b>PEL*</b>	High Lumen EL Pack (1100 lumens) (n/a LED)	
<b>2-14</b>			<b>1-90L40K</b>	90 Watt 4000K LED	<b>PXH</b>	20-Ga 316SS; Painted	<b>SEL*</b>	Specified EL Pack (n/a LED)	
<b>2-17</b>			<b>1-90L50K</b>	90 Watt 5000K LED	<b>XH</b>	20-Ga 316SS; Brushed	<b>FS</b>	Single Fuse & Holder (n/a with 347V)	
<b>3' Lengths</b>			<b>2-28</b>	F28T5			<b>HC</b>	Row Mount Hub Connector (see KO option)	
<b>2-21</b>			<b>2-32</b>	F32T8			<b>KO</b>	Continuous Row Mount - .875" diameter knockout in end caps (see HC option for Kenall supplied attachment connector)	
<b>2-25</b>			<b>2-54</b>	F54T5HO			<b>PM</b>	Pendant Mount (damp locations only) suspension hardware by others	
<b>4' Lengths</b>			<b>Ballast/Driver Type</b>					<b>TN120</b>	120 Volt, 13 Watt Twin Tube NPF Night Light (n/a LED)
<b>1-45L35K</b>			45 Watt 3500K LED	<b>DCC</b>	Dimming Constant Current			<b>TN277</b>	277 Volt, 13 Watt Twin Tube NPF Night Light (n/a LED)
<b>1-45L40K</b>			45 Watt 4000K LED	<b>IS</b>	Elec <10% THD Instant Start (T8)			<b>IP65**</b>	UL certified IP65 Listing (Ceiling Mount)
<b>1-45L50K</b>			45 Watt 5000K LED	<b>RS</b>	Elec <10% THD Rapid Start (T5, T5HO, T8)			<b>TR</b>	Tamper Resistant Torx with center pin fastener
<b>1-67L35K</b>			67 Watt 3500K LED	<b>SB</b>	Specified Ballast			▲ n/a with 347V	
<b>1-67L40K</b>			67 Watt 4000K LED	<b>Ballast/Driver Quantity</b>					* Option n/a with 2' fixtures with LED or F21T5 lamps
<b>1-67L50K</b>			67 Watt 5000K LED	<b>1</b>	One			** n/a with KO options	
<b>1-90L35K</b>			90 Watt 3500K LED	<b>2</b>	Two			^ n/a with IP65 options	
<b>1-90L40K</b>			90 Watt 4000K LED						† Consult factory for pendant mount hole locations.
<b>1-90L50K</b>			90 Watt 5000K LED						‡ 347V available only with F25T8/F32T8 Lamps
<b>2-28</b>			F28T5						• Add .375" to overall length
<b>2-32</b>			F32T8						▼ n/a with LED
<b>2-54</b>			F54T5HO						



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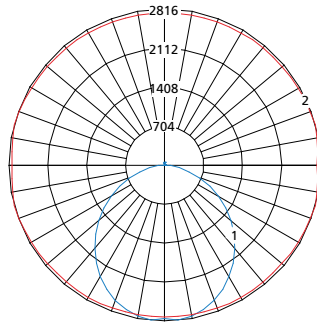
### FES SERIES

#### PERFORMANCE

Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (hrs)
	@ 25°C (lm)	Efficacy (lm/W)			
45L35K	4,819	98	49	100	80,000
45L40K	5,138	105	49	100	80,000
45L50K	5,273	108	49	100	80,000
67L35K	7,373	101	73	75	80,000
67L40K	7,860	108	73	75	80,000
67L50K	8,067	111	73	75	80,000
90L35K	9,366	97	97	100	60,000
90L40K	9,985	103	97	100	60,000
90L50K	10,248	106	97	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.

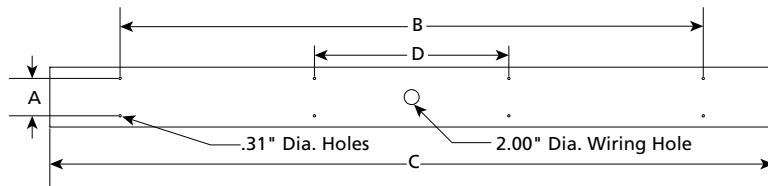
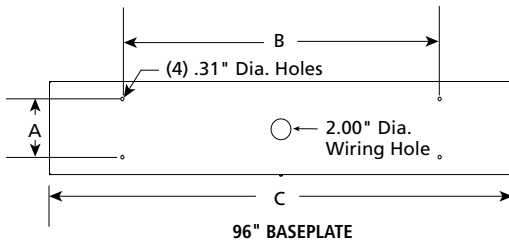
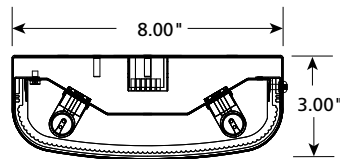
Model: FES8-48-67L40K-DCC-DV-2H-PP



Max Candela = 2816 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)

	A	B	C	D
FES824 - T5	5.00	16.00	23.13	
FES824 - T8	5.00	16.00	24.75	
FES836 - T5	5.00	20.00	35.00	
FES836 - T8	5.00	20.00	36.75	
FES848 - T5	5.00	32.00	46.75	
FES848 - T8/LED	5.00	32.00	48.75	
FES896 - T5	5.00	78.00	92.87	26.00
FES896 - T8	5.00	78.00	96.78	26.00



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