STARMED™ M1 LED SERIES

NewStarLighting

PROJECT: _____

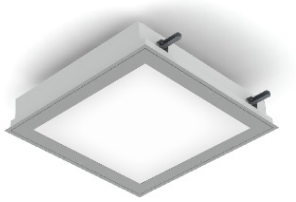
TYPE: _____

PRODUCT: _____

APPROVED BY: _____

PRODUCT FEATURES

- Intended for Exam Rooms, Procedure Rooms, Recovery Areas, Skilled Nursing, and more
- Ambient luminaire available in 2x2
- Surface, Grid or Flange installation
- Fixture is certified to UL standards by Intertek Testing Laboratory for damp locations
- This product was Made in America and complies with the Buy American Act (BAA), and the Build America, Buy America Act (BABAA)



M1 Series

ORDERING INFORMATION

Example: M1U22-HC/IC-L440-1C-E-90C-UN-DM1

M1		22		/		
Series	**Mounting** **U** = Surface/Grid **F** = Flange	**Size*** **22** = 2x2 *Nominal Size. Dimensional Data on Page 2.	**Housing** **HC** = 20Ga. CRS Painted **HS** = 20Ga. SS Brushed **HP** = 20Ga. SS Painted **HA** = 16Ga. Alum. Painted	**Inset Frame** **IC** = 18Ga. CRS Painted **IA** = 16Ga. Alum. Painted **IB** = 18Ga. SS Brushed **IS** = 18Ga. SS Painted	**Lumen Output*** **L4** = Low **L6** = Standard **L8** = High *Subject to change. Performance data on Page 3.	**Color Temp.** **35** = 3500K **40** = 4000K **50** = 5000K **TW1** = Tunable White 2700K to 5000K **TW2** = Tunable White 2700K to 6500K **BIOS Options:*** **BIOS Color Temp.**** B30 = 3000K B35 = 3500K B40 = 4000K **BIOS Tunable CCT**** BTW1 = 2700K-3500K BTW2 = 2700K-4000K *Choosing this, you must also pick a BIOS driver under the Driver column. **Please choose corresponding BIOS driver.

		90C			
Circuits **1C** = 1 Circuit **2C** = 2 Circuits* *Allows for Inboard/ Outboard control.	**Lens** **E** = .125 White Frosted Poly. **F** = .125 White Frosted Acrylic	**CRI** **90C** = 90 CRI	**Voltage** **12** = 120V **27** = 277V **34** = 347V **UN** = Universal (120V-277V)	**Driver Type** **DM1** = 0-10V Dimming to 1% **Tunable White Driver⁺:** **TWD** = 2-Channel 0-10V DALI8 **DALI8** = 1-Channel DALI8 **BIOS Driver:*** **STC** = Static BIOS** **DMB** = Dynamic BIOS Dimming*** ⁺ Tunable White Driver requires choice of TW1 or TW2 in Color Temp. column. *BIOS drivers only work with BIOS LEDs. Must select STC or DMB option, otherwise leave field blank and standard 0-10V driver will be provided. **0-10V with Dimming from 1%-100%. ***0-10V Intensity Dimming to 1% and Dim-to-Dark capabilities.	**Options** **FZ1** = Fuse (120V) **FZ2** = Fuse (277V) **EL1** = Emerg. Bat. LED Low (10W) **RF** = (RIF) Radio Interference Filter* **TH** = Tamper-resistant Torx® head fasteners **LN** = LED Night Light** *Not available for 347V. **3500K non-dimming Night Light with integrated switch allows light levels at 100%, 70%, 40% and 10%.

New Star Lighting
2225 W Pershing Rd, Chicago, IL 60609
(773) 847-1400
www.newstarlighting.com

Specifications and dimensions are subject to change without notice. For additional options and dimensional details, please consult your New Star Lighting representative.

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SPECIFICATIONS

HOUSING: 20-Gauge formed cold rolled steel housing with seam welded and ground smooth. Aluminum and stainless steel options available.

DOORFRAME: Inset 18-gauge formed cold rolled steel or stainless steel door frame. Optional 16-gauge aluminum also available.

LENS: .125" White polycarbonate or acrylic lens for maximum light diffusion while maintaining proper exam lumen output.

LED: Available in three color temperatures 3500K, 4000K, and 5000K with maximum 3-step MacAdam variation allowance. Tunable White also available, from 2700K - 5000K or 2700K - 6500K. Minimum 50,000 hours with 70% lumen maintenance in a 25°C ambient temperature environment, compliant with IES LM-80 testing standards.

Optional BIOS® SkyBlue® circadian solutions to produce the healthy "blue sky" light signal with blue spectrum peak at 490nm+ for circadian entrainment. Bio-Dimming™ reduces CCT by 2700K.

ELECTRICAL: 120-277VAC or 347VAC 50/60HZ electrical input high power factor electronic, constant current driver (<20% THD, >0.90 PF). Standard 0-10V dimming with 1-100% range.

OPTIONAL TUNABLE WHITE DRIVERS:

DALI8- DALI Type 8 (One DALI Address)
TW0- Two Channel 0-10V dimming; one channel for brightness, one channel for CCT

OPTIONAL BIOS DRIVER OPTIONS:

STC - BIOS control 0-10V with Dimming from 1%-100% and Dynamic Bios Dimming with 0-10V Intensity Dimming to 1% and Dim-to-Dark capabilities.
DMB - Dynamic BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™, which changes a spectral qualities by removing the SkyBlue component when dimming from 100%-51%, while light output remains relatively constant; CCT will decrease approximately 500K through bio-dimming; dimming from 50% to 1% will then reduce light output.

FASTENERS: Stainless steel Philips flat head fasteners with captive cage nuts. Finish to match doorframe.

FINISH: White antimicrobial polyester powder coat finish following multi-stage iron phosphate pretreatment on all exposed room-side painting surfaces, unless otherwise specified.

GASKET: Closed cell EPDM and closed cell silicone gaskets prevent air contaminants from entering the fixture.

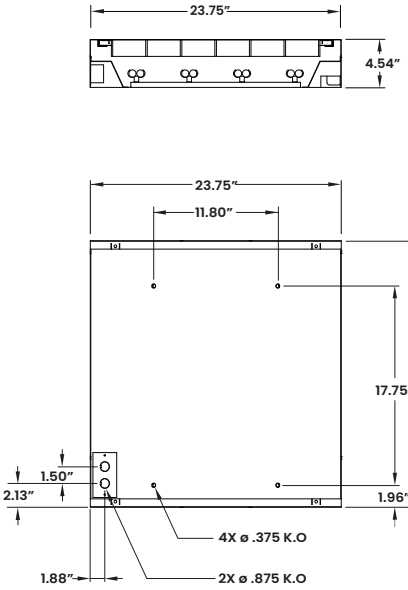
INSTALLATION: Recessed Grid or Flange installation. Compatible with 1-1/2" and 15/16" Grid systems. Mounting for custom ceilings available, consult factory.

WARRANTY: 5 Year Warranty.

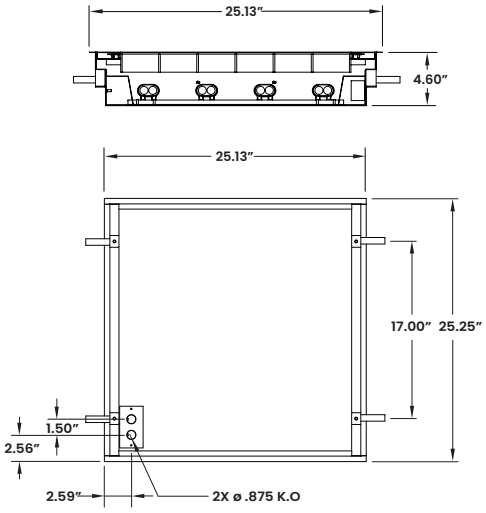
LABEL: Fixture is Damp Location certified to UL standards by Intertek Testing Laboratory. This product is Made in America and complies with Buy American Act (BAA), and the Build America, Buy America Act (BABAA).

DIMENSIONAL DATA

M1U22



M1F22



RECOMMENDED CEILING CUT-OUT
24-3/8"x24-3/8"

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PERFORMANCE DATA*

*Delivered lumens are subject to change.

MODEL	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/W)	INPUT POWER (W)
M1	L4 = Low	3500K	6000	120	50
		4000K	6250	125	50
		5000K	6500	130	50
	L6 = Standard	3500K	8625	115	75
		4000K	9000	120	75
		5000K	9375	125	75
	L8 = High	3500K	11500	115	100
		4000K	12000	120	100
		5000K	12500	125	100

THIS ONLY PERTAINS TO BIOS PERFORMANCE DATA*

*LEDs are frequently updated therefore values may change without notice.

MODEL	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/W)	INPUT POWER (W)
bios ILLUMINATED M1	L4 = Low	3000K	5247	99	53
		3500K	5300	100	53
		4000K	5512	104	53
	L6 = Standard	3000K	7426	94	79
		3500K	7505	95	79
		4000K	7900	100	79
	L8 = High	3000K	9964	94	106
		3500K	10070	95	106
		4000K	10600	100	106

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