

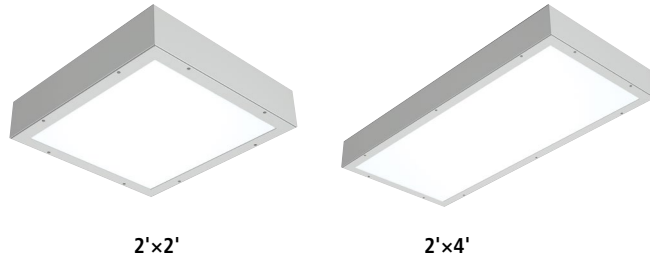
SIMPLESEAL™

Luminaires for EMI-Sensitive Cleanrooms

NFCSESI SERIES

PRODUCT FEATURES:

- » Non-ferrous construction and remote power supplies provide safe operation with EMI-sensitive equipment
- » Symmetric, optical distribution with uniform lens appearance
- » Suitable for surface ceiling installations
- » One-piece sealed housing; smooth exterior doorframe and lens for simplified cleaning protocols
- » High-output, high CRI LED lamp sources



SPECIFICATIONS

HOUSING: Hole-free, one-piece, seam-welded aluminum construction. Non-ferrous components and hardware. Gloss white TGIC polyester powder-coat finish with 5-stage pre-treatment.

DOORFRAME: 0.050" aluminum. One-piece inset-style construction with welded corners. Gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Doorframe secured to housing with aircraft cables and captive, flush-mounted Phillips-head fasteners. Non-ferrous hardware. Closed-cell silicone gasket seals doorframe to housing.

OPTICS: Symmetric optic provides uniform lens appearance. Diffused, impact-resistant acrylic lens.

ELECTRICAL: Serviceable mid-power LED array. Minimum 80CRI standard, 90CRI optional. See Ordering Information for available color temperature options. Luminaire input 24VDC from remote-located 120-277VAC, high-power-factor power supply with EMI filter. Dimming line EMI filter required if utilizing dimming function. Internal non-switch mode DC-DC driver. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities. See below for ordering information and power supply/filter accessories.

INSTALLATION: Surface mounting via four (4) 0.312" (0.79cm) holes. Singular side wiring feed hole provided. All power and signal wiring must be in completely grounded aluminum conduit. Light engine and internal driver are replaceable post-installation. EMI filters required (see Accessories below). Suitable for 0°C to 25°C ambient temperature environments.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. IP65 rating per IEC 60598. NSF2 Splash/Non-Food Zone. Suitable for biosafety labs rated BSL 1 and 2. Meets FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Compliant with MIL-STD 461G for radiated and conducted emissions.



ORDERING INFORMATION (Ex: NFCSESI-24-100L-35K9-DIM1-24V-PAF-PAH-SYM)

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options
NFCSESI				DIM1	24V	PAF	PAH	SYM	
Size			Lamp Color				Housing Options		
22	2'x2' Nominal		30K8 3000K, 80 CRI				PAH .050" Aluminum in Gloss White		
24	2'x4' Nominal		30K9 3000K, 90 CRI				Optics		
			35K8 3500K, 80 CRI				SYM Symmetric, Diffused DR Acrylic		
Lamp Power			35K9 3500K, 90 CRI				Options		
2'x2'			40K8 4000K, 80 CRI				2C Two-Circuit Wiring		
50L	50 Watt LED		40K9 4000K, 90 CRI						
2'x4'			Driver Type						
100L	100 Watt LED		DIM1 0-10V Dimming to 1% with Dim-to-Dark						
			Voltage						
			24V 24VDC Input						
			Doorframe Options						
			PAF Fabricated Aluminum in Gloss White						

ACCESSORIES ORDERED SEPARATELY

- MRIPSF** Remote Power Supply with EMI Filter ([click here](#) for specifications)
- MRIFD-1A** Dimming Filter (one per dimming circuit, [click here](#) for specifications)



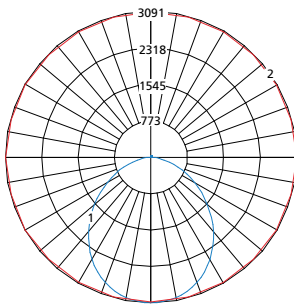
NFCSESI SERIES – TECHNICAL DATA

PERFORMANCE

Model	Lamp Type	Initial Delivered Lumens (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L ₇₀ LED Life (Hrs)
NFCSESI-22	50L-30K8	7,030	111 - 117	60	85,000
	50L-30K9	6,077	96 - 101	60	85,000
	50L-35K8	7,247	114 - 120	60	85,000
	50L-35K9	6,224	98 - 103	60	85,000
	50L-40K8	7,495	118 - 124	60	85,000
	50L-40K9	6,378	100 - 106	60	85,000
NFCSESI-24	100L-30K8	14,571	113 - 121	121	85,000
	100L-30K9	12,595	98 - 105	121	85,000
	100L-35K8	15,022	117 - 125	121	85,000
	100L-35K9	12,900	100 - 107	121	85,000
	100L-40K8	15,535	121 - 129	121	85,000
	100L-40K9	13,220	103 - 110	121	85,000

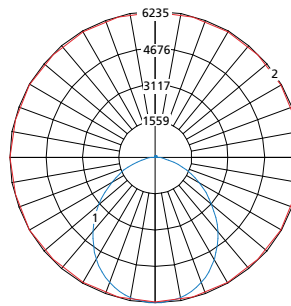
Information Subject to change without notice. Visit www.kenall.com for .ies files and additional information.

Model: NFCSESI-24-50L-40K8-DIM1-24V-PAF-PAH-SYM



Max Candela = 3091 Located At Horizontal Angle = 0, Vertical Angle = 5
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

Model: NFCSESI-24-100L-40K8-DIM1-24V-PAF-PAH-SYM



Max Candela = 6235 Located At Horizontal Angle = 90, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

LUMINAIRE CONNECTION LIMITS PER POWER SUPPLY

Size	Lamp Power	Amps per Luminaire	Max. Luminaires per Power Supply (MRIPSF-480)	Max. Luminaires per Power Supply (MRIPSF-240)	Max. Luminaires per Power Supply (MRIPSF-120)
22	50L	2.98	6	3	1
24	100L	5.96	3	1	0

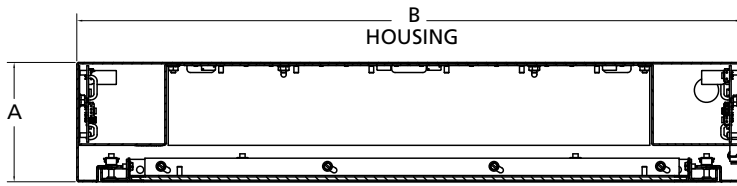
NOTE: Multiple Kenall MRI/Non-Ferrous product types may be powered from a single power supply/filter as long as the maximum current rating is not exceeded (20A - 480W, 10A - 240W, 5A - 120W).



NFCSESI SERIES – TECHNICAL DATA

DIMENSIONAL DATA

CROSS SECTION



DIMENSIONAL DATA (IN INCHES)			
	A	B	C
2x2	4.30	24.00 x 24.00	19.00 x 19.00
2x4	4.30	24.00 x 48.00	19.00 x 43.00

