PROJECT INFORMATION Job Name _____ Catalog Number _____
Fixture Type _____ Approved by _____

MILLENIUM™ SATURN

HASD SERIES – DUAL-ENGINE LAMPING



PRODUCT FEATURES:

» Center and perimeter light engines with independent illumination and control

» Center light engine with static white LED

» Perimeter light engine with static white, static color, RGB, RGBW, or switchable (white and color)

» Surface wall or ceiling installation

» 14" or 18" nominal diameter with 2" overall depth

» Available embedded motion sensor in 18" model

» 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 diffused UV-stabilized polycarbonate outer lenses for center and perimeter light engines. Center light engine utilizes inner acrylic light guide to provide uniformity from edge-lit light source.

LAMPING: Center: 360° edge-lit illumination. Available 3000K, 3500K and 4000K white color temperatures with 3-step MacAdam variation allowance. Standard 80 CRI min, optional 90CRI min. Perimeter: Circumferential back-lit lamping. Available matching color temperature source to center white light engine. Available static color source in 630 nm native red, 590 nm native amber, phosphor-converted mint or 500 nm cyan; inquire with factory on other available static color options. Available Switchable engine on 18" model provides white light and native amber or native red, controlled by internal device based on signal input; see Control for further description. Available RGB (red-green-blue) in 14" model for dynamic and mixed lighting scenes. 18" model features RGBW perimeter lamping which includes a 2500K, 70 CRI white LED for the broadest color gamut and white color matching; a 90 CRI center lamp color is recommended in conjunction. The RGB(W) package uses phosphor-converted red, phosphor-converted green and native blue source for longevity.

ELECTRICAL: 120-277VAC, 50/60Hz electrical input with serviceable high-power factor electronic, constant-current drivers (<20% THD, >0.90 PF). 347VAC input available in DIM1 driver configurations. DIM1: Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities; independent dimming control of center and perimeter lamping functions. 0.2mA source current per luminaire, per dimming line. DALI: Optional DALI-2 DT6 driver with 1-100% dimming range without dim-to-dark capabilities. Independent addressing and control of lamping functions. DMX: DMX-RDM compatible driver with 0.1-100% dimming range and dim-to-dark. (14" model) One four-channel driver powers both the static white center and the RGB perimeter lamp functions; four total DMX network addresses. (18" model) One driver powers the static white center and another driver powers the RGBW perimeter; five total DMX network addresses.

SENSOR & CONTROLS: (18" Model) Optional embedded microwave motion sensor (MS) 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. Switchable perimeter lamping utilizes Kenall-developed internal device to switch between white or colored sources based on voltage of sensing input (10V = white, ≤5V = color). When MS option is ordered in conjunction with switchable perimeter, the product is factory wired to have both lamp functions operate in white output state during occupancy. In periods of unoccupancy, the center lamp turns off and the perimeter changes to the specified color. This is intended to be a 'night light' or 'wildlife friendly' operational mode. 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) concealed, 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.

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.

PEACE OF MIND Guarantee® · ETL LISTED · IP64 · IK10 · ADA

ORDERING INFORMATION (Ex: HASD18-MW-PP-16L/24L/18R-35K8-DIM1-DV-MS)

Model	Finish	Optic Type	Lamp Type (Center/Perimeter)	Lamp Color	Driver	Voltage	Options	Accessory
		PP	/					

Model
HASD14 14" Nominal Diameter
HASD18 18" Nominal Diameter

Finish
MW Matte White
MB Matte Black
WS Warm Satin Painted Anodized
CS Cool Satin Painted Anodized
BR Bronze
DB Dark Bronze
LG Light Gray
CC Custom Color (Consult factory)

Optic Type
PP Pearlescent Polycarbonate

Lamp Type: Center Engine
14"
10L 10 Watt White LED
16L 16 Watt White LED
22L 22 Watt White LED

18"
16L 16 Watt White LED
24L 24 Watt White LED
33L 33 Watt White LED

Lamp Type: Perimeter Engine
14"
16L‡ 16 Watt Static White
12R 12 Watt Static Red
12NA 12 Watt Static Amber
6PM 6 Watt Static Mint
8CY 8 Watt Static Cyan
PXX Custom Static Light Color (consult factory)
16RGB 16 Watt Dynamic RGB Color

18"
24L‡ 24 Watt Static White
18R 18 Watt Static Red
18NA 18 Watt Static Amber
8PM 8 Watt Static Mint
12CY 12 Watt Static Cyan
PXX Custom Static Light Color (consult factory)
24L/18R‡ Switchable Color in White and Red
24L/18NA‡ Switchable Color in White and Amber
24M 24 Watt Dynamic RGBW Color (must pair with 24L center)

Lamp Color
30K8 3000K / 80 CRI min.
35K8 3500K / 80 CRI min.
35K9 3500K / 90 CRI min.
40K8 4000K / 80 CRI min.
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
DMX† DMX Control with Dimming to 0.1%

Voltage
DV 120-277VAC, 50/60Hz
120 120VAC, 60Hz
277 277VAC, 60Hz
347▲ 347VAC, 60Hz (DIM1 only)

Options
LEL* Integral 4W Emergency Battery Backup (18" size only)
BPC-SA▼ Photo Control – Shielded Button Type with Die-cast Surface Adapter
FS Single Fuse & Holder (n/a 347V)
NAT Suitable for Natatorium applications
MS◇ Embedded Motion Sensor

Accessories
SA Die-Cast Surface Adapter for Conduit (non-compliant with ADA)

‡ White lamp color to match center light engine
† Required for all configurations with RGB or RGBW, center and perimeter control
* n/a 347V; n/a 14" fixture; 0°C min. ambient; n/a in conjunction with DMX Driver or MS option
▼ 120 or 277V input only; non-compliant with ADA
◇ 18" models only; for use with white/static color and white/switchable color; max. 16L center; DIM1 only; n/a with 347V.
▲ n/a 14" fixture; n/a with 24L/18R or 24L/18NA (18" fixture).

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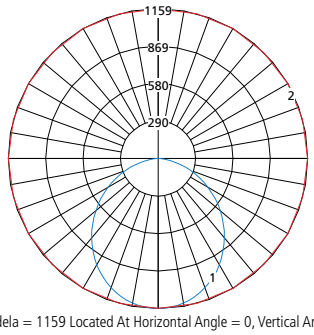
HASD SERIES – DUAL-ENGINE LAMPING

PERFORMANCE

Model	Light Engine	Lamp Code	Lamp Description	Initial Delivered Lumens, By Lamp Color (lm)						Input Power (W)	TM-21 Reported L70 (hrs)
				30K8	35K8	35K9	40K8	40K9	Colors		
HASD14	Center	10L	Static White	1,151	1,188	1,088	1,251	1,113	-	13	>72,000
		16L		1,749	1,806	1,654	1,901	1,692	-	22	
		22L		2,275	2,349	2,151	2,473	2,201	-	27	
	Perimeter	16L	Static White	1,574	1,625	1,488	1,710	1,522	-	20	>72,000
		12R	630 nm Red	-	-	-	-	-	513	16	>60,000
		12NA	590 nm Amber	-	-	-	-	-	351	16	
		6PM	PC Mint	-	-	-	-	-	803	8	
		8CY	500 nm Cyan	-	-	-	-	-	471	10	
		16RGB	PC Red	-	-	-	-	-	388	21	>36,000
			PC Green	-	-	-	-	-	1,934	21	
			Blue	-	-	-	-	-	198	21	
	Combined	10L/16L	Static White	2,742	2,832	2,593	2,981	2,653	-	33	>72,000
		16L/16L		3,299	3,406	3,119	3,585	3,191	-	39	
		22L/16L		3,848	3,974	3,639	4,183	3,723	-	46	
HASD18	Center	16L	Static White	1,847	1,907	1,747	2,008	1,787	-	19	>72,000
		24L		2,817	2,909	2,664	3,062	2,725	-	30	
		33L		3,758	3,881	3,554	4,085	3,636	-	38	
	Perimeter	24L	Static White	2,477	2,558	2,343	2,693	2,396	-	29	>72,000
		18R	630 nm Red	-	-	-	-	-	824	23	>60,000
		18NA	590 nm Amber	-	-	-	-	-	588	24	
		8PM	PC Mint	-	-	-	-	-	1,288	11	
		12CY	500 nm Cyan	-	-	-	-	-	725	13	
		24L/18R	Sw. White / 630 nm Red	2,477	2,558	2,343	2,693	2,396	824	29 / 23	>72K / >60K
		24L/18NA	Sw. White / 590 nm Amber	2,477	2,558	2,343	2,693	2,396	588	29 / 24	
		24M	PC Red	-	-	-	-	-	532	27	>36,000
			PC Green	-	-	-	-	-	2,331	24	
			Blue	-	-	-	-	-	270	27	
			White (2500K, 70CRI)	-	-	-	-	-	2,073	28	
	Combined	16L/24L	Static White	4,344	4,485	4,108	4,722	4,202	-	49	>72,000
		24L/24L		5,294	5,467	5,006	5,754	5,121	-	59	
		33L/24L		6,308	6,514	5,965	6,857	6,103	-	68	

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.

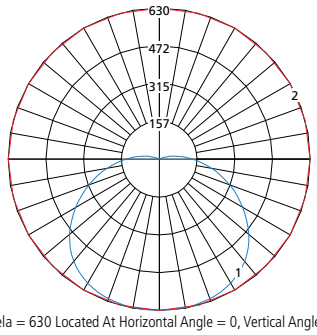
Model: HASD18-r-PP-24L_u-40K8-w-x-y-z
Center On



Max Candela = 1159 Located At Horizontal Angle = 0, Vertical Angle = 0

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

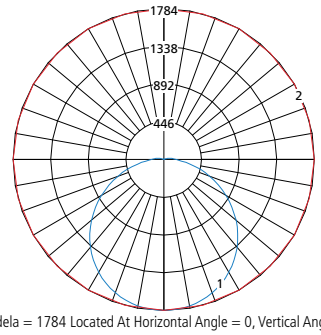
Model: HASD18-r-PP-t_24L-40K8-w-x-y-z
Static White Perimeter On



Max Candela = 630 Located At Horizontal Angle = 0, Vertical Angle = 0

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

Model: HASD18-r-PP-24L_24L-40K8-w-x-y-z
Center and Perimeter On



Max Candela = 1784 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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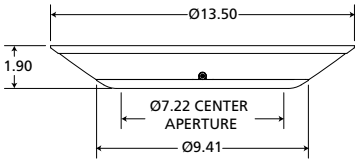
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DIMENSIONAL DATA

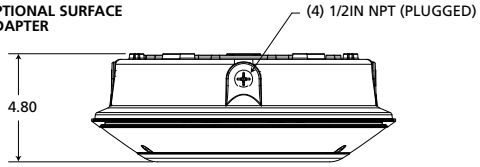
14" FIXTURE

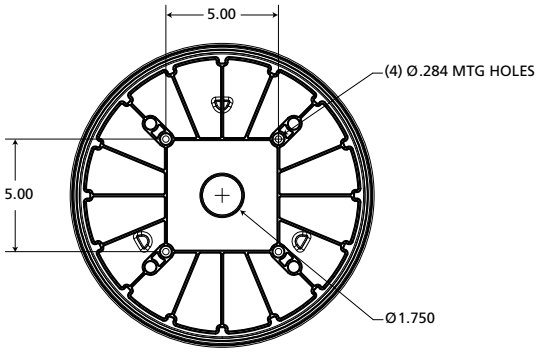


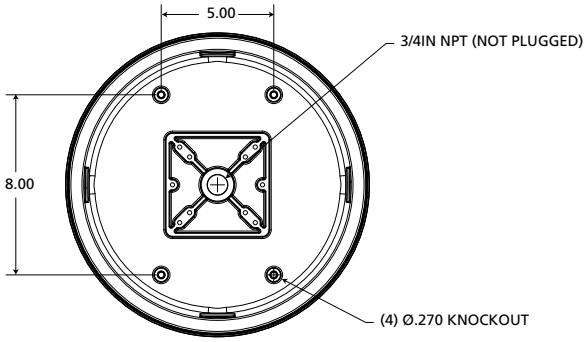
OPTIONAL LEL



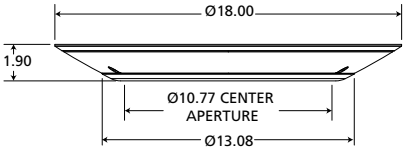
OPTIONAL SURFACE ADAPTER





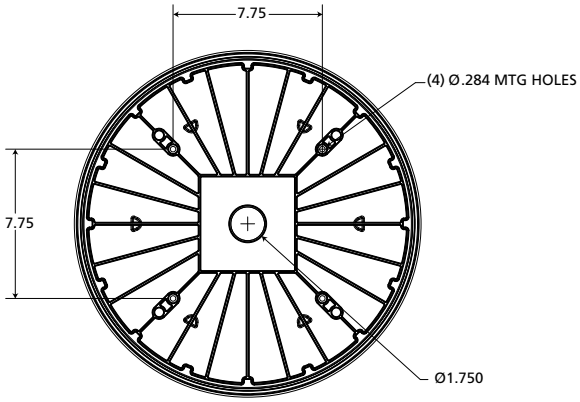


18" FIXTURE

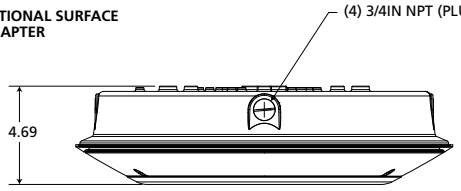


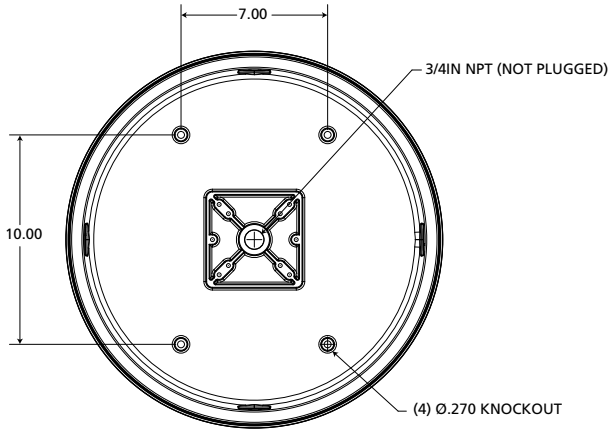
OPTIONAL LEL





OPTIONAL SURFACE ADAPTER





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