

# ENVIROSEAL™

## Food Processing Luminaires

### FES SERIES

#### PRODUCT FEATURES:

- » Surface mount – ceiling or wall; 3"×24", 3"×36", 3"×48", 3"×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. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Lens is positioned in baseplate channels and retained with stainless steel fastener. 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.

**SOCKETS:** Shock-resistant sockets with internal locking collar to ensure positive lamp retention. Hardware: One Type 302 stainless steel Phillips head fastener secures lens in housing channel.

**ELECTRICAL:** LED: Available 3000K, 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 3-100% range, maximum driver source of 500 µA. 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.

**SENSOR & CONTROLS:** Optional sensor available with compatible third party controls. To see the full list of compatible controls, [click here](#).

**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. [Peace of Mind Guarantee](#) against breakage.

**LISTINGS:** UL and CUL listed for Wet Location – ceiling mount covered ceiling. UL and CUL listed for Damp Location – horizontal wall mount. Optional UL and CUL Listed for Wet Location (WW Option) – horizontal wall mount. Optional UL certified IP65 per IEC 60598 (IP65 Option) – ceiling mount. NSF2 Splash/Non-Food Zone. Rated for use in FED-STD 209E/Class 1 (ISO 3) Cleanrooms. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08.



#### ORDERING INFORMATION (Ex: FES3-48-45L50K-DCC-1-DV-2H-PP-FS)

Model	Length	Lamp Qty/Type	Ballast/Driver Type	Ballast/Driver Qty	Voltage	Housing	Lens Type	Options
<b>FES3</b>				<b>1</b>				
<b>Nominal Length</b>			<b>Ballast/Driver Type</b>			<b>Options</b>		
24	2'		<b>DCC</b>	Dimming Constant Current (LED)	<b>EL*‡</b>	Standard Lumen EL Pack (450 lumens) (n/a with LED)		
36	3'		<b>IS</b>	Elec <10% THD Instant Start (T8)	<b>PEL*‡•</b>	High Lumen EL Pack (1100 lumens) (n/a with LED)		
48	4'		<b>RS</b>	Elec <10% THD Rapid Start (T5, T5HO, T8, Biax)	<b>SEL*‡•</b>	Specified EL Pack (Needs to be a low profile version)		
96	8'		<b>SB</b>	Specified Ballast	<b>FS</b>	Single Fuse & Holder (n/a with 347V)		
<b>Lamp Qty/Type</b>			<b>Ballast/Driver Quantity</b>			<b>HC^</b>		
<b>2' Lengths</b>			<b>1</b>			Row Mount Hub Connector (see KO option)		
1-14^	F14T5		<b>Voltage</b>			<b>KO^</b>		
1-24	F24T5HO		<b>DV</b>			Continuous Row Mount - .875" diameter knockout in end caps (see HC option for Kenall supplied attachment connector)		
1-17	F17T8		<b>347</b>			Pendant Mount (damp locations only) suspension hardware by others		
<b>3' Lengths</b>			<b>Housing Options</b>			<b>IP65***</b>		
1-21	F21T5		<b>2H</b>			UL certified IP65 Listing (Ceiling Mount)		
1-25	F25T8		<b>P5H</b>			<b>WW****</b>		
<b>4' Lengths</b>			<b>5H</b>			UL/CUL Wet Location Listing – Horizontal Wall Mount		
1-45L30K	45 Watt 3000K LED		<b>PXH</b>			<b>TR</b>		
1-45L35K	45 Watt 3500K LED		<b>XH</b>			Tamper Resistant Torx® with center pin fastener		
1-45L40K	45 Watt 4000K LED		<b>Lens Type</b>			▲ n/a with 347V		
1-45L50K	45 Watt 5000K LED		<b>PP</b>			* Option not available with 2' fixtures, with LED, or F21T5 lamps		
1-28^	F28T5		<b>CP^</b>			** Not available with KO or PM options		
1-32	F32T8					^ Not available with IP65 or WW options		
1-54	F54T5HO					+ Not available with IP65 option		
<b>8' Lengths (Lamp Qty per 4' Cross Section)</b>						‡ 347V available only with F25T8/F32T8 Lamps		
1-45L30K	45 Watt 3000K LED					† Consult factory for pendant mount hole locations		
1-45L35K	45 Watt 3500K LED					• Not available with 3' fixture		
1-45L40K	45 Watt 4000K LED					◆ Add .375" to overall length		
1-45L50K	45 Watt 5000K LED					▼ n/a with LED		
1-28^	F28T5							
1-32	F32T8							
1-54	F54T5HO							



www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA  
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For additional photometry, go to [www.kenall.com](http://www.kenall.com)

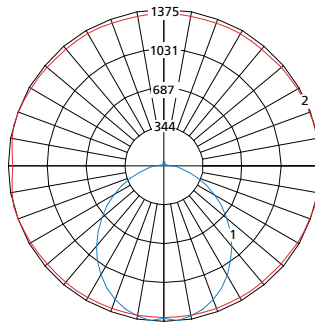
### FES SERIES

#### PERFORMANCE

Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
	@ 25°C	Efficacy (lm/W)			
45L30K	4,560	93	49	100	80,000
45L35K	4,701	96			
45L40K	4,861	99			
45L50K	4,989	102			

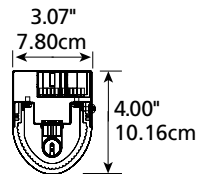
Displayed information above is for PP lens type. Info subject to change. Visit [www.kenall.com](http://www.kenall.com) for IES files and additional information.

Model: FES3-48-45L40K-DCC-DV-2H-PP



Max Candela = 1375 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

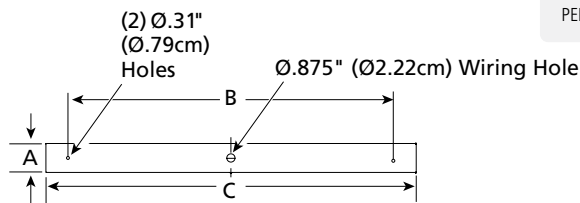


CROSS SECTION

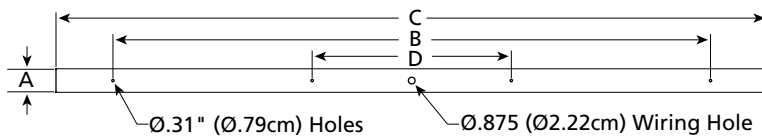
#### DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
FES324* - T5	3.07	20.00	24.75	
FES324* - T8	3.07	20.00	24.75	
FES324* - TT	3.07	20.00	24.75	
FES336 - T5	3.07	28.00	35.00	
FES336 - T8	3.07	24.00	36.75	
FES348 - T5	3.07	40.00	46.75	
FES348 - T8	3.07	40.00	48.75	
FES348 - LED	3.07	40.00	48.75	
FES348 - T5 - PEL	3.07	42.00	46.75	
FES348 - T8 - PEL	3.07	43.50	46.75	
FES396 - T5	3.07	78.00	92.87	26.00
FES396 - T8	3.07	78.00	96.87	26.00

\*NOTE: FES324 Wiring Hole offset 1" left of center line  
 PEL Wiring Hole offset 1.75" left of center line



BASEPLATE



96" BASEPLATE



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