



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-20L-5Q-30K8.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12892
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 10/22/2021
[TEST DATE] 08/18/21
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] HPG-20L-5Q-30K8
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLOR TEMP] 3000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18491
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	169
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9011
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	9011
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1504 (8.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	915.3	N.A.	5.0
FM - Front-Medium (30-60)	4288.0	N.A.	23.2
FH - Front-High (60-80)	3889.4	N.A.	21.0
FVH - Front-Very High (80-90)	152.7	N.A.	0.8
BL - Back-Low (0-30)	915.3	N.A.	5.0
BM - Back-Medium (30-60)	4288.0	N.A.	23.2
BH - Back-High (60-80)	3889.4	N.A.	21.0
BVH - Back-Very High (80-90)	152.7	N.A.	0.8
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	18490.8	N.A.	100.0
BUG Rating	B4-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114
2.5	2120	2119	2116	2113	2119	2120	2120	2118	2124	2122
5.0	2113	2111	2112	2110	2108	2105	2104	2104	2110	2110
7.5	2096	2095	2097	2086	2091	2098	2093	2086	2093	2091
10.0	2083	2082	2080	2064	2059	2049	2059	2066	2079	2080
12.5	2073	2073	2066	2053	2037	2033	2040	2058	2071	2077
15.0	2074	2076	2062	2039	2032	2039	2036	2046	2073	2081
17.5	2099	2097	2072	2037	2041	2047	2046	2049	2086	2108
20.0	2149	2147	2103	2062	2069	2071	2078	2080	2119	2152
22.5	2216	2217	2157	2122	2123	2125	2134	2137	2167	2218
25.0	2300	2296	2226	2206	2209	2216	2218	2219	2237	2296
27.5	2384	2378	2309	2304	2324	2331	2331	2319	2316	2376
30.0	2480	2472	2404	2418	2443	2445	2445	2423	2408	2473
32.5	2590	2579	2513	2558	2569	2566	2566	2550	2510	2572
35.0	2693	2680	2623	2688	2710	2701	2709	2673	2611	2670
37.5	2796	2783	2722	2809	2859	2856	2852	2785	2702	2783
40.0	2902	2891	2818	2920	3013	3019	3002	2891	2793	2896
42.5	3074	3037	2918	3035	3164	3182	3162	3015	2907	3058
45.0	3393	3344	3098	3163	3328	3347	3347	3173	3099	3401
47.5	3561	3519	3410	3336	3526	3544	3575	3365	3469	3612
50.0	3838	3792	3606	3674	3791	3877	3860	3747	3707	3915
52.5	4225	4185	3979	4051	4240	4380	4329	4170	4081	4304
55.0	4851	4807	4536	4496	4803	5059	4869	4574	4603	4858
57.5	5509	5474	5220	5136	5605	5853	5599	5122	5189	5444
60.0	5911	5871	5711	5753	6520	6881	6399	5673	5671	5847
62.5	5755	5632	5599	5954	7235	8101	7067	5887	5570	5609
65.0	4966	4936	5016	5601	7434	9011	7320	5552	4959	4887
67.5	3871	3973	4203	4940	7124	8586	6990	4814	4095	3872
70.0	2424	2631	2920	3701	6029	7210	5812	3479	2814	2535
72.5	1232	1451	1741	2368	4377	5505	4161	2215	1656	1401
75.0	680	792	1018	1458	2681	3721	2657	1403	1005	777
77.5	464	503	598	972	1819	2687	1865	964	598	500
80.0	334	342	373	575	1248	1504	1312	587	382	343
82.5	225	222	247	423	585	672	632	423	254	222
85.0	122	132	165	285	389	201	409	270	169	133
87.5	69	78	96	121	170	55	156	103	96	77
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

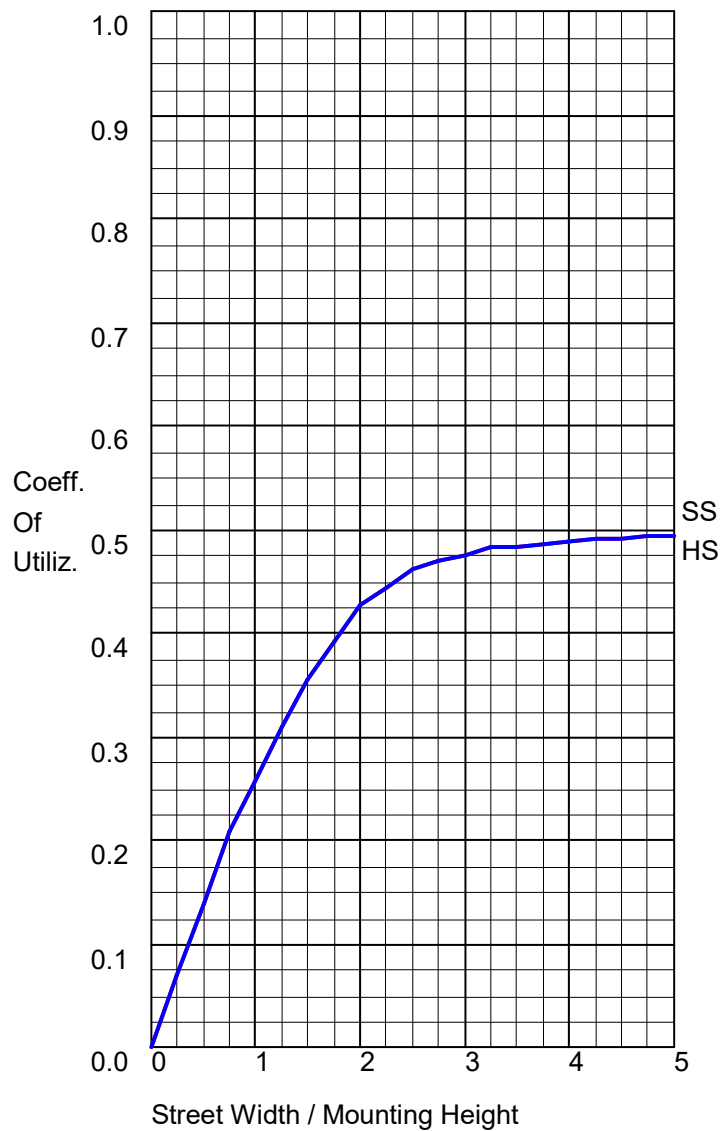
	<u>90</u>
0.0	2114
2.5	2121
5.0	2108
7.5	2090
10.0	2079
12.5	2075
15.0	2080
17.5	2107
20.0	2149
22.5	2213
25.0	2292
27.5	2378

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CANDELA TABULATION - (Cont.)

30.0	2478
32.5	2584
35.0	2683
37.5	2794
40.0	2909
42.5	3084
45.0	3441
47.5	3638
50.0	3932
52.5	4298
55.0	4877
57.5	5453
60.0	5860
62.5	5641
65.0	4872
67.5	3798
70.0	2392
72.5	1242
75.0	676
77.5	452
80.0	330
82.5	222
85.0	124
87.5	70
90.0	0

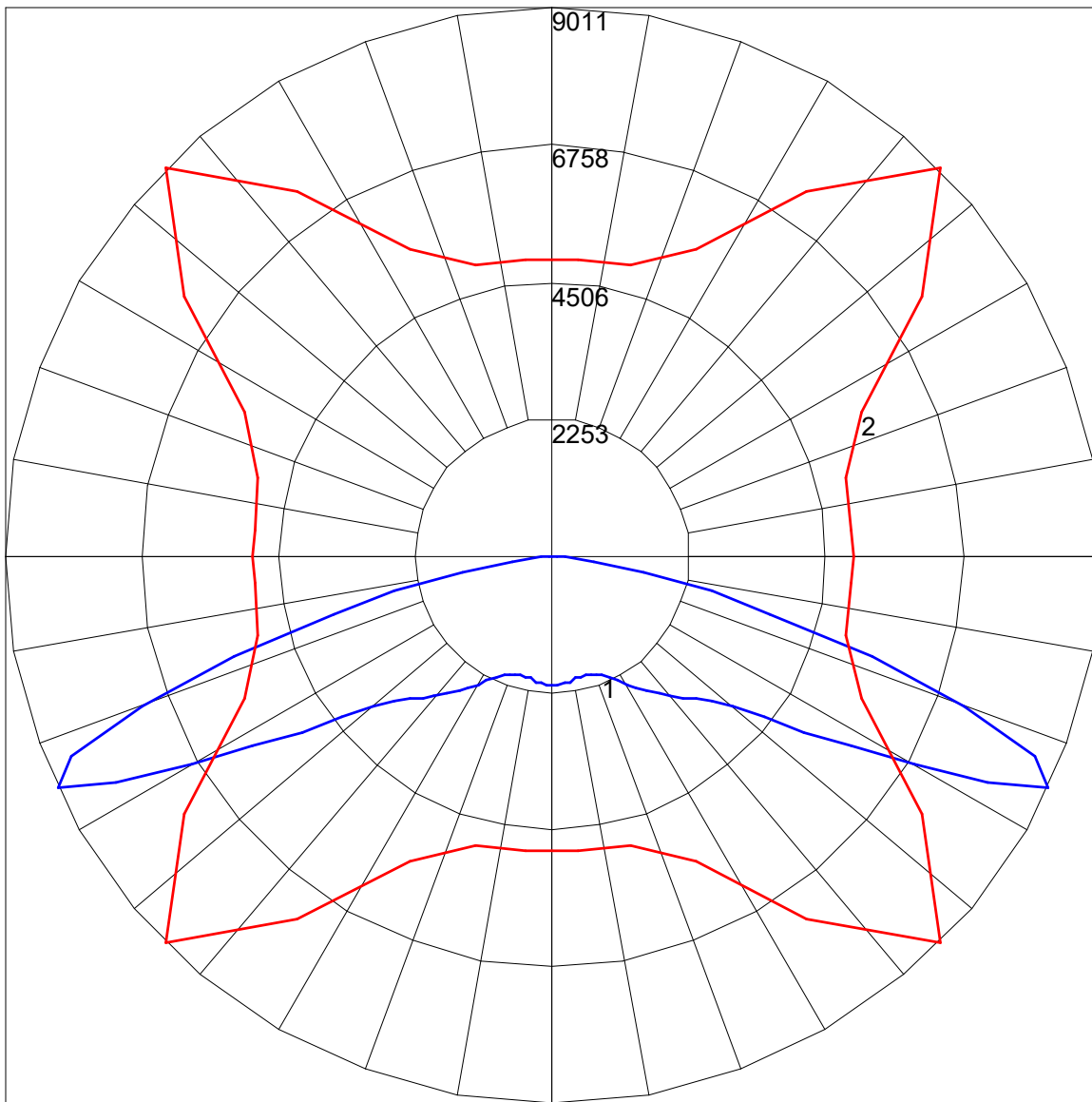
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

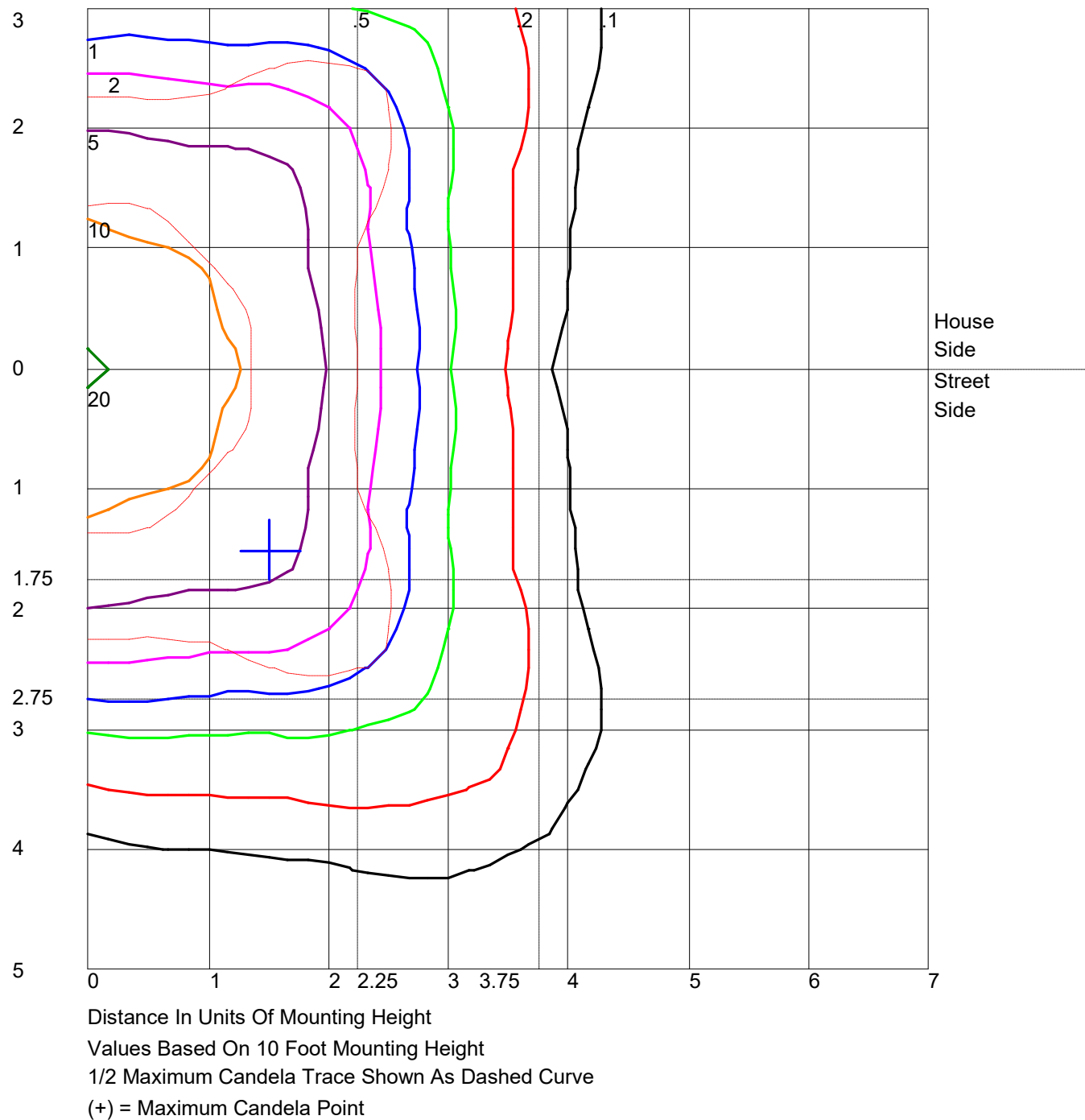
	Lumens	Percent Of Luminaire
Downward Street Side	9245.3	50.0
Downward House Side	9245.3	50.0
Downward Total	18490.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18490.6	100.0

POLAR GRAPH

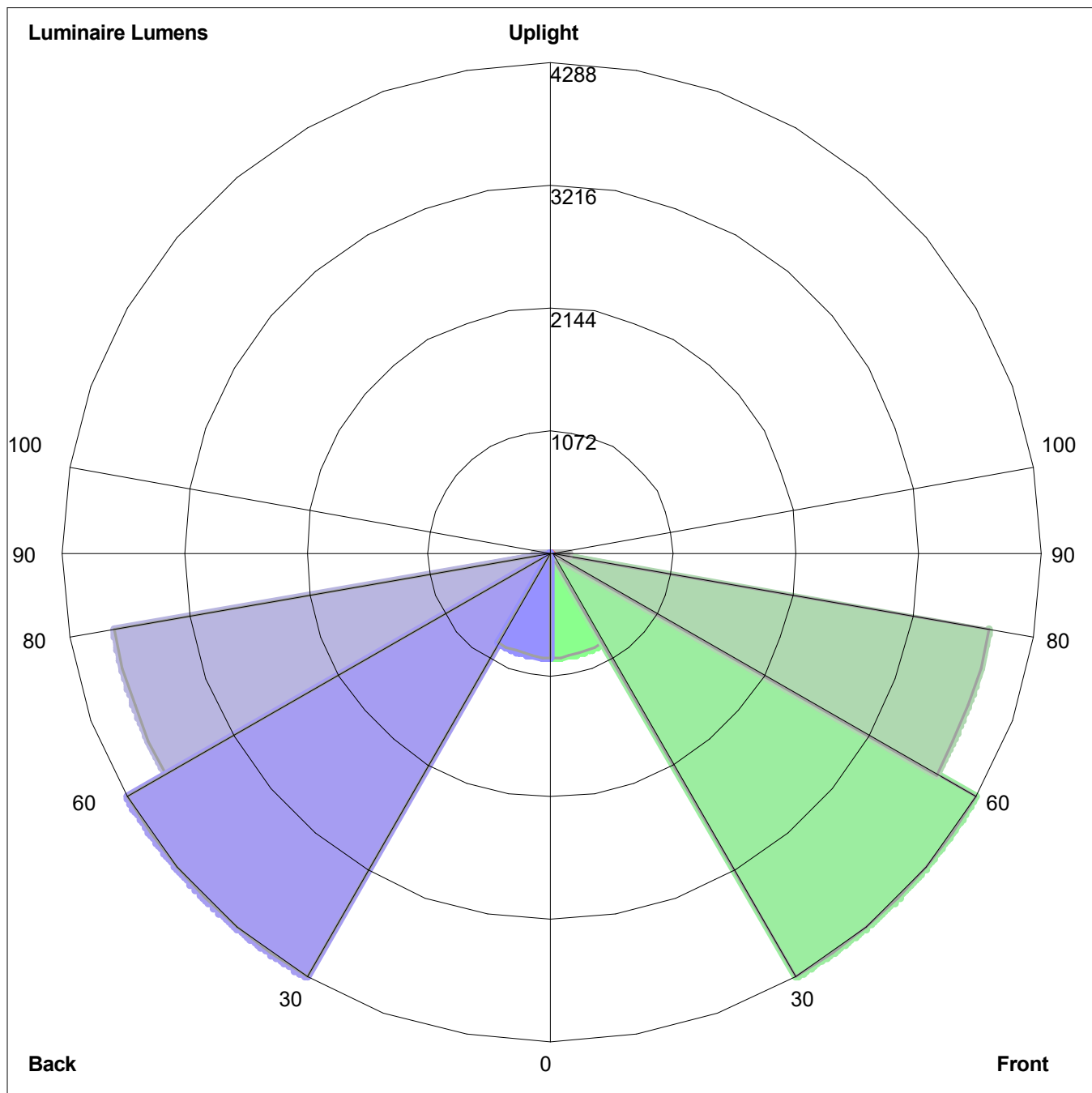


Maximum Candela = 9011 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=915.3, Medium= 4288.0, High=3889.4, Very High=152.7
Back: Low=915.3, Medium= 4288.0, High=3889.4, Very High=152.7
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2