

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** HTS-9R

**Manufacturer:** BARE DEVELOPMENT, INC.

**Luminaire:** FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED FINNED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 24 LEDS, OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/4".

**Luminaire Cat:** HTS-9R

**Lamp:** TWENTY-FOUR WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION. 81.85 EFFICIENCY DRIVER INPUT 24V 64.84W VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.

**Lamp Output:** 1 lamp(s), rated Lumens/lamp: 5066.73

**Max Candela:** 1,613.3 at Horizontal: 0°, Vertical: 0°

**Input Wattage:** 58.6

**Luminous Opening:** Rectangle (L: 0.25m, W: 0.18m)

**Test:** ITL64039

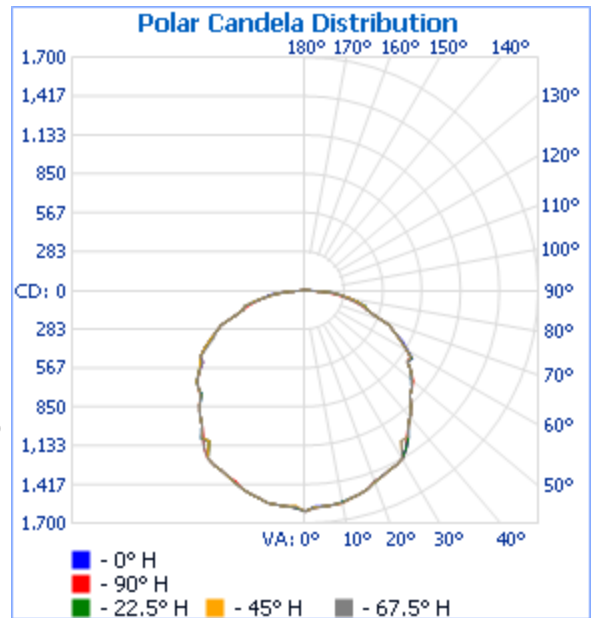
**Test Lab:** INDEPENDENT TESTING LABORATORIES, INC.

**Photometry :** Type C

**CIE Class:** Direct

**Cutoff Class:** Full Cutoff

**Nema Type:** 7 X 7

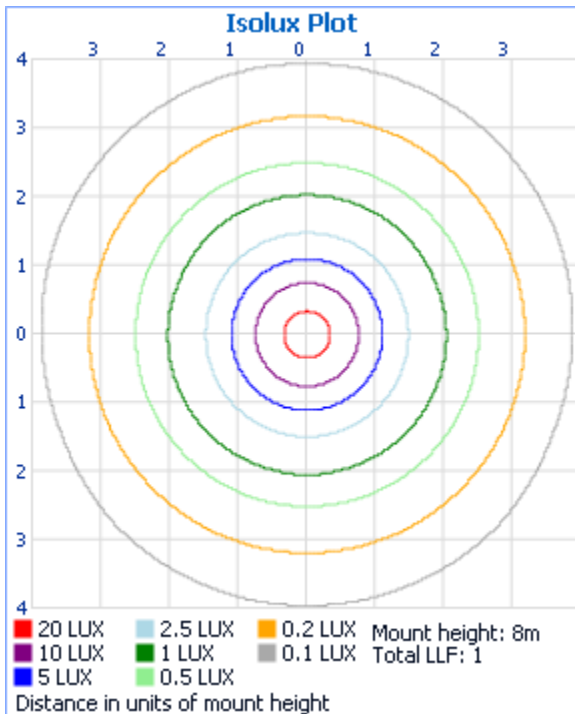


### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1,256.8	24.8%	24.8%
0-40	2,068.2	40.8%	40.8%
0-60	3,752.4	74.1%	74.1%
60-90	1,313.3	25.9%	25.9%
0-90	5,065.7	100%	100%
90-180	0	0%	0%
0-180	5,065.7	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	150.8	3.0%	90-100	0	0%
10-20	434.3	8.6%	100-110	0	0%
20-30	671.7	13.3%	110-120	0	0%
30-40	811.4	16.0%	120-130	0	0%
40-50	847.1	16.7%	130-140	0	0%
50-60	837.1	16.5%	140-150	0	0%
60-70	705.3	13.9%	150-160	0	0%
70-80	454.1	9.0%	160-170	0	0%
80-90	153.8	3.0%	170-180	0	0%



Distance (m)	Illuminance at a Distance	
	Center Beam LUX	Beam Width
1.3m	907.48 LUX	5.0m 4.9m
2.7m	226.87 LUX	10.0m 9.8m
4.0m	100.83 LUX	14.9m 14.7m
5.3m	56.72 LUX	19.9m 19.7m
6.7m	36.30 LUX	24.9m 24.6m
8.0m	25.21 LUX	29.9m 29.5m

Vert. Spread: 123.7°    Horiz. Spread: 123.0°

**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.02	.98	.94	1.05	1.00	.96	.82	.96	.92	.89	.92	.89	.86	.88	.86	.84	.82
2	.97	.88	.81	.75	.95	.86	.80	.68	.83	.77	.72	.80	.75	.71	.76	.72	.69	.67
3	.88	.77	.68	.61	.86	.75	.67	.57	.72	.65	.60	.70	.64	.59	.67	.62	.58	.55
4	.81	.68	.59	.52	.78	.67	.58	.49	.64	.56	.50	.62	.55	.50	.59	.54	.49	.47
5	.74	.60	.51	.44	.72	.59	.50	.42	.57	.49	.43	.55	.48	.43	.53	.47	.42	.40
6	.68	.54	.45	.38	.66	.53	.44	.37	.51	.44	.38	.50	.43	.37	.48	.42	.37	.35
7	.63	.49	.40	.34	.61	.48	.40	.33	.47	.39	.33	.45	.38	.33	.44	.38	.33	.31
8	.59	.45	.36	.30	.57	.44	.36	.29	.43	.35	.30	.41	.34	.29	.40	.34	.29	.27
9	.55	.41	.33	.27	.53	.40	.32	.26	.39	.32	.27	.38	.31	.26	.37	.31	.26	.24
10	.51	.38	.30	.24	.50	.37	.29	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22

**Luminaire Report Summary**

IESNA:LM-63-2002  
 [ISSUEDATE] 07/15/10  
 [TEST] ITL64039  
 [TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.  
 [MANUFAC] BARE DEVELOPMENT, INC.  
 [LUMCAT] HTS-9R  
 [LUMINAIRE] FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED  
 [MORE] FINNED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 24  
 [MORE] LEDS, OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/4".  
 [LAMP] TWENTY-FOUR WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL  
 [MORE] BASE-UP POSITION.  
 [MORE] 81.85 EFFICIENCY DRIVER INPUT 24V 64.84W  
 [\_LEDDRIVER] ETG 75W  
 [\_NOTE] DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT  
 [MORE] VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.  
 [OTHER] TOTAL INPUT WATTS = 58.6 AT 120.0 VOLTS  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [OTHER] TEST DISTANCE = 33.25 FEET  
 FILE: CANDELA MULTIPLIER: 1  
 FILE: VERTICAL ANGLES: 73, HORIZONTAL ANGLES: 17  
 FILE: COORDINATE SYSTEM: TYPE C  
 FILE: UNIT OF MEASURE: STANDARD  
 FILE: BALLAST FACTOR: 1

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 Reported data calculated from manufacturer's data file, based on IES recommended methods.