

MIGHTY MAC™

Luminaires for Security Detention Applications

SDSA SERIES using Indigo-Clean Technology

PRODUCT FEATURES:

- » Provides environmental disinfection and effective, efficient lighting performance via visible LED light
- » Dual-Mode Indigo-Clean Technology is independently tested to kill 94% of SARS CoV-2 and Influenza-A***, in addition to MRSA
- » Single-Mode Indigo-Clean Technology is independently tested to kill harmful bacteria, such as Staph*, including MRSA**
- » Surface ceiling mount
- » TIG-welded housing without post-weld grinding for additional strength
- » Continuous lens retention with thru-studs spaced 6" apart



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS

HOUSING: One-piece die-formed prime grade material as specified – see Ordering Information. Corners continuously seam welded and smooth with no post grinding (TIG). Staked and welded external piano hinge (1/2" knuckle/1/8" diameter pin) standard. See Options for 2" Internal Hinge (IH) and Full Length Internal Hinge (IHF). TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

DOOR: One-piece die-formed prime grade material as specified – see Ordering Information.

LENS: As specified – maximum overall thickness 0.375" – see Ordering Information. High efficiency diffused DR acrylic inner lens. Lens retention by vertically adjustable continuous "Z" brackets of prime grade material, secured to housing via thru-studs (6" maximum spacing).

ELECTRICAL: (Single- and Dual-Mode ICT) Serviceable mid-power white and 405nm Indigo LED array. Available 3200K, 3700K and 4300K color temperatures with 3-step MacAdam variation allowance. Minimum 82 CRI standard. 120-277VAC and 347VAC electrical input with serviceable high power factor electronic, constant-current drivers (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non-dim-to-dark on Dual-Mode ICT). 330µA maximum source current. **Single-Mode ICT** provides a single, white disinfection operational mode. **Dual-Mode ICT** provides two operational modes based on room occupancy. White Disinfection Mode is a white LED array for ambient lighting plus a simultaneous low-power 405nm LED array for low-level, continuous and safe environmental disinfection. Indigo Disinfection Mode is a higher-level 405nm array for continuous safe environmental disinfection during periods of room vacancy. The operational mode is determined via internal low-voltage device based upon the input signal provided by an external control device/system, such as the [IC150](#) product. Luminaire dimming is overridden in this operational state. Refer to the [Kenall Dual-Mode ICT Control Application Guide](#) for further description.

FASTENERS: Hardened security screws as specified – see Ordering Information. Fully recessed.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric information, go to www.kenall.com.

PATENT: US Patent No. 7,431,473.

WARRANTY: Limited five (5) year warranty on LED lamps.

LISTINGS: Luminaire is certified to UL 1598 and UL 8750 standards by Intertek Testing Services for Damp Locations. See Options for Wet Location rating. EPA Est. No. 99283-WI-1.

* Per independent lab report #SGS-09517036476. Contact Kenall for a copy of this report.

** Antimicrobial Activity of a Continuous Visible Light Disinfection System by Rutala, et. al, ID Week 2016.

*** Refer to www.indigo-clean.com for details



ORDERING INFORMATION (Ex: SDSA-4-2/1-34I/82C-37K8-DCC-DV-SYM/9-1-FS)

Model	Size	Hsg./Door Material	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fasteners	Options	
SDSA	4	/			DCC		SYM /			
Nominal Size			Lamp Power			Lens (Inner/Outer)				
4	12" x 48" (30.48cm x 122cm)		55C	55W Single-Mode ICT	G	.125" Clear Polycarbonate				
			82C	82W Single-Mode ICT	7	.187" Clear Polycarbonate				
Housing/Door Material			23I/55C			55W Dual-Mode ICT	8	.187" Clear Tempered Glass		
0	14-Ga CRS (Painted White)		34I/82C			82W Dual-Mode ICT	9	.250" Clear Polycarbonate		
1	16-Ga CRS (Painted White)		Lamp Color				A	.250" Clear Tempered Glass		
2*	18-Ga CRS (Painted White)		32K8			3200K / 82 CRI min.	SYM	Symmetric, Diffused DR Acrylic		
3	14-Ga SS (Painted White)		37K8			3700K / 82 CRI min.			Fasteners	
4	16-Ga SS (Painted White)		43K8			4300K / 82 CRI min.			1	Torx® T-20 Head w/ Center Pin
6	14-Ga SS (Brushed)		Driver Type						2	Allen Head w/ Center Pin
7	16-Ga SS (Brushed)		DCC			Dimming Constant Current LED Driver				
9	12-Ga CRS (Painted White)		Voltage							
			DV			120-277VAC, 50/60Hz				
			347			347VAC, 60Hz				
			Options							
			LELT†			Integral 8.4W Emergency Battery Backup (55W max; 0°C min ambient)				
			LELST†			Integral 6W Self-Testing Emergency Battery Backup (55W max; 0°C min ambient)				
			NLW†			2700K White LED Night Light				
			NLA†			Amber LED Night Light				
			FS			Single Fuse & Holder				
			IH			Internal Hinge				
			IHF			Full Length Internal Hinge				
			KO			1/2" (1.27cm) EMT Knockout				
			WL			Wet Location Listed				
										* n/a as Door Material
										† n/a with 347V input

ACCESSORIES ORDERED SEPARATELY

IC150 External Room Control System for Dual-Mode ICT Products
(click [here](#) for Specifications)



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Not intended for medical use. 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.

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PERFORMANCE

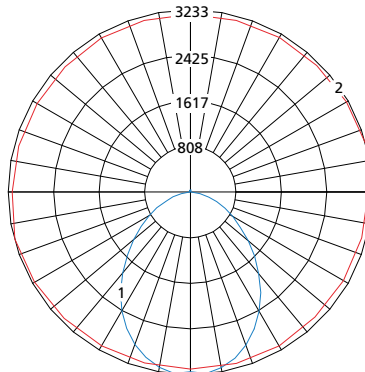
Technology	Size	Lamp Code	Lumen Output by Color (lm) ¹			Efficacy (lm/W)	Power Consumption ²			Estd L70 LED Life (Hrs)
			32K8	37K8	43K8		Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	4	55C	4,232	4,342	4,386	69 - 72	61	51	n/a	80,000
		82C	6,392	6,558	6,625	69 - 71	93	77		
Dual-Mode ICT	4	23I/55C	4,232	4,342	4,386	69 - 72	61	51	29	80,000
		34I/82C	6,392	6,558	6,625	69 - 71	93	77	44	

¹ Lumen output is with the SYM/9 lens type. Information subject to change without notice. Visit www.kenall.com for IES files and additional information.

² Lighting Power and Energy Calculations:

- Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.
- Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-202X. Power used toward germicidal disinfection has been removed for this calculation.
- Use **Unoccupied** and **Occupied Power** for Energy calculations to determine the power consumed over time based on the use of the space.

Model: SDSA-4-2/1-82C-37K8-DCC-DV-SYM/9-1 and SDSA-4-2/1-34I/82C-37K8-DCC-DV-SYM/9-

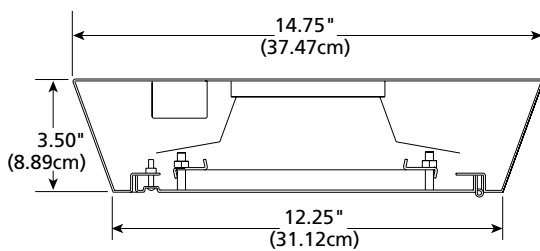


Maximum Candela = 3233 Located At Horizontal Angle = 15, Vertical Angle = 5

- 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



MOUNTING HOLES

