

## MILLENIUM™ FLAIR

### HAFS SERIES – SYNCHRONOUS ENGINE LAMPING

#### PRODUCT FEATURES:

- » Synchronous center and perimeter light engines with unified control
- » Edge-lit, diffused center and near-translucent clear perimeter lenses provide unique lighting aesthetic within this product segment
- » Static white color; native amber color for wildlife protection applications
- » Surface wall or ceiling installation
- » 14" or 18" nominal diameter with 2" overall depth
- » IK10 impact rating and Peace of Mind Guarantee® against breakage



#### SPECIFICATIONS

**HOUSING:** Die-cast aluminum baseplate and frontal heat sink trim. Optional die-cast aluminum surface-mount adapter for use with conduit. 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 color temperatures with 3-step MacAdam variation allowance, or native 590 nm amber. Standard 80 CRI min, optional 90 CRI min. on white. 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 HAFD product for independent color and control configurations.

**ELECTRICAL:** 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.

**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. To see the full list of third-party compatible controls, [click here](#).

**INSTALLATION:** Suitable for surface wall or ceiling installations over recessed junction box. -30°C to 40°C ambient environments, unless otherwise noted. Available surface adapter for applications requiring surface-run conduit or photocell control. Anchored four-point mounting required. Trim assembly secured to baseplate with three (3) face-mounted, color-matched, tamper-resistant Torx® 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](http://www.kenall.com).

**WARRANTY:** Limited five (5) year LED warranty. Peace of Mind Guarantee® against breakage.

**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. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08.



#### ORDERING INFORMATION (Ex: HAFS18-MW-PP-24L-30K8-DIM1-DV-LEL)

Model	Finish	Optic Type	Lamp Power	Lamp Color	Driver	Voltage	Options	Accessory
PP								
Model			Lamp Power			Voltage		
HAFS14 14" Nominal Diameter			14"			DV 120-277VAC, 50/60Hz		
HAFS18 18" Nominal Diameter			10L 10 Watt White LED			120 120VAC, 60Hz		
			16L 16 Watt White LED			277 277VAC, 60Hz		
			22L 22 Watt White LED			347 347VAC, 60Hz (DIM1 only)		
Finish			30L 30 Watt White LED					
MW Matte White			38L* 38 Watt White LED					
MB Matte Black			16NA 16 Watt 590 nm Native Amber LED			Options		
WS Warm Satin Painted Anodized			28NA 28 Watt 590 nm Native Amber LED			LEL* Integral 4W Emergency Battery Backup		
CS Cool Satin Painted Anodized						BPC-SA* Photo Control – Shielded Button Type with Die-cast Surface Adapter		
BR Bronze						FS* Single Fuse & Holder		
DB Dark Bronze			18"			NAT Suitable for Natatorium applications		
LG Light Gray			16L 16 Watt White LED			MS‡ Embedded Motion Sensor		
CC Custom Color (Consult factory)			24L 24 Watt White LED			Accessories		
			33L 33 Watt White LED			SA Die-Cast Surface Adapter for Conduit (non-compliant with ADA)		
Optic Type			45L* 45 Watt White LED					
PP Pearlescent Polycarbonate			58L 58 Watt White LED					
			24NA 24 Watt 590 nm Native Amber LED					
			42NA 42 Watt 590 nm Native Amber LED					
			Lamp Color*					
			30K8 3000K / 80 CRI min.			* n/a 347V; 0°C min. ambient; n/a in conjunction with MS option; 14" only: n/a in conjunction with FS option; 18" only: n/a with 58L w/DALI		
			35K8 3500K / 80 CRI min.			▼ n/a with Native Amber Lamp Power		
			35K9 3500K / 90 CRI min.			▲ 120 or 277V input only; non-compliant with ADA		
			40K8 4000K / 80 CRI min.			‡ n/a with 347V, DALI or in conjunction with LEL; 14" only: n/a with 38L lamp or FS option; 18" only: 33L max.		
			40K9 4000K / 90 CRI min.					
			Driver Type					
			DIM1 0-10V Dimming to 1% with Dim-to-Dark					
			DALI DALI-2 DT6 Dimming to 1% without Dim-to-Dark					

\* n/a 347V; 0°C min. ambient; n/a in conjunction with MS option;  
 14" only: n/a in conjunction with FS option;  
 18" only: n/a with 58L w/DALI  
 ▼ n/a with Native Amber Lamp Power  
 ▲ 120 or 277V input only; non-compliant with ADA  
 ‡ n/a with 347V, DALI or in conjunction with LEL; 14" only: n/a with 38L lamp or FS option; 18" only: 33L max.



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For additional photometry, go to [www.kenall.com](http://www.kenall.com)

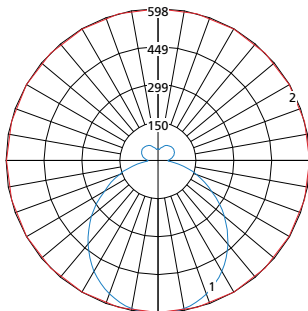
## HAFS SERIES – SYNCHRONOUS ENGINE LAMPING PERFORMANCE

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			
HAFS14	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	
HAFS18	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			
HAFS14	16NA	508	25	20	>60,000
	28NA	647	18	36	
HAFS18	24NA	735	25	29	>60,000
	42NA	1,006	19	52	

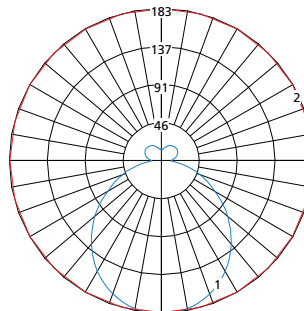
NOTE: Information subject to change without notice. All testing conducted by an ILAC/ISO17025 accredited laboratory. Please visit [www.kenall.com](http://www.kenall.com) for IES files and additional information.

Model: HAFS14-s-PP-22L-40K8-x-y-z



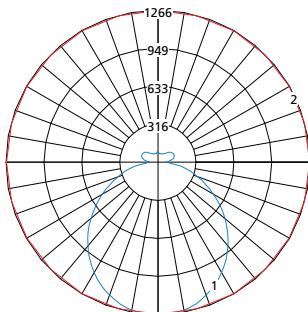
Max Candela = 598 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
 1 - Vertical Plane Through Horizontal Angles (90-270) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: HAFS14-t-PP-28NA-w-x-y-z



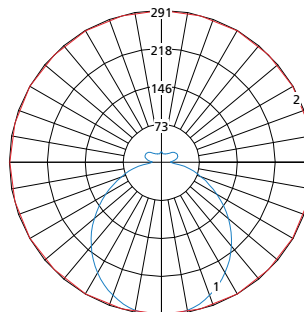
Max Candela = 183 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
 1 - Vertical Plane Through Horizontal Angles (90-270) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: HAFS18-s-PP-45L-40K8-x-y-z



Max Candela = 1266 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: HAFS18-s-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.)



[www.kenall.com](http://www.kenall.com) | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA  
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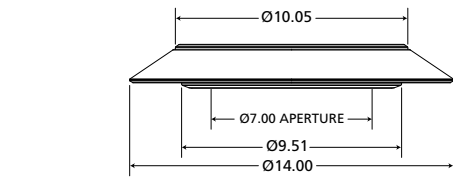
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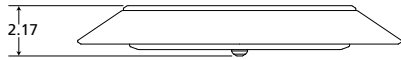
## HAFS SERIES – SYNCHRONOUS ENGINE LAMPING

### DIMENSIONAL DATA

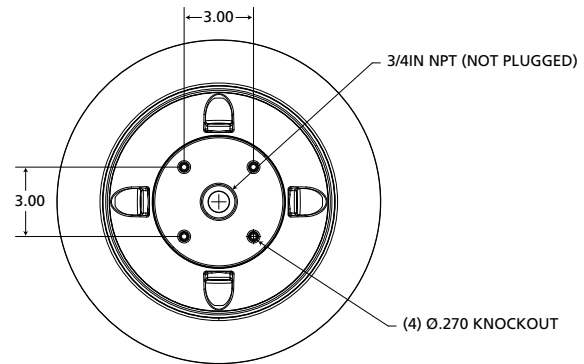
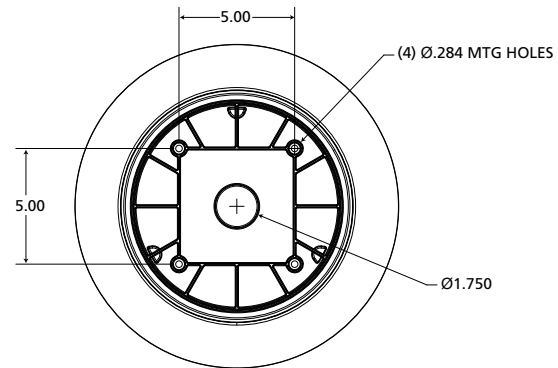
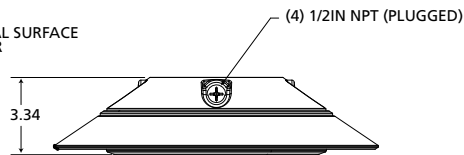
#### 14" FIXTURE



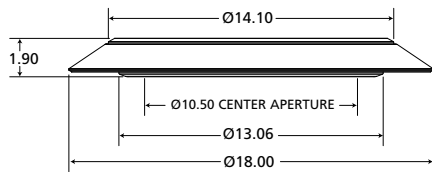
#### OPTIONAL LEL



#### OPTIONAL SURFACE ADAPTER



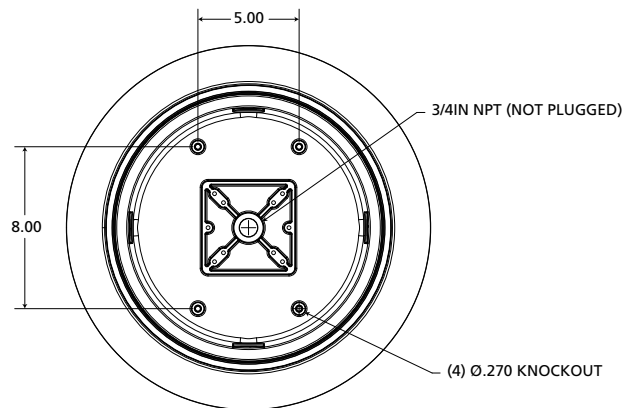
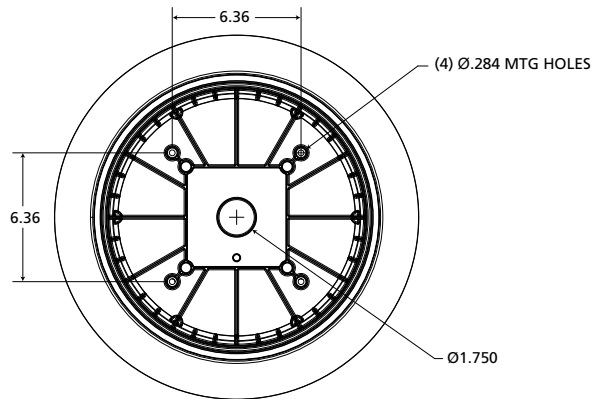
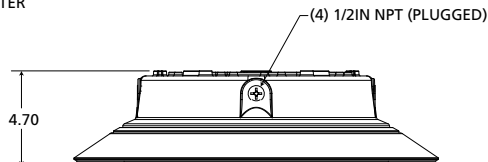
#### 18" FIXTURE



#### OPTIONAL LEL



#### OPTIONAL SURFACE ADAPTER



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