

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 #5GS-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		
			23I/55C	55W Dual-Mode ICT		8	.187" Clear Tempered Glass		
			34I/82C	82W Dual-Mode ICT		9	.250" Clear Polycarbonate		
						A	.250" Clear Tempered Glass		
						SYM	Symmetric, Diffused DR Acrylic		
Housing/Door Material			Lamp Color			Fasteners			
0	14-Ga CRS (Painted White)		32K8	3200K / 82 CRI min.		1	Torx® T-20 Head w/ Center Pin		
1	16-Ga CRS (Painted White)		37K8	3700K / 82 CRI min.		2	Allen Head w/ Center Pin		
2*	18-Ga CRS (Painted White)								
3	14-Ga SS (Painted White)								
4	16-Ga SS (Painted White)								
6	14-Ga SS (Brushed)								
7	16-Ga SS (Brushed)								
9	12-Ga CRS (Painted White)								
			Driver Type			Options			
			DCC			LELT†			
			Dimming Constant Current LED Driver			Integral 8.4W Emergency Battery Backup (55W max; 0°C min ambient)			
			Voltage			LELST†			
			DV	120-277VAC, 50/60Hz		Integral 6W Self-Testing Emergency Battery Backup (55W max; 0°C min ambient)			
			347	347VAC, 60Hz		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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This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. 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. ©2022 Kenall Mfg. Co.

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PERFORMANCE

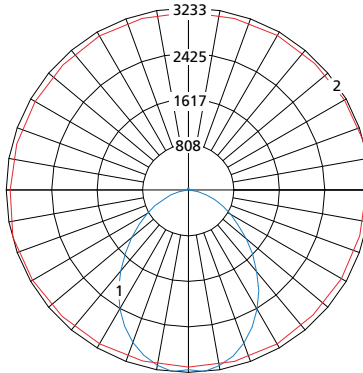
Technology	Size	Lamp Code	Lumen Output by Color (lm) ¹			Efficacy (lm/W)	Power Consumption ²			Estd L70 LED Life (Hrs)
			32K8	37K8	43K8		Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	4	55C	4,232	4,342	4,386	69 - 72	61	51	n/a	80,000
		82C	6,392	6,558	6,625	69 - 71	93	77		
Dual-Mode ICT	4	23I/55C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

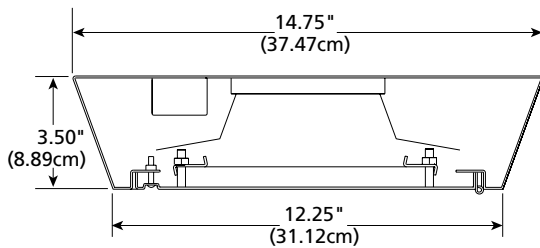


Maximum Candela = 3233 Located At Horizontal Angle = 15, Vertical Angle = 5

- 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

