

MEDMASTER™ FLAIR

MFS SERIES – SYNCHRONOUS ENGINE LAMPING

PRODUCT FEATURES:

- » Synchronous center and perimeter light engines with unified illumination and control
- » Edge-lit, diffused center and near-translucent clear perimeter lenses provide unique lighting aesthetic within this product segment
- » Static and tunable white lamping options; native amber for nighttime operation
- » Surface wall or ceiling installation
- » 14" or 18" nominal diameter with 2" overall depth
- » NSF2 and IP64 rating for cleanability in healthcare applications



SPECIFICATIONS

HOUSING: Die-cast aluminum baseplate and frontal heat sink trim. Standard TGIC polyester powder coat finish on aluminum components with five-step pre-treatment to withstand 1,000-hour salt spray test per ASTM B117. See Ordering Information for available finishes. Closed cell gasketing seals all housing component interfaces.

OPTICAL: Injection-molded UV-stabilized polycarbonate outer lenses for center and perimeter light engines. Textured clear perimeter light guide for unique illuminated effect but near transparent non-illuminated appearance. Center light engine utilizes inner acrylic light guide to provide uniformity from edge-lit light source, in conjunction with diffused polycarbonate outer lens.

LAMPING: Available 3000K, 3500K and 4000K static white color temperatures with 3-step MacAdam variation allowance, or native 590 nm amber. Optional tunable white LED array provides 2700K through 6500K CCT range with a two-point path. Minimum 80 CRI standard (R9 >0) with optional minimum 90 CRI (R9 >50). 360° edge-lit center lamping and perimeter lamping are constructed with the same color specification LED and operate on the same driver. See dual-function MFD product for independent color and control configurations.

ELECTRICAL: Fixed White & Amber: 120-277VAC and 347VAC, 50/60Hz electrical input with serviceable high-power factor electronic, constant-current driver (<20% THD, >0.90 PF). Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities; 0.2mA source current per luminaire. Optional DALI-2 DT6 driver with 1-100% dimming range without dim-to-dark capabilities. Tunable White: 120-277VAC, 50/60Hz electrical input with serviceable, constant current multi-channel programmable driver with dual analog (0-10V) control inputs for intensity and CCT. Optional DALI-2 DT8 driver. Logarithmic intensity profile with 0.1-100% range, with dim-to-dark capabilities. Linear profile on CCT adjustment. Refer to charts on page 2 for further details.

SENSOR & CONTROLS: Optional embedded microwave motion sensor mounted behind center diffuser. Factory default is 30% dimming and 20min. timeout. Custom settings available upon request. Sensor operates at 5.8 GHz (continuous-wave radar) and provides 360° coverage. Retains CCT control in tunable white (TW) instances. To see the full list of third-party compatible controls, [click here](#).

INSTALLATION: Suitable for surface wall or ceiling installations over recessed junction box. 0°C to 40°C ambient environments, unless otherwise noted. Anchored four-point mounting required. Trim assembly secured to baseplate with three (3) face-mounted, color-matched, Philips fasteners.

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 LED warranty.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Location Wall and Covered Ceiling; listing includes Emergency Battery Pack "LEL" option. IP64 rating per IEC 60598. NSF2 Splash/Non-Food Zone rated. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08.



ORDERING INFORMATION (Ex: MFS14-CS-PP-28T-27/65K9-ATW-DV)

Model	Finish	Optic Type	Lamp Power	Lamp Color	Driver	Voltage	Options
PP							
Model		Lamp Power			Driver Type		
MFS14	14" Nominal Diameter	18"			DIM1	0-10V Dimming to 1% with Dim-to-Dark	
MFS18	18" Nominal Diameter	16L	16 Watt White LED		DALI	DALI-2 DT6 Dimming to 1% without Dim-to-Dark	
		24L	24 Watt White LED		ATW	Analog (0-10V) Dimming (Tunable White)	
		33L	33 Watt White LED		DTW	DALI-2 DT8 Dimming (Tunable White)	
Finish		45L[‡]	45 Watt White LED				
MW	Antimicrobial Matte White	58L	58 Watt White LED				
WS	Warm Satin Painted Anodized	32T	32 Watt Tunable White LED		Voltage		
CS	Cool Satin Painted Anodized	42T	42 Watt Tunable White LED		DV	120-277VAC, 50/60Hz	
BR	Bronze	24NA	24 Watt 590 nm Native Amber LED		347	347VAC, 60Hz (DIM1 only)	
LG	Light Gray	42NA	42 Watt 590 nm Native Amber LED				
CC	Custom Color (Consult factory)				Options		
Optic Type		Lamp Color†			LEL*	Integral 4W Emergency Battery Backup	
PP	Pearlescent Polycarbonate	30K8	3000K / 80 CRI min.		FS[‡]	Single Fuse & Holder	
		35K8	3500K / 80 CRI min.		MS ▲	Embedded Motion Sensor	
Lamp Power		35K9	3500K / 90 CRI min.				
14"		40K8	4000K / 80 CRI min.				
10L	10 Watt White LED	40K9	4000K / 90 CRI min.				
16L	16 Watt White LED	27/65K8▼	2700K-6500K Tunable / 80 CRI min.				
22L	22 Watt White LED	27/65K9▼	2700K-6500K Tunable / 90 CRI min.				
30L	30 Watt White LED						
38L[‡]	38 Watt White LED						
28T	28 Watt Tunable White LED						
38T	38 Watt Tunable White LED						
16NA	16 Watt 590 nm Native Amber LED						
28NA	28 Watt 590 nm Native Amber LED						

◇ n/a with 347V
 ‡ n/a with Native Amber Lamp Power
 ▼ Only available with Tunable White Lamp Power
 * n/a 347V; n/a in conjunction with TW lamping or MS option;
 14" only: n/a in conjunction with FS option;
 18" only: n/a with 58L w/DALI
 ▲ n/a with 347V, DALI, ATW/DTW, or in conjunction with LEL.
 14": n/a with 38L lamp or FS option; 18": 33L max.



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For additional photometry, go to www.kenall.com

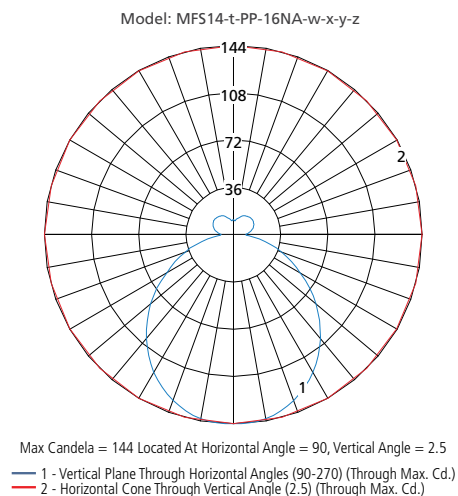
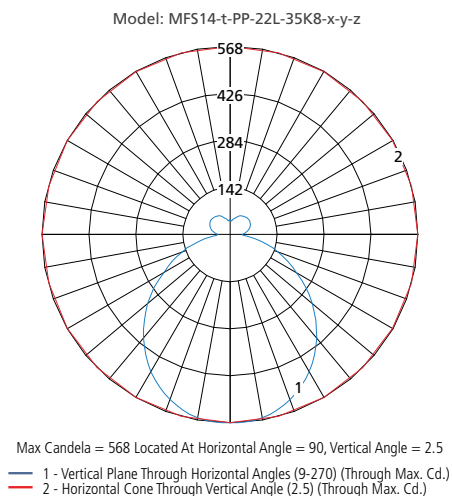
MFS SERIES – SYNCHRONOUS ENGINE LAMPING PERFORMANCE

Model	Lamp Code	Initial Delivered Lumens, By Lamp Color (lm)					Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
		30K8	35K8	35K9	40K8	40K9			
MFS14	10L	981	1,013	927	1,066	949	72 - 83	13	>72,000
	16L	1,453	1,501	1,374	1,580	1,406	72 - 82	19	
	22L	1,948	2,011	1,842	2,117	1,884	71 - 82	26	
	30L	2,696	2,784	2,550	2,931	2,608	73 - 83	35	
	38L	3,280	3,387	3,102	3,565	3,173	74 - 85	42	
MFS18	16L	1,397	1,443	1,321	1,519	1,352	70 - 81	19	>72,000
	24L	2,081	2,148	1,968	2,262	2,013	68 - 79	29	
	33L	2,756	2,846	2,606	2,996	2,666	68 - 78	38	
	45L	4,022	4,153	3,804	4,372	3,891	76 - 87	50	
	58L	4,587	4,737	4,338	4,986	4,438	65 - 75	67	

Model	Lamp Code	Initial Delivered Lumens (lm)	Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
		590 nm Native Amber			
MFS14	16NA	508	25	20	>60,000
	28NA	647	18	36	
MFS18	24NA	735	25	29	>60,000
	42NA	1,006	19	52	

Model	Lamp Code	Initial Delivered Lumens at 4000K (lm)		Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
		27/65K8	27/65K9			
MFS14	28T	2,300	1,945	63 - 75	31	>72,000
	38T	3,038	2,569	63 - 75	41	
MFS18	32T	2,316	1,959	60 - 71	33	>72,000
	42T	3,553	3,005	64 - 75	47	

NOTE: Information subject to change without notice. All testing conducted by an ILAC/ISO17025 accredited laboratory. Please visit www.kenall.com for IES files and additional information.



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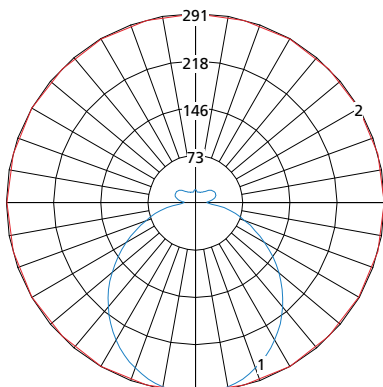
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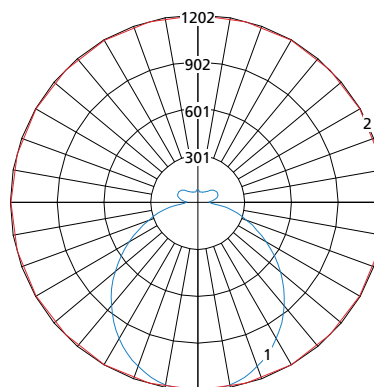
Model: MFS18-t-PP-42NA-w-x-y-z



Max Candela = 291 Located At Horizontal Angle = 90, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (90-270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MFS18-t-PP-45L-35K8-x-y-z



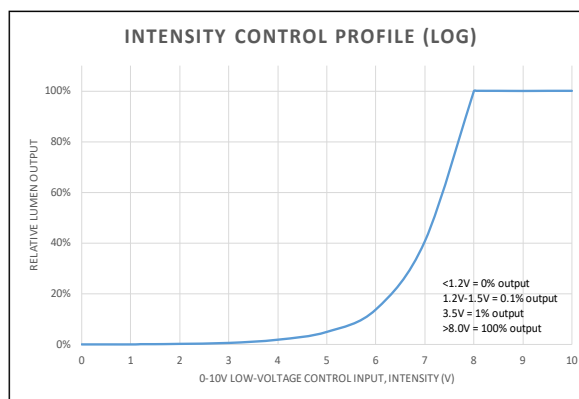
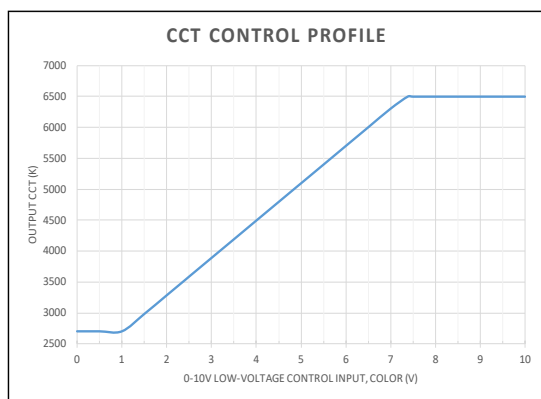
Max Candela = 1202 Located At Horizontal Angle = 90, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (90-270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

PERFORMANCE SCALING, BY LAMP COLOR

CCT (K)	27/65K8					27/65K9				
	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.92	83	10	83	97	0.95	92	57	89	98
3000	0.95	84	15	83	98	0.97	94	70	91	99
3500	0.99	86	23	84	98	0.99	95	77	92	99
4000	1.00	86	26	84	98	1.00	96	83	92	99
4600	1.00	86	28	84	98	1.00	96	90	92	100
5000	1.01	86	25	83	98	1.01	96	96	91	101
5700	0.99	85	23	82	98	0.99	96	96	91	100
6500	0.99	84	16	82	96	0.99	96	96	90	100

CCT AND INTENSITY ADJUSTMENT PROFILE - ATW DRIVER TYPE



NOTE: The provided information is the typical expected performance of a single luminaire. Additional luminaires on the same 0-10V line may result in different control profiles. Fine tuning of system performance should be completed after installation is complete. To avoid CCT shift between luminaires, care should be taken to minimize voltage drop on the CCT Control line.



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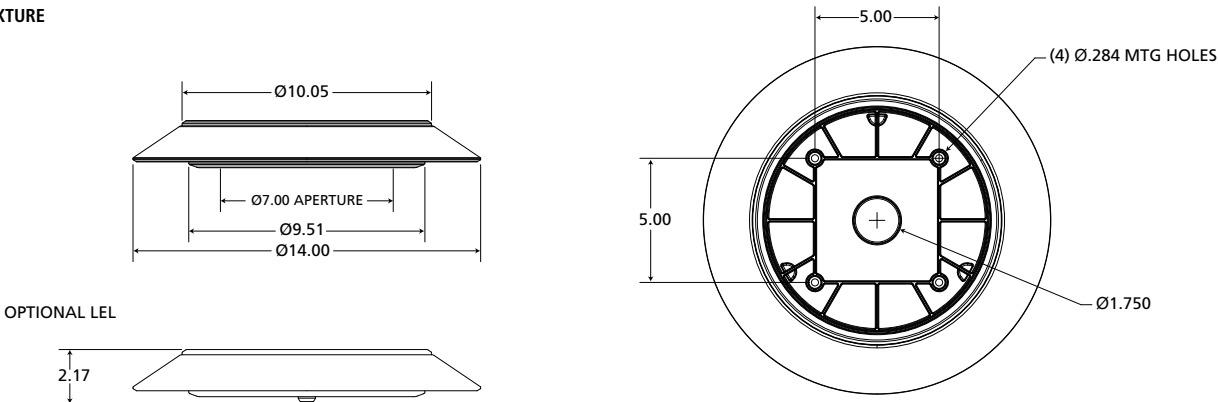
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DIMENSIONAL DATA

14" FIXTURE



18" FIXTURE

