ENVIROSEAL™
Food Processing Luminaires

FES SERIES

PRODUCT FEATURES:

» Ceiling or wall mount – 12"×24", 12"×36", 12"×48", 12"×72", 12"×96"

» One-piece 20-gauge housing with UV-stabilized polycarbonate lens

» IP65 option available

» For Hazardous applications please refer to the HES series

SPECIFICATIONS:

HOUSING: One-piece, seam-welded 20-gauge CRS. Base provided with two-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". 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: <u>LED:</u> 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 1-100% range and dim-to-dark capabilities (non dim-to-dark with 347V); max source current 330µA. <u>LF:</u> 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, <u>click here.</u>

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.

WARRANTY: Limited five (5) year LED warranty. <u>Peace of Mind Guarantee against breakage.</u>

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 in compliance with IEC 60598 (IP65 Option) – ceiling mount. NSF2 Splash/Non-Food Zone. Rated for use in FED-STD 209E/Class 1 (ISO 3) Cleanrooms.

ORDERING INFORMATION (Ex: FES12-48-45L50K-DCC-1-DV-2H-PP-FS)

Model	Length	Lamp Qty/Type	Ballast/Driver Type	Ballast/Driver Qty	Voltage	Housing	Lens Type	Options
FES12								

Nominal Length

24	2'
36	3'
48	4'
72	6'
96	8'

Lamp Qty/Type

2' Lengths

2-14	F14T5
3-14	F14T5
4-14	F14T5
2-24	F24T5HO
3-24	F24T5HO
4-24	F24T5HO
2-17	F17T8
3-17	F17T8
4-17	F17T8

3' 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/Type Continued

4' Lengths

1-45L30K	45 Watt 3000K LED
1-45L35K	45 Watt 3500K LED
1-45L40K	45 Watt 4000K LED
1-45L50K	45 Watt 5000K LED
1-67L30K	67 Watt 3000K LED
1-67L35K	67 Watt 3500K LED
1-67L40K	67 Watt 4000K LED
1-67L50K	67 Watt 5000K LED
1-90L30K	90 Watt 3000K LED
1-90L35K	90 Watt 3500K LED
1-90L40K	90 Watt 4000K LED
1-90L50K	90 Watt 5000K LED
2-28	F28T5
3-28	F28T5
4-28	F28T5
2-32	F32T8
3-32	F32T8
4-32	F32T8
2-54	F54T5HO
3-54	F54T5HO
4-54	F54T5HO

6' Lengths

2-72	F72T8HO (2)

8' Lengths (Lamp Qty per 4' Cross Section)

1-45L30K	45 Watt 3000K LED
1-45L35K	45 Watt 3500K LED
1-45L40K	45 Watt 4000K LED
1-45L50K	45 Watt 5000K LED
1-67L30K	67 Watt 3000K LED
1-67L35K	67 Watt 3500K LED
1-67L40K	67 Watt 4000K LED
1-67L50K	67 Watt 5000K LED
1-90L30K	90 Watt 3000K LED
1-90L35K	90 Watt 3500K LED
1-90L40K	90 Watt 4000K LED
1-90L50K	90 Watt 5000K LED
2-28	F28T5
3-28	F28T5
4-28	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, T8HO, 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▼	Clear Polycarbonate

Options

LEL	LED Emergency Battery Backup (45L lamp type only;n/a with 347V)
EL* ‡	Standard Lumen EL Pack (450 lumens) (n/a LED)
PEL*‡	High Lumen EL Pack (1100 lumens) (n/a LED)
SEL*‡	Specified EL Pack (n/a LED)
FS	Single Fuse & Holder (n/a with 347V)
HC^	Row Mount Hub Connector(see KO option)
KO^	Continuous Row Mount – .875" diameter knockout in end caps (see HC option for Kenall supplied attachment connector)
PM^▲	Pendant Mount (damp locations only) – suspension hardware by others
IP65**•	UL certified IP65 Listing (Ceiling Mount)
TR	Tamper Resistant Torx with center pin fastener

* Option not available with 2' fixtures with LED, or F21T5 lamps
** Not available with KO or PM options
^ Not available with IP65 option
‡ 347V available only with F25T8/F32T8 Lamps
▲ Consult factory for pendant mount hole locations.
• Add .375" to overall length
▼ n/a with LED

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PERFORMANCE

Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (hrs)
	@ 25°C (lm)	Efficacy (lm/W)			
45L30K	4,751	97	49	100	80,000
45L35K	4,898	100			
45L40K	5,065	103			
45L50K	5,198	106			
67L30K	7,360	101	73	75	80,000
67L35K	7,587	104			
67L40K	7,846	107			
67L50K	8,053	110			
90L30K	9,436	96	98	100	60,000
90L35K	9,728	99			
90L40K	10,060	103			
90L50K	10,325	105			

Displayed information above is for PP lens type. Info subject to change. Visit www.kenall.com for IES files and additional information.
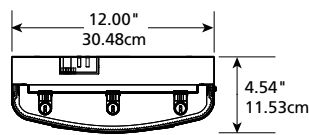
Model: ES12-48-67L40K-DCC-DV-2H-PP
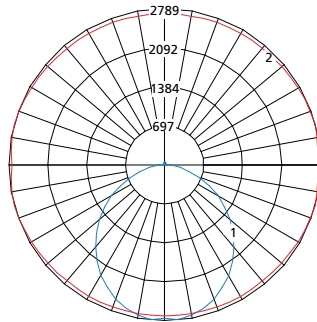
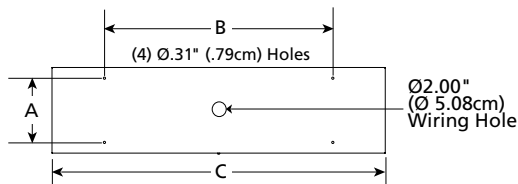Max Candela = 2789 Located At Horizontal Angle = 15, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
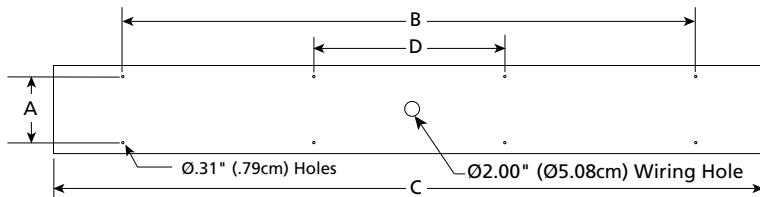2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

DIMENSIONAL DATA

CROSS SECTION

12.00"
30.48cm

4.54"
11.53cm

BASEPLATE

B
(4) Ø.31" (.79cm) Holes
A
C
Ø2.00" (Ø 5.08cm) Wiring Hole

96" BASEPLATE

B
D
A
Ø.31" (.79cm) Holes
Ø2.00" (Ø5.08cm) Wiring Hole
C

DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
FES1224 – T5	9.00	16.00	23.25	
FES1224 – T8	9.00	16.00	24.75	
FES1236 – T5	9.00	20.00	35.00	
FES1236 – T8	9.00	20.00	36.75	
FES1248 – T5	9.00	32.00	46.75	
FES1248 – T8	9.00	32.00	48.75	
FES1248 – LED	9.00	32.00	48.75	
FES1272 – T8	9.00	56.00	72.75	
FES1248 – T5	9.00	32.00	46.75	
FES1248 – T8	9.00	32.00	48.75	
FES1296 – T5	9.00	78.00	92.87	26.00
FES1296 – T8	9.00	78.00	96.87	26.00
FES1296 – LED	9.00	78.00	96.87	26.00

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