

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Double-HTS-9AR-Gagrag-12x12

**Manufacturer:** BARE DEVELOPMENT

**Luminaire:** 2-HTS-9AR RECTANGLE BOARDS IN A 12X12 INCH SQUARE FIXTURE CEILING MOUNTED WITH CLEAR PRISMATIC LENS.

**Luminaire Cat:** 12x12 INCH METAL FIXTURE (CEILING)

**Lamp:** TWO BOARDS WITH TWELVE WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL

**Lamp Cat:** DOUBLE HTS-9AR

**Lamp Output:** 2 lamp(s), rated Lumens/lamp: 2165

**Max Candela:** 730.0 at Horizontal: 0°, Vertical: 0°

**Input Wattage:** 61

**Luminous Opening:** Rectangle w/Luminous Sides (L: 0.27m, W: 0.27m, H: 0.13m)

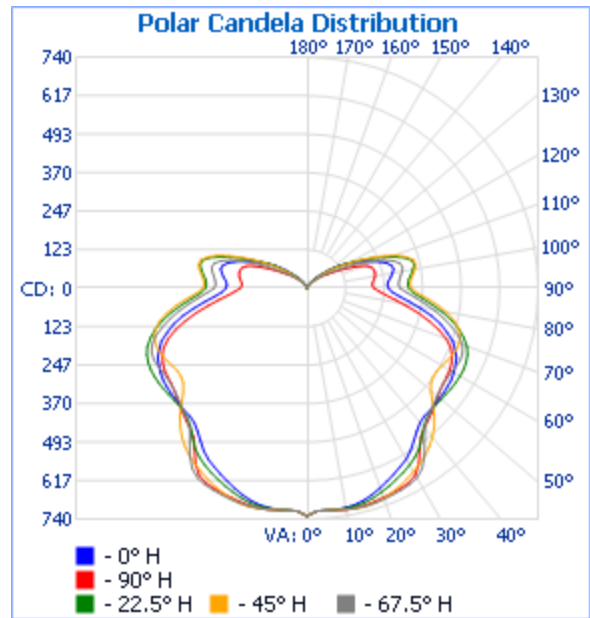
**Test:** SCALED ITL91209

**Test Date:** 7/21/2010

**Photometry :** Type C

**CIE Class:** Semi-Direct

**Cutoff Class:** Noncutoff

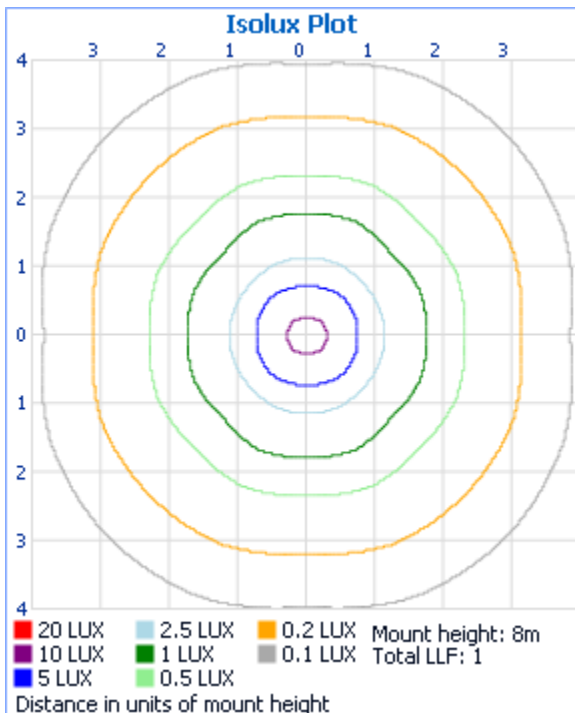


### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	590.8	13.6%	13.7%
0-40	988.9	22.8%	22.8%
0-60	1,904.3	44%	44%
60-90	1,408.8	32.5%	32.6%
0-90	3,313.1	76.5%	76.6%
90-180	1,014.6	23.4%	23.4%
0-180	4,327.7	99.9%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	68.4	1.6%	90-100	328.6	7.6%
10-20	202.6	4.7%	100-110	324.1	7.5%
20-30	319.8	7.4%	110-120	208.9	4.8%
30-40	398.1	9.2%	120-130	98.2	2.3%
40-50	436.4	10.1%	130-140	39.2	0.9%
50-60	479.1	11.1%	140-150	13.1	0.3%
60-70	526.9	12.2%	150-160	2.3	0.1%
70-80	500.4	11.6%	160-170	0.1	0%
80-90	381.4	8.8%	170-180	0.0	0%



Distance (m)	Illuminance at a Distance	
	Center Beam LUX	Beam Width
1.3m	410.63 LUX	15.5m 12.0m
2.7m	102.66 LUX	31.1m 23.9m
4.0m	45.63 LUX	46.6m 35.9m
5.3m	25.66 LUX	62.1m 47.9m
6.7m	16.43 LUX	77.6m 59.8m
8.0m	11.41 LUX	93.2m 71.8m

Vert. Spread: 160.5°    Horiz. Spread: 154.9°

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	<b>80</b>				<b>70</b>				<b>50</b>			<b>30</b>			<b>10</b>			<b>0</b>
RW %:	<u>70</u>	<u>50</u>	<u>30</u>	<u>0</u>	<u>70</u>	<u>50</u>	<u>30</u>	<u>0</u>	<u>50</u>	<u>30</u>	<u>20</u>	<u>50</u>	<u>30</u>	<u>20</u>	<u>50</u>	<u>30</u>	<u>20</u>	<u>0</u>
RCR: 0	1.13	1.13	1.13	1.13	1.08	1.08	1.08	.77	.98	.98	.98	.89	.89	.89	.80	.80	.80	.77
1	.99	.93	.87	.82	.94	.88	.83	.56	.79	.75	.72	.72	.68	.65	.64	.62	.59	.55
2	.89	.78	.70	.63	.83	.75	.67	.44	.67	.61	.56	.60	.55	.51	.54	.50	.46	.43
3	.80	.68	.58	.51	.75	.64	.56	.36	.58	.51	.45	.52	.46	.41	.46	.42	.37	.34
4	.72	.59	.49	.42	.68	.56	.47	.30	.51	.43	.37	.45	.39	.34	.41	.35	.31	.28
5	.66	.52	.42	.35	.62	.50	.41	.25	.45	.37	.31	.40	.34	.29	.36	.31	.26	.24
6	.61	.47	.37	.30	.57	.44	.36	.22	.40	.33	.27	.36	.30	.25	.33	.27	.23	.20
7	.56	.42	.33	.26	.53	.40	.31	.19	.36	.29	.24	.33	.27	.22	.30	.24	.20	.18
8	.52	.38	.29	.23	.49	.36	.28	.17	.33	.26	.21	.30	.24	.19	.27	.22	.18	.16
9	.49	.35	.26	.21	.46	.33	.25	.15	.30	.23	.19	.28	.22	.17	.25	.20	.16	.14
10	.45	.32	.24	.18	.43	.31	.23	.14	.28	.21	.17	.25	.20	.16	.23	.18	.14	.12

### Luminaire Report Summary

IESNA:LM-63-2002  
 [TEST]SCALED ITL91209  
 [TESTLAB]  
 [ISSUEDATE] 8/5/2010  
 [TESTDATE] 7/21/2010  
 [MANUFAC] BARE DEVELOPMENT  
 [LUMCAT] 12x12 INCH METAL FIXTURE (CEILING)  
 [LUMINAIRE]2-HTS-9AR RECTANGLE BOARDS IN A 12X12 INCH SQUARE FIXTURE CEILING MOUNTED WITH CLEAR PRISMATIC LENS.  
 [LAMP] DOUBLE HTS-9AR  
 [LAMP] TWO BOARDS WITH TWELVE WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL  
 [\_LAMPWATTAGE] 2x 30.5 = 61W  
 [\_LAMPLUMENS] 4327  
 [\_LAMP OUTPUT:] 2 BOARDS, 2165 LUMENS EACH  
 [\_MOUNTING] EXISTING FIXTURE  
 [OTHER]TEST PROCEDURE: IESNA LM-79-08  
 [\_PRODUCTID] HTS-9AR RETROFIT KIT  
 [\_PRODUCTGROUP] ROUGH SERVICE  
 FILE: CANDELA MULTIPLIER: 1  
 FILE: VERTICAL ANGLES: 73, HORIZONTAL ANGLES: 5  
 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.