ENVIROSEAL™
Food Processing Luminaires

FES SERIES

PRODUCT FEATURES:

» Surface mount – ceiling or wall; 5"×24", 5"×36", 5"×48", 5"×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: One Type 302 stainless steel Phillips head fastener secures 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); 330μA max. source current. <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/CERTIFICATIONS: 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.

ORDERING INFORMATION (Ex: FES5-48-45L50K-DCC-1-DV-2H-PP-FS)

Model	Length	Lamp Qty/Type	Ballast/Driver Type	Ballast/Driver Qty	Voltage	Housing	Lens Type	Options
FES5								

Nominal Length
24	2'
36	3'
48	4'
96	8'

Lamp Type

2' Lengths
1-14▲	F14T5
2-14▲	F14T5
1-17	F17T8
2-17	F17T8
1-31U	F31T8 - 1.62" U
2-31U	F31T8 - 1.62" U

3' Lengths
1-21	F21T5
2-21	F21T5
1-25	F25T8
2-25	F25T8

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
1-28▲	F28T5
2-28▲	F28T5
1-32	F32T8
2-32	F32T8
1-54	F54T5HO
2-54	F54T5HO

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
1-28▲	F28T5
2-28▲	F28T5
1-32	F32T8
2-32	F32T8
1-54	F54T5HO
2-54	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)
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
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	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)
WW***† ●	UL/CUL Wet Location Listing – Horizontal Wall Mount
TR	Tamper Resistant Torx® Fastener

▲ n/a with 347V
* Option not available with 2' fixtures with LED, or F21T5 lamps
** Not available with KO or PM options
^ Not available with IP65 or WW 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	Efficacy (lm/W)			
45L30K	4,410	90	49	100	80,000
45L35K	4,546	93			
45L40K	4,701	96			
45L50K	4,825	98			

Displayed information above is for PP lens type. Info subject to change. Visit www.kenall.com for IES files and additional information.
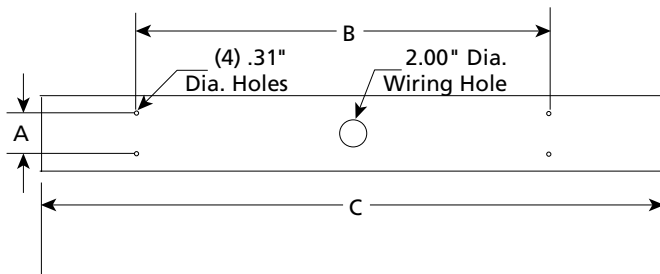
Model: ES5-48-45L40K-DCC-DV-2H-PP
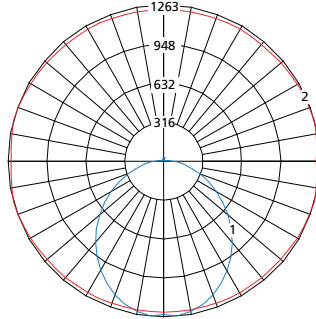
Max Candela = 1263 Located At Horizontal Angle = 15, Vertical Angle = 5

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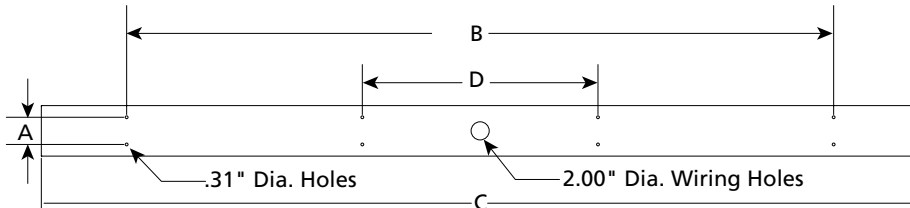— 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

DIMENSIONAL DATA

5.57"

5.60"
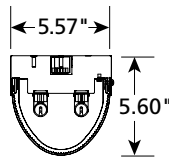
DIMENSIONAL DATA (IN INCHES)	A	B	C	D
FES524 – T5	3.00	16.00	23.25	
FES524 – T8	3.00	16.00	24.75	
FES536 – T5	3.00	20.00	35.00	
FES536 – T8	3.00	20.00	36.75	
FES548 – T5	3.00	32.00	46.75	
FES548 – T8/LED	3.00	32.00	48.75	
FES596 – T5	3.00	78.00	92.87	26.00
FES596 – T8	3.00	78.00	96.83	26.00

(4) .31" Dia. Holes

2.00" Dia. Wiring Hole

A

B

C

96" BASEPLATE

B

D

A

.31" Dia. Holes

2.00" Dia. Wiring Holes

C