PROJECT INFORMATION Job Name _____ Catalog Number _____
Fixture Type _____ Approved by _____

SIMPLESEAL™
Luminaires for EMI-Sensitive Cleanrooms

NFCSEDI 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 universal recessed installation into 1.0" or 1.5" grid or flange (drywall) ceilings
- One-piece sealed housing; smooth exterior doorframe and lens for simplified cleaning protocols
- High-output, high CRI LED lamp sources



1'×4' **2'×2'** **2'×4'**

SPECIFICATIONS

HOUSING: Hole-free, one-piece, seam-welded aluminum construction. 0.050" aluminum housing flange with mitered and welded corners. 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: IC-rated installation into recessed grid and drywall ceilings. Flange installation utilizes included adjustable swing-out mounting brackets. Grid installation suitable for 1" and 1.5" T-bar ceilings. Universal installation into grid or flange (drywall) ceiling applications. 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. Suitable for EU GMP Grade A cleanrooms. Compliant with MIL-STD 461G for radiated and conducted emissions. CCEA Approved.

LED · ETL C US · IP65 · NSF · ISO 3 Class 1 · MIL STD 461G · CCEA Approved · BSL 1-2

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

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options
NFCSEDI				**DIM1**	**24V**	**PAF**	**PAH**	**SYM**	

Size
14 1'×4' Nominal
22 2'×2' Nominal
24 2'×4' Nominal

Lamp Power
1'×4'
38L 38 Watt LED
76L 76 Watt LED

2'×2'
50L 50 Watt LED

2'×4'
100L 100 Watt LED

Lamp Color
30K8 3000K, 80 CRI
30K9 3000K, 90 CRI
35K8 3500K, 80 CRI
35K9 3500K, 90 CRI
40K8 4000K, 80 CRI
40K9 4000K, 90 CRI

Driver Type
DIM1 0-10V Dimming to 1% with Dim-to-Dark

Voltage
24V 24VDC Input

Doorframe Options
PAF Fabricated Aluminum in Gloss White

Housing Options
PAH .050" Aluminum in Gloss White

Optics
SYM Symmetric, Diffused DR Acrylic

Options
RM* Continuous Row Mounting
2C• Two-Circuit Wiring

* Only available when installing in drywall ceilings (flange mount). Mullion in aluminum.
• n/a with 38L Lamp Type.

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)

This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Act (TAA), Build America, Buy America Act (BABA), and others. It may be covered by patents found at www.kenall.com/patents.Content of specification sheets is subject to change; please consult www.kenall.com for current product details. ©2025 Kenall Mfg.Co.

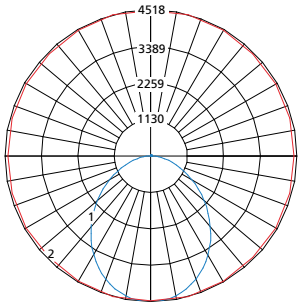
NFCSEDI SERIES – TECHNICAL DATA

PERFORMANCE

Model	Lamp Type	Initial Delivered Lumens (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L_{70} LED Life (Hrs)
NFCSEDI-14	38L-30K8	4,813	100	48	70,000
	38L-30K9	4,160	86	48	70,000
	38L-35K8	4,961	103	48	70,000
	38L-35K9	4,260	89	48	70,000
	38L-40K8	5,131	107	48	70,000
	38L-40K9	4,366	91	48	70,000
	76L-30K8	9,625	100	96	70,000
	76L-30K9	8,320	86	96	70,000
	76L-35K8	9,923	103	96	70,000
	76L-35K9	8,521	89	96	70,000
	76L-40K8	10,261	107	96	70,000
	76L-40K9	8,732	91	96	70,000
NFCSEDI-22	50L-30K8	7,030	116	60	85,000
	50L-30K9	6,077	101	60	85,000
	50L-35K8	7,247	120	60	85,000
	50L-35K9	6,224	103	60	85,000
	50L-40K8	7,495	124	60	85,000
	50L-40K9	6,378	106	60	85,000
NFCSEDI-24	100L-30K8	14,571	120	121	85,000
	100L-30K9	12,595	104	121	85,000
	100L-35K8	15,022	124	121	85,000
	100L-35K9	12,900	106	121	85,000
	100L-40K8	15,535	128	121	85,000
	100L-40K9	13,220	109	121	85,000

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

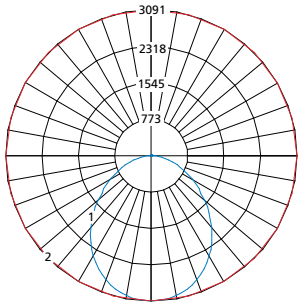
Model: NFCSEDI-14-76L-40K8-DIM1-24V-PAF-PAH-SYM



Max Candela = 4518 Located At Horizontal Angle = 75, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

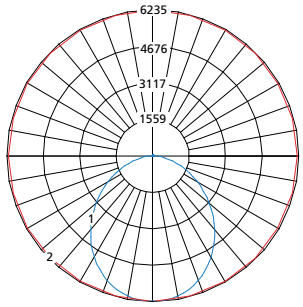
Model: NFCSEDI-22-100L-40K8-DIM1-24V-PAF-PAH-ASYM



Max Candela = 3091 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: NFCSEDI-24-100L-40K8-DIM1-24V-PAF-PAH-FASYM



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

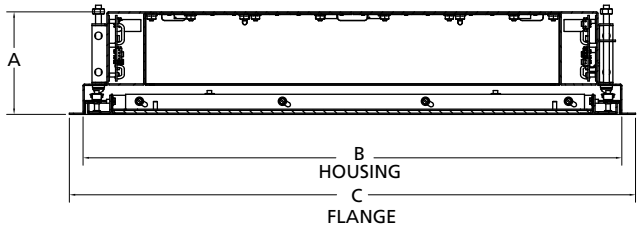
Size	Lamp Power	Amps per Luminaire	Max. Luminaires per Power Supply (MRIPSF-480)	Max. Luminaires per Power Supply (MRIPSF-240)	Max. Luminaires per Power Supply (MRIPSF-120)
14	38L	2.38	8	4	2
	76L	4.76	4	2	1
22	50L	2.98	6	3	1
24	100L	5.96	3	1	0

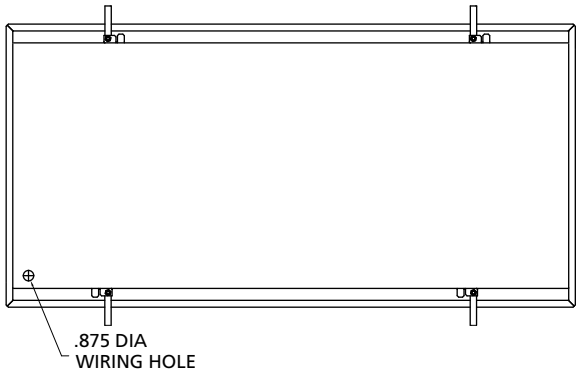
NOTE: Multiple Kenall MRI/Non-Ferrous product types may be powered from a single power supply/filter as long as the maximum current rating is not exceeded (20A - 480W, 10A - 240W, 5A - 120W).

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NFCSEDI SERIES – TECHNICAL DATA

DIMENSIONAL DATA





DIMENSIONAL DATA (IN INCHES)

	A	B	C
1×4	4.30	10.60 × 46.60	11.75×47.75
Recommended Ceiling Cut-Out		10.85 × 46.85	
2×2	4.30	22.60 × 22.60	23.75×23.75
Recommended Ceiling Cut-Out		22.85 × 22.85	
2×4	4.30	22.60 × 46.60	23.75×47.75
Recommended Ceiling Cut-Out		22.85 × 46.85	

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