

ENVIROPRO™

IN9 SERIES

Luminaire for Natatorium Applications

PRODUCT FEATURES:

- » Designed specifically for natatorium lighting applications
- » Indirect lighting optical configurations with aiming adjustability
- » Uniform material specification for all provided housing and structural components for long-lasting durability in chlorinated environments
- » Galvanically isolated and field-replaceable light engine assembly
- » 11,000-40,000lm output range

SPECIFICATIONS:

HOUSING: 18-gauge, die-formed outer housing with convection cooling of internal heat sink via perforated cooling apertures – see Ordering Information for pattern options. Type 3003-H14 aluminum, Type 304 or Type 316 stainless-steel material options. Passivation of all welded stainless-steel components. TGIC polyester powder-coat finish with five-step pre-treatment process; coatings to withstand 1,000-hr salt fog test per ASTM B117.

HEAT SINKS: Type 413 marine-grade die-cast aluminum. Coating to withstand 1,000-hour salt fog test per ASTM B117. Electrically insulated from outer housing to prevent galvanic corrosion.

MOUNTING (CEILING-PENDANT): Compatible with flat or sloped ceilings up to 4:12 pitch. Ceiling canopy and pendants to match housing material and finish. Supply wiring at canopy via either recessed junction box or surface-mounted ¾" conduit (1-in, 1-out). Provided cord routed internal to pendant stems. Standard pendant length is 72" with custom pendant lengths available.

MOUNTING (WALL): 16-gauge, die-formed yoke bracket attaches to vertical wall surface over recessed junction box. Material and finish to match housing. Supply and control wiring fed between junction box and housing via exposed jacketed cable and sealed cord-grip. Cabling is white for all light-colored finishes and black for all dark-colored finishes.

PIVOT HUB: Machined hubs attach the housing to the ceiling pendants or wall-mount yoke and allow for repeatable rotational aiming and locking. Range of aiming adjustment is -15° to 55° (0° is luminaire pointing straight up). Construction in 6061 aluminum (AL housings) or 904L stainless-steel (304 and 316 housings).

OPTICS: Forward-, narrow-forward and wide-throw optical distributions. Clear tempered glass outer lens with silicone gasketing. Optional cut-off shield (CS) to limit high-angle spectator glare.

ELECTRICAL: Serviceable high-brightness LED array. See Ordering Information for color temperature and CRI options. Maximum 3-step MacAdam color variation. 120-277, 347 or 480 VAC, 50/60Hz single-phase input; 0.90 PF. Minimum 90% electrical efficiency. Standard 0-10V dimming with 5-100% dimming range with dim-to-dark capabilities @ 0V (100µA maximum source current). EMC compliant with FCC 47 CFR Part 15, Class B.

INSTALLATION: Four-point (wall mount) or six-point (pendant mount) mounting to suitable surface, hardware by others. Suitable for continuous use in -30°C to 40°C ambient environments for 92L/184L lamp power levels and -30°C to 30°C ambient environments for 130L/260L lamp power levels. Light engine (primary optics, LEDs, heat sink and driver) are field-replaceable as a sub-assembly.

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 mechanical warranty on aluminum, ten (10) year limited mechanical warranty on 304 stainless and fifteen (15) year limited mechanical warranty when ordered with 316 stainless. Five (5) year limited warranty on light engine components.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Location. Light engine and electronic components are sealed to an IP65 rating per IEC 60598. RoHS compliant.



PROJECT INFORMATION

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



PENDANT MOUNT



WALL MOUNT

ORDERING INFORMATION (Ex: IN9-20-PM-MW-FT-130L-40K8-DIM5-DV-PM72-304SL-FS1)

Model	Length	Mounting	Finish	Optic	Lamp Power	Lamp Color	Driver Type	Voltage	Mounting Type	Housing Material	Options
IN9							DIM5				
Model	EnviroPro for Natatoriums				Lamp Power (20 Length)			Voltage			
IN9					92L	92 Watt LED		DV	120-277 VAC, 50/60Hz		
					130L	130 Watt LED		347	347 VAC, 50/60Hz		
								480	480 VAC, 50/60Hz		
Length					Lamp Power (30 Length)			Mounting Type			
20	20" Nominal				184L	184 Watt LED		YM	Yoke Mount (WM only)		
30	30" Nominal				260L	260 Watt LED		PM72	72" Length Pendant (PM only)		
								PMX	Custom Length Pendant (PM only, 24" - 72" range)		
Mounting Configuration					Lamp Color			Housing Material Pattern (see page 2 for pattern images)			
WM	Wall Mount				35K8	3500K/80 CRI min.		ALSL	Painted Aluminum with Slotted Cooling Apertures		
PM	Pendant Mount				40K8	4000K/80 CRI min.		ALPF	Painted Aluminum with Perforated Cooling Apertures		
					40K7	4000K/70 CRI min.		ALRD	Painted Aluminum with Raindrop Pattern Apertures		
Finish					50K7	5000K/70 CRI min.		304SL	Painted Type 304SS with Slotted Cooling Apertures		
MW	Matte White				Driver Type			304PF	Painted Type 304SS with Perforated Cooling Apertures		
LG	Light Grey				DIM5	0-10V Dimming to 5%		304RD	Painted Type 304SS with Raindrop Pattern Apertures		
DB	Dark Bronze										
IV	Ivory										
SL	Silver										
CC	Custom Color										
Optic Type											
FT	Forward Throw										
NFT	Narrow Forward Throw										
WT	Wide Throw										
							Options				
							FS1	Single Fuse & Holder (n/a for 480V)			
							FS2	Double Fuse & Holder			
							CS	Cutoff Shield (Material and Finish to Match Housing)			
							SCH	Safety Cable (Pendant Mount only)			
							20KV	20KV/KA Surge Protection per IEEE/ANSI C62.41.2 Cat A			



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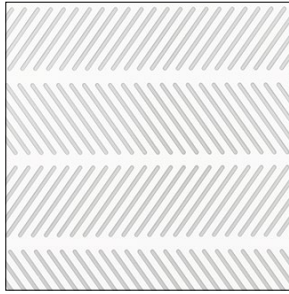
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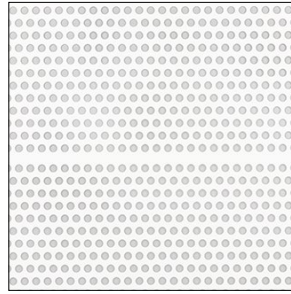
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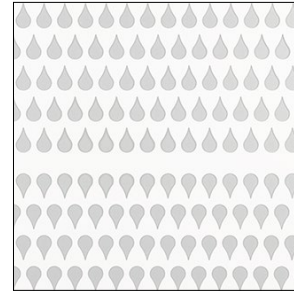
HOUSING COOLING APERTURE PATTERN



SLOTTED



PERFORATED



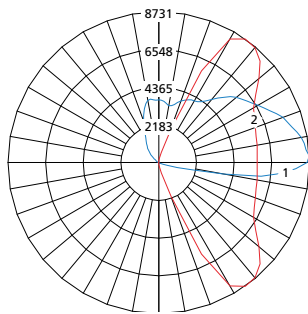
RAINDROP

PERFORMANCE

Size Configuration	Lamp Code	Lumen Output, By Distribution Type (lm)			Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)	Lumen Maintenance @ 50k Hrs
		FT	NFT	WT				
20	92L-35K8	11,365	12,183	11,471	108 - 116	105	165,000	95%
	92L-40K8	12,101	12,972	12,213	115 - 123			
	92L-40K7	14,413	15,450	14,547	137 - 147			
	92L-50K7	14,701	15,759	14,838	139 - 150			
	130L-35K8	14,890	15,962	15,028	102 - 109	146	135,000	89%
	130L-40K8	15,854	16,995	16,001	109 - 116			
	130L-40K7	18,883	20,242	19,058	129 - 139			
30	184L-35K8	22,376	24,340	22,365	111 - 121	202	165,000	95%
	184L-40K8	23,825	25,916	23,813	118 - 128			
	184L-40K7	28,377	30,867	28,363	141 - 153			
	184L-50K7	28,944	31,485	28,930	143 - 156			
	260L-35K8	28,815	31,345	28,801	104 - 113	278	135,000	89%
	260L-40K8	30,681	33,374	30,666	110 - 120			
	260L-40K7	36,543	39,750	36,525	131 - 143			
	260L-50K7	37,274	40,545	37,256	134 - 146			

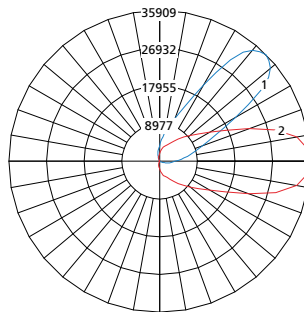
Information above was tested with an outer tempered glass lens. Subject to change without notice. Visit www.kenall.com for IES files and additional information.

Model: IN9-30-FT-184L-40K8-DIM5



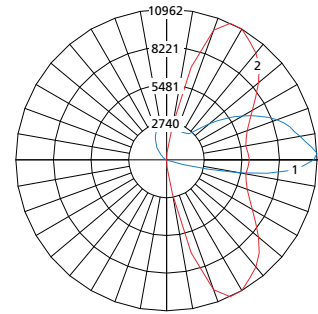
Max Candela = 8731 Located At Horizontal Angle = 55, Vertical Angle = 92.5
 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (92.5) (Through Max. Cd.)

Model: IN9-30-NFT-184L-40K8-DIM5



Max Candela = 35909 Located At Horizontal Angle = 0, Vertical Angle = 135
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)

Model: IN9-WT-184L-40K8-DIM5



Max Candela = 10962 Located At Horizontal Angle = 60, Vertical Angle = 92.5
 1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (92.5) (Through Max. Cd.)



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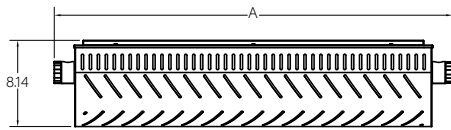
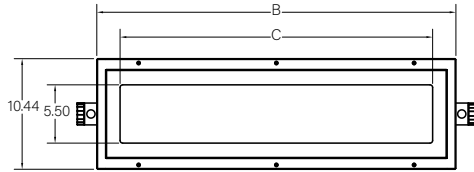
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DIMENSIONAL DATA

FIXTURE VIEW

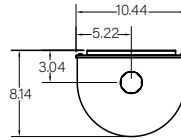


DIMENSIONAL DATA (IN INCHES)

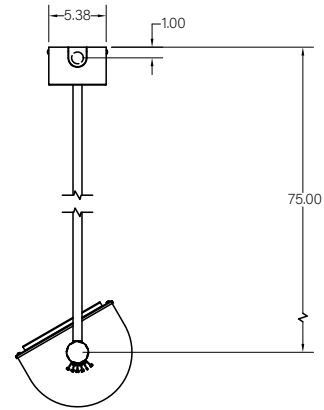
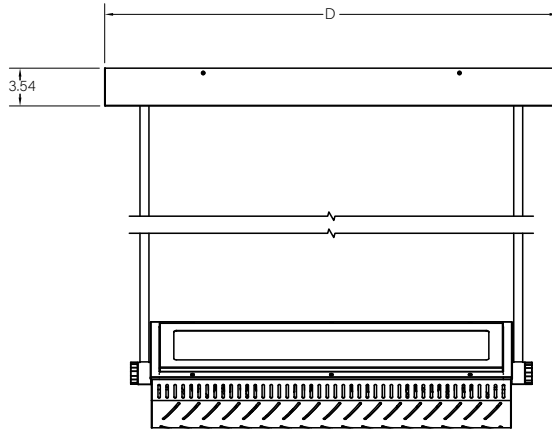
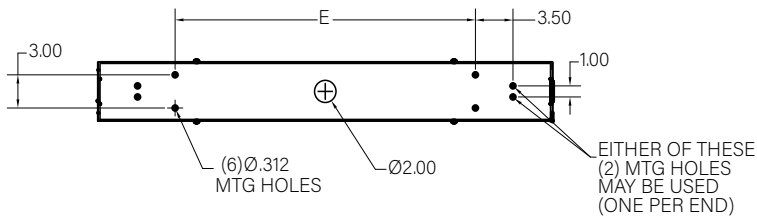
	A	B	C	D	E	F	G
20"	27.58"	23.89"	19.50"	32.45"	18.00"	26.45"	20.00"
30"	37.58"	33.89"	29.50"	42.45"	28.00"	36.45"	32.00"

PRODUCT WEIGHT (IN LBS)

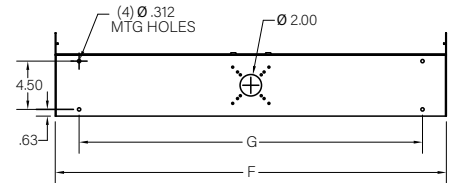
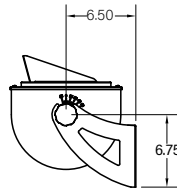
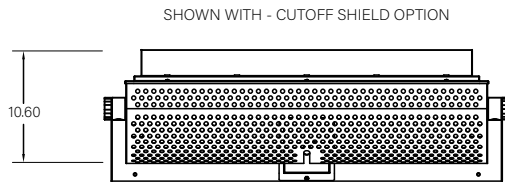
MODEL	WALL-MOUNT (WM)	PENDANT MOUNT (PMZ2)
20"	35	46
30"	49	61



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