MIGHTY MAC™

CD SERIES using Indigo-Clean Technology

PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

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 corner mount with hinged door construction
- » TIG-welded housing without post-weld grinding for additional strength

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 Full Length Internal Hinge (IHF). TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

LENS: As specified – maximum 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). Polyurethane foam prevents light leaks from luminaire base.

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

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

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.

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

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 Ordering Information for Wet Location applications. EPA Est. No. 99283-WI-1.

* Per independent lab report #SGS-09S17036476. 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: CD-4-2/1-34I/82C-37K8-DCC-277-SYM/9-FS)

Model	Size	Housing/Door	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fasteners	Options
CD	**4**	**/**			**DCC**		**SYM /**		

Nominal Size
4 8"×48"

Housing/Door Material
0 14-Ga CRS (Painted White)
1 16-Ga CRS (Painted White)
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)

Lamp Power
55C 55W Single-Mode ICT
82C 82W Single-Mode ICT
110C 110W Single-Mode ICT
23I/55C 55W Dual-Mode ICT
34I/82C 82W Dual-Mode ICT
46I/110C 110W Dual-Mode ICT

Lamp Power
32K8 3200K / 82 CRI min.
37K8 3700K / 82 CRI min.
43K8 4300K / 82 CRI min.

Driver Type
DCC Dimming Constant Current

Voltage
DV 120-277VAC, 50/60Hz
347 347VAC, 60Hz

Lens (Inner/Outer)‡
G .125" Clear Polycarbonate
7 .187" Clear Polycarbonate
8 .187" Clear Tempered Glass
9 .250" Clear Polycarbonate
A .250" Clear Tempered Glass
SYM Symmetric, Diffused DR Acrylic

Fastener
1 Torx® T-20 Head w/ Center Pin
2 Allen Head w/ Center Pin

Options
LEL† 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
IHF Full Length Internal Hinge
KO 1/2" EMT Knockout
RGT Removable Gear Tray
SK Speaker Housing Extention
WL Wet Location Listed

* n/a as Door Material
‡ Refer to lens specifications
† 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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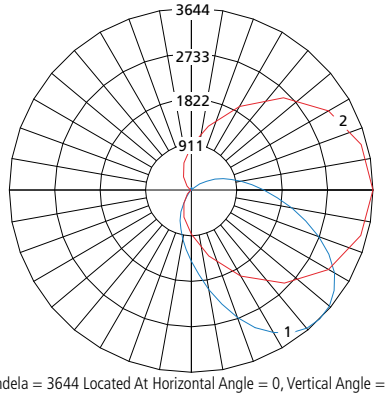
PERFORMANCE

Technology	Length	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	3,890	3,991	4,032	64 - 66	61	51	n/a	80,000
		82C	5,875	6,027	6,088	63 - 65	93	77		
		110C	7,239	7,427	7,503	59 - 62	122	101		
Dual-Mode ICT	4'	23I/55C	3,890	3,991	4,032	64 - 66	61	51	29	80,000
		34I/82C	5,875	6,027	6,088	63 - 65	93	77	44	
		46I/110C	7,239	7,427	7,503	59 - 62	122	101	58	

[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.

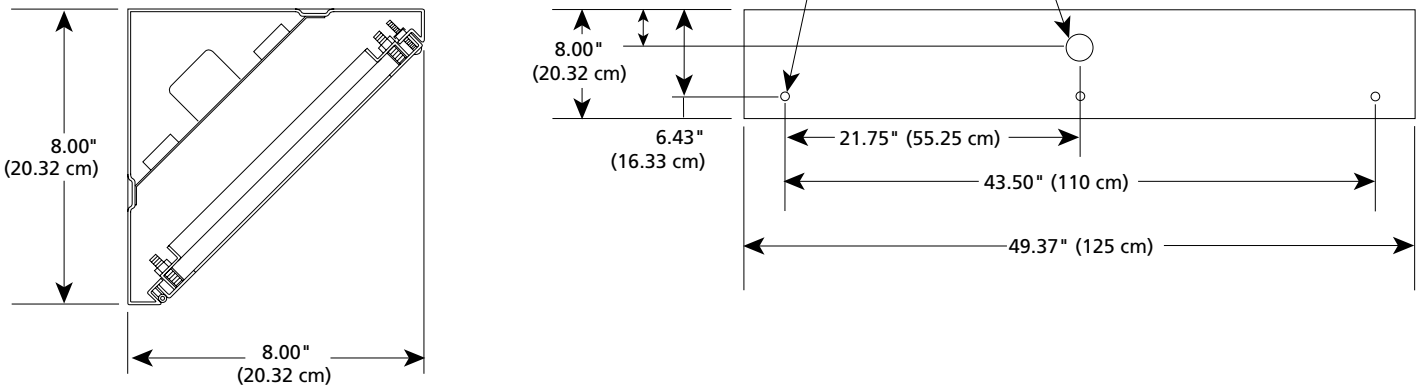
Model: CD-4-2/1-110C-37K8-DCC-DV-SYM/9-1 and
CD-4-2/1-46I/110C-37K8-DCC-DV-SYM/9-1



Maximum Candela = 3644 Located At Horizontal Angle = 0, Vertical Angle = 45

1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

DIMENSIONAL DATA



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