MEDMASTER® TROFFER
Luminaire for General Heathcare Applications
MGT 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***

» Low profile 2' x 2' and 2' x 4' recessed luminaire with grid and flange mounting options

MGT22   MGT24

SPECIFICATIONS

HOUSING: Die-formed 24-gauge steel construction. Low-gloss white TGIC powder coat finish with five-stage pre-treatment.

OPTIC: Snap-in, one-piece extruded frost DR acrylic diffuser.

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 (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). 165µA 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.

INSTALLATION: Suitable for Type-IC recessed ceiling installation into 9/16", 15/16" and slot-T lay-in grid ceilings and flanged drywall ceilings with included flange adapter kit. See Ordering Information for selection. Removable wiring access plate with (2) 7/8" Dia. knockouts. Suitable for 0°C to 25°C ambient temperature environments.

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

WARRANTY: Limited five (5) year warranty.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Damp Location and IC installations. NSF2 Splash/Non-Food Zone. RoHS compliant.

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

ORDERING INFORMATION (Ex: MGT24-G-FA-23I/55C-32K8-DIM1-DV-FS)

Model	Mounting	Lens Type	Lamp Type	Lamp Color	Driver Type	Voltage	Options
		FA			**DIM1**		

Model
MGT22 2'×2'
MGT24 2'×4'

Mounting Options
G Grid (1")
F Flange

Lens Type
FA Frost DR Acrylic

Lamp Power
2×2
28C 28W Single-Mode ICT
12I/28C 28W Dual-Mode ICT

2×4
55C 55W Single-Mode ICT
23I/55C 55W Dual-Mode ICT

Lamp Color
32K8 3200K / 82CRI
37K8 3700K / 82CRI
43K8 4300K / 82CRI

Driver Type
DIM1 0-10V Dimming to 1%

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

Options
FS Fuse & Holder

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MGT SERIES using Indigo-Clean Technology

PERFORMANCE

Technology	Size	Lamp Code	Lumen Output by Color (lm)[1]			Efficacy (lm/W)	Power Consumption[2]			Estd. L_70 LED Life (Hrs)
			32K8	37K8	43K8		Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	2 x 2	28C	2,821	2,894	2,924	89 - 92	32	26	0	80,000
	2 x 4	55C	5,580	5,725	5,783	92 - 95	61	51		
Dual-Mode ICT	2 x 2	12I/28C	2,821	2,894	2,924	89 - 92	32	26	15	80,000
	2 x 4	23I/55C	5,580	5,725	5,783	92 - 95	61	51	29	

[1]Information subject to change without notice. Visit www.kenall.com for IES files and additional information.
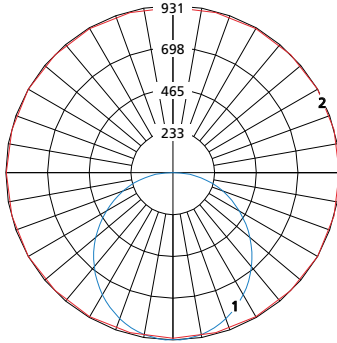
[2]Lighting Power and Energy Calculations:
 Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.

 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 can be 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.
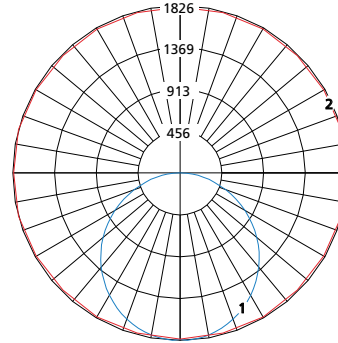
Model: MGT22-FA-28C-43K8-DIM1 and
MGT22-FA-12I/28C-43K8-DIM1

Maximum Candela = 931 Located At Horizontal Angle = 30, Vertical Angle = 2.5

— 1 - Vertical Plane Through Horizontal Angles (30-210) (Through Max. Cd.)
— 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

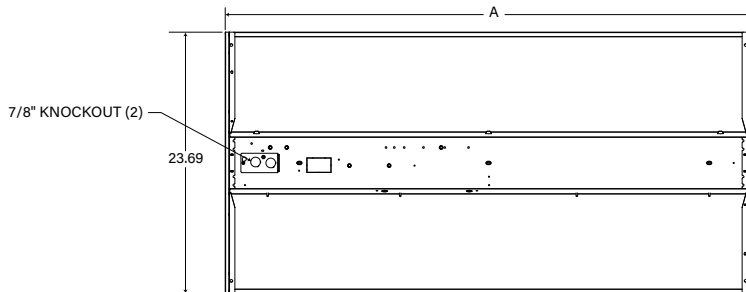Model: MGT24-FA-55C-43K8-DIM1 and
MGT24-FA-23I/55C-43K8-DIM1

Maximum Candela = 1826 Located At Horizontal Angle = 15, Vertical Angle = 2.5

— 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
— 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DIMENSIONAL DATA

TOP VIEW

7/8" KNOCKOUT (2)

23.69

A

DIMENSIONAL DATA (IN INCHES)

A
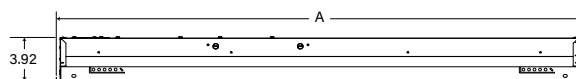
MGT22   23.69"
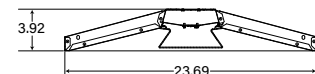Recommended ceiling cutout for 2×2 Flange Frame Kit is **24.50"×24.50"**

MGT24   47.69"
Recommended ceiling cutout for 2×4 Flange Frame Kit is **48.50"×24.50"**

SIDE VIEW

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3.92

FRONT VIEW

3.92

23.69