

# Photometrics Pro

## Luminaire Photometric Report

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

**Distributor:** LED Canada Lights

**Luminaire:** 2-HTS-9AR CIRCUIT 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:** HTS-9AR

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

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

**Input Wattage:** 61

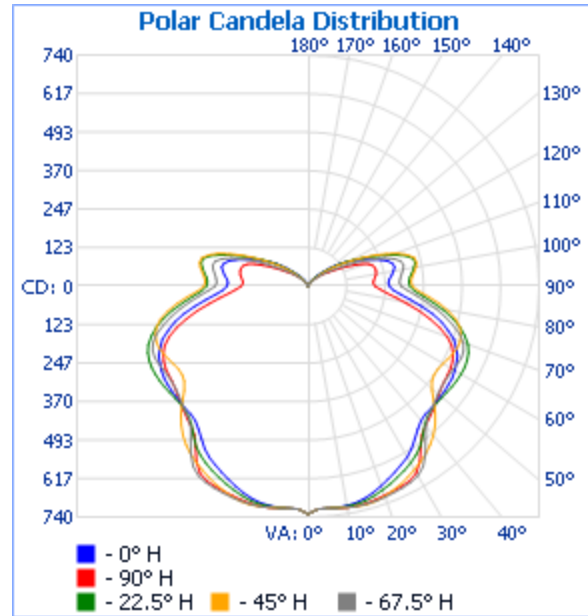
**Luminous Opening:** Rectangle w/Luminous Sides (L: 0.27m, W: 0.27m, H: 0.13m)

**Test:** SCALED ITL91209

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

**Photometry :** Type C

**CIE Class:** Semi-Direct



### Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	334.0	
Max Cd, 80 to <90 Deg:	456.0	
	Lumens	% Lamp
Downward Street Side:	1,656.6	38.3%
Downward House Side:	1,656.6	38.3%
Downward Total:	3,313.2	76.5%
Upward Street Side:	507.2	11.7%
Upward House Side:	507.2	11.7%
Upward Total:	1,014.3	23.4%
Total Lumens:	4,327.6	99.9%

### Zonal Lumen Summary

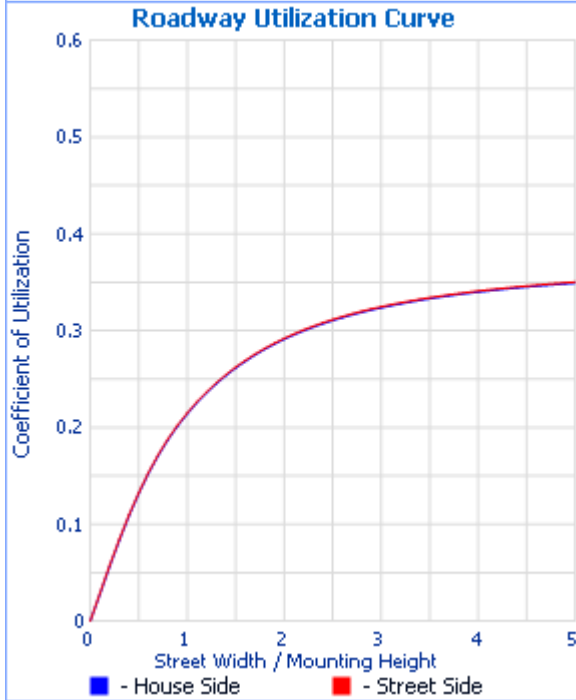
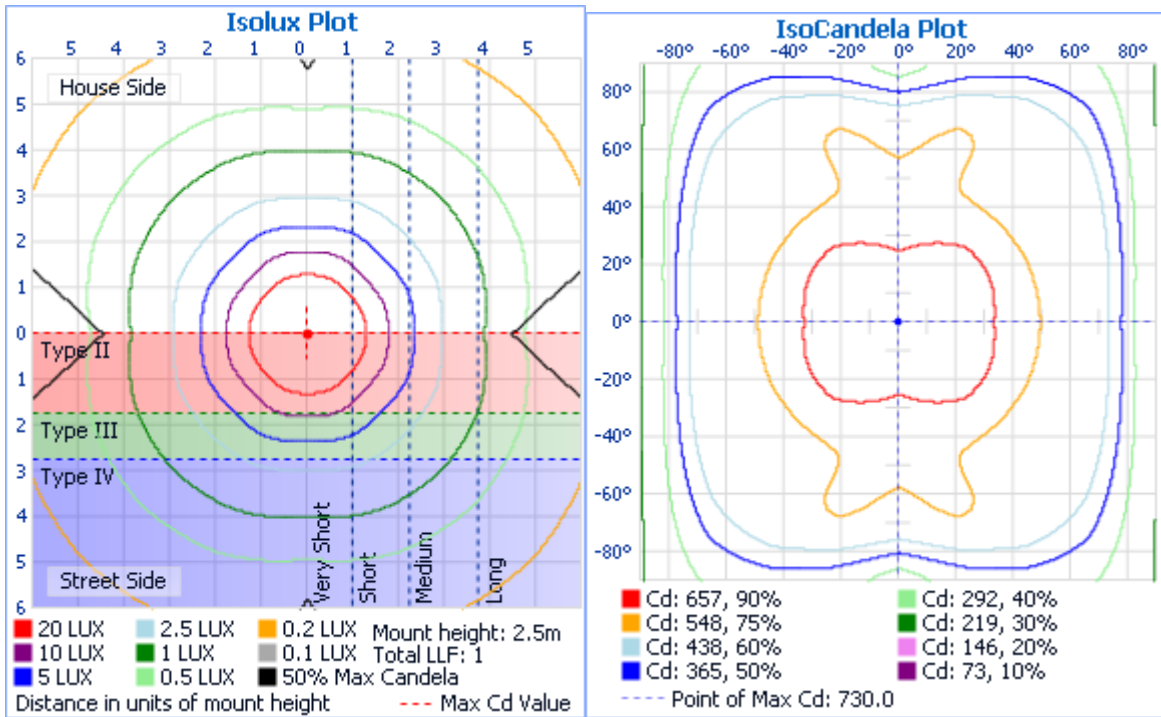
Zone	Lumens	% Lamp	% Luminaire
0-30	590.8	13.6%	13.7%
0-40	988.9	22.8%	22.8%
0-60	1,904.3	44%	44%
60-90	1,408.8	32.5%	32.6%
0-90	3,313.1	76.5%	76.6%
90-180	1,014.6	23.4%	23.4%
0-180	4,327.7	99.9%	100%

### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.7%	4,272.3	n/a	265.4
Beam (50%):	71.4%	3,091.1	154.9	160.5
Total:	100%	4,329.2		

### 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%



**Illuminance at a Distance**

	Center Beam LUX	Beam Width	
0.4m	4,204.80 LUX	4.9m	3.7m
0.8m	1,051.20 LUX	9.7m	7.5m
1.3m	467.20 LUX	14.6m	11.2m
1.7m	262.80 LUX	19.4m	15.0m
2.1m	168.19 LUX	24.3m	18.7m
2.5m	116.80 LUX	29.1m	22.4m

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

**Candela Table - Type C**

	0	22.5	45	67.5	90
0	730	730	730	730	730
2.5	714	715	714	715	715
5	714	714	714	715	715
7.5	715	716	716	717	717
10	714	716	719	720	720
12.5	710	715	722	722	721
15	703	711	724	722	720
17.5	693	704	722	721	717
20	681	695	716	719	713
22.5	669	686	708	716	710
25	657	676	700	713	707
27.5	645	666	690	709	703

30	633	655	679	702	692
32.5	617	642	668	685	666
35	596	626	656	655	629
37.5	577	603	642	618	599
40	562	581	624	586	584
42.5	556	566	602	569	574
45	555	559	576	560	564
47.5	553	556	546	550	554
50	552	557	518	542	545
52.5	551	559	500	536	537
55	549	562	493	533	532
57.5	547	564	493	533	529
60	542	565	498	535	527
62.5	535	565	505	539	521
65	528	562	511	542	512
67.5	513	556	517	539	498
70	497	545	518	529	474
72.5	470	526	513	509	442
75	443	503	503	480	404
77.5	408	474	484	449	364
80	369	441	456	416	322
82.5	330	405	424	382	285
85	297	371	388	349	254
87.5	272	341	354	320	231
90	261	326	334	298	215
92.5	257	323	330	293	209
95	261	327	334	296	211
97.5	270	336	342	302	216
100	277	344	351	309	221
102.5	284	351	356	313	223
105	280	347	352	308	223
107.5	268	326	334	291	218
110	248	294	307	264	207
112.5	226	259	272	229	186
115	203	225	235	192	159
117.5	183	195	199	157	133
120	164	169	167	126	110
122.5	145	146	141	102	92
125	125	124	117	84	78
127.5	107	103	97	70	69
130	90	84	79	58	59
132.5	74	68	63	48	50
135	61	55	49	38	42
137.5	51	44	39	30	34
140	42	36	30	25	28
142.5	35	30	23	20	23
145	28	23	16	16	19
147.5	23	18	11	13	16
150	17	13	5	9	12
152.5	12	9	2	7	9
155	8	5	0	4	6
157.5	4	2	0	1	3
160	2	0	0	0	1
162.5	0	1	0	1	1

165	1	1	1	1	1
167.5	0	0	0	0	1
170	0	0	0	0	0
172.5	0	0	0	0	0
175	0	0	0	0	1
177.5	0	0	0	0	0
180	0	0	0	0	0

## Luminaire Report Summary

IESNA91  
 [TEST]SCALED ITL91209  
 [TESTLAB]  
 [ISSUEDATE] 8/5/2010  
 [TESTDATE] 7/21/2010  
 [DISTRIBUTOR] LED CANADA LIGHTS  
 [LUMCAT] 12x12 INCH METAL FIXTURE (CEILING)  
 [LUMINAIRE]2-HTS-9AR CIRCUIT BOARDS IN A 12X12 INCH SQUARE FIXTURE CEILING MOUNTED WITH CLEAR PRISMATIC LENS.  
 [LAMPCAT] 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  
 [\_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.

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