



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-20L-5Q-40K8.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12892

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 10/22/2021

[TESTDATE] 08/18/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] HPG-20L-5Q-40K8

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19249
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	169
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9380
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	9380
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	1566 (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)	952.8	N.A.	5.0
FM - Front-Medium (30-60)	4463.7	N.A.	23.2
FH - Front-High (60-80)	4048.8	N.A.	21.0
FVH - Front-Very High (80-90)	158.9	N.A.	0.8
BL - Back-Low (0-30)	952.8	N.A.	5.0
BM - Back-Medium (30-60)	4463.7	N.A.	23.2
BH - Back-High (60-80)	4048.8	N.A.	21.0
BVH - Back-Very High (80-90)	158.9	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	19248.4	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	2201	2201	2201	2201	2201	2201	2201	2201	2201	2201
2.5	2207	2206	2203	2200	2206	2207	2207	2205	2211	2209
5.0	2200	2197	2199	2196	2194	2191	2190	2190	2196	2196
7.5	2182	2181	2183	2172	2177	2184	2179	2172	2179	2177
10.0	2168	2167	2165	2149	2143	2133	2143	2151	2164	2165
12.5	2158	2158	2151	2137	2120	2116	2124	2142	2156	2162
15.0	2159	2161	2147	2123	2115	2123	2119	2130	2158	2166
17.5	2185	2183	2157	2121	2125	2131	2130	2133	2171	2194
20.0	2237	2235	2189	2147	2154	2156	2163	2165	2206	2240
22.5	2307	2308	2245	2209	2210	2212	2221	2225	2256	2309
25.0	2394	2390	2317	2296	2300	2307	2309	2310	2329	2390
27.5	2482	2475	2404	2398	2419	2427	2427	2414	2411	2473
30.0	2582	2573	2503	2517	2543	2545	2545	2522	2507	2574
32.5	2696	2685	2616	2663	2674	2671	2671	2655	2613	2677
35.0	2803	2790	2731	2798	2821	2812	2820	2783	2718	2779
37.5	2911	2897	2834	2924	2976	2973	2969	2899	2813	2897
40.0	3021	3010	2933	3040	3136	3143	3125	3010	2907	3015
42.5	3200	3161	3038	3159	3294	3312	3292	3139	3026	3183
45.0	3532	3481	3225	3293	3464	3484	3484	3303	3226	3540
47.5	3707	3663	3550	3473	3670	3689	3721	3503	3611	3760
50.0	3995	3947	3754	3825	3946	4036	4018	3901	3859	4075
52.5	4398	4356	4142	4217	4414	4560	4506	4341	4248	4480
55.0	5050	5004	4722	4680	5000	5266	5069	4761	4792	5057
57.5	5735	5698	5434	5347	5835	6093	5828	5332	5402	5667
60.0	6153	6112	5945	5989	6787	7163	6661	5906	5903	6087
62.5	5991	5863	5828	6198	7532	8433	7357	6128	5798	5839
65.0	5170	5138	5222	5831	7739	9380	7620	5780	5162	5087
67.5	4030	4136	4375	5142	7416	8938	7276	5011	4263	4031
70.0	2523	2739	3040	3853	6276	7506	6050	3622	2929	2639
72.5	1283	1510	1812	2465	4556	5731	4332	2306	1724	1458
75.0	708	824	1060	1518	2791	3874	2766	1461	1046	809
77.5	483	524	622	1012	1894	2797	1941	1003	623	521
80.0	348	356	388	599	1299	1566	1366	611	398	357
82.5	234	231	257	440	609	700	658	440	264	231
85.0	127	137	172	297	405	209	426	281	176	138
87.5	72	81	100	126	177	57	162	107	100	80
90.0	0	0	0	0	0	0	0	0	0	0

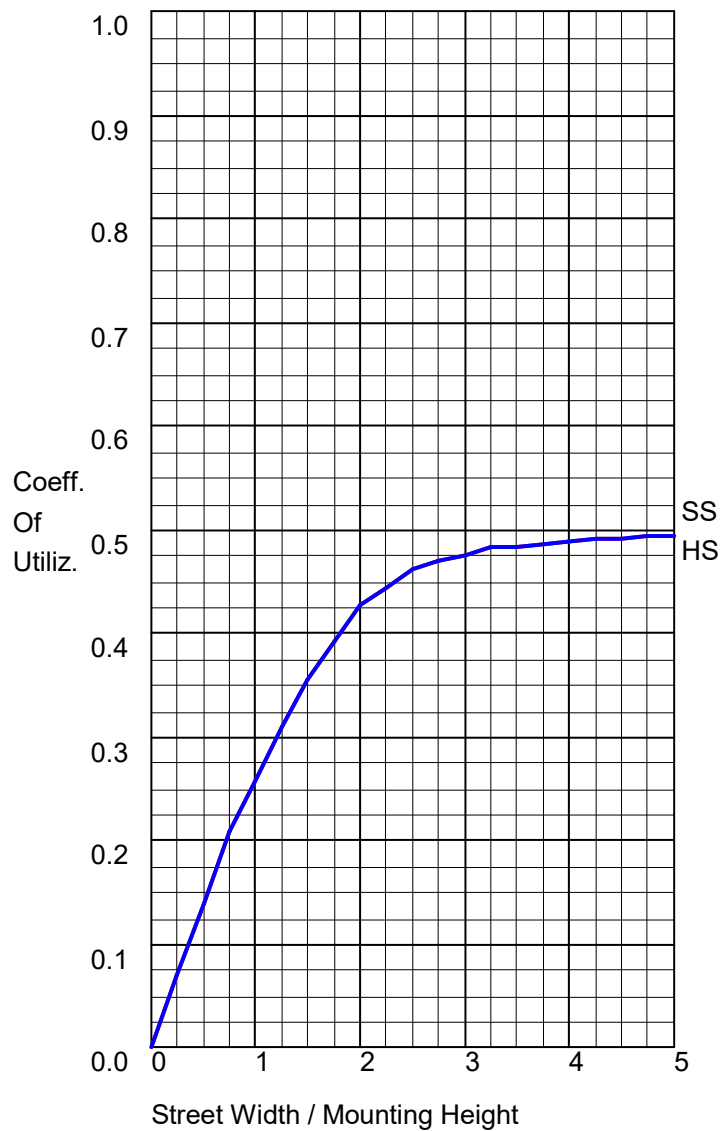
Vert. Angles	Horizontal Angles									
	<u>90</u>									
0.0	2201									
2.5	2208									
5.0	2194									
7.5	2176									
10.0	2164									
12.5	2160									
15.0	2165									
17.5	2193									
20.0	2237									
22.5	2304									
25.0	2386									
27.5	2475									

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CANDELA TABULATION - (Cont.)

30.0	2580
32.5	2690
35.0	2793
37.5	2909
40.0	3028
42.5	3210
45.0	3582
47.5	3787
50.0	4093
52.5	4474
55.0	5077
57.5	5677
60.0	6100
62.5	5872
65.0	5072
67.5	3954
70.0	2490
72.5	1293
75.0	704
77.5	471
80.0	344
82.5	231
85.0	129
87.5	73
90.0	0

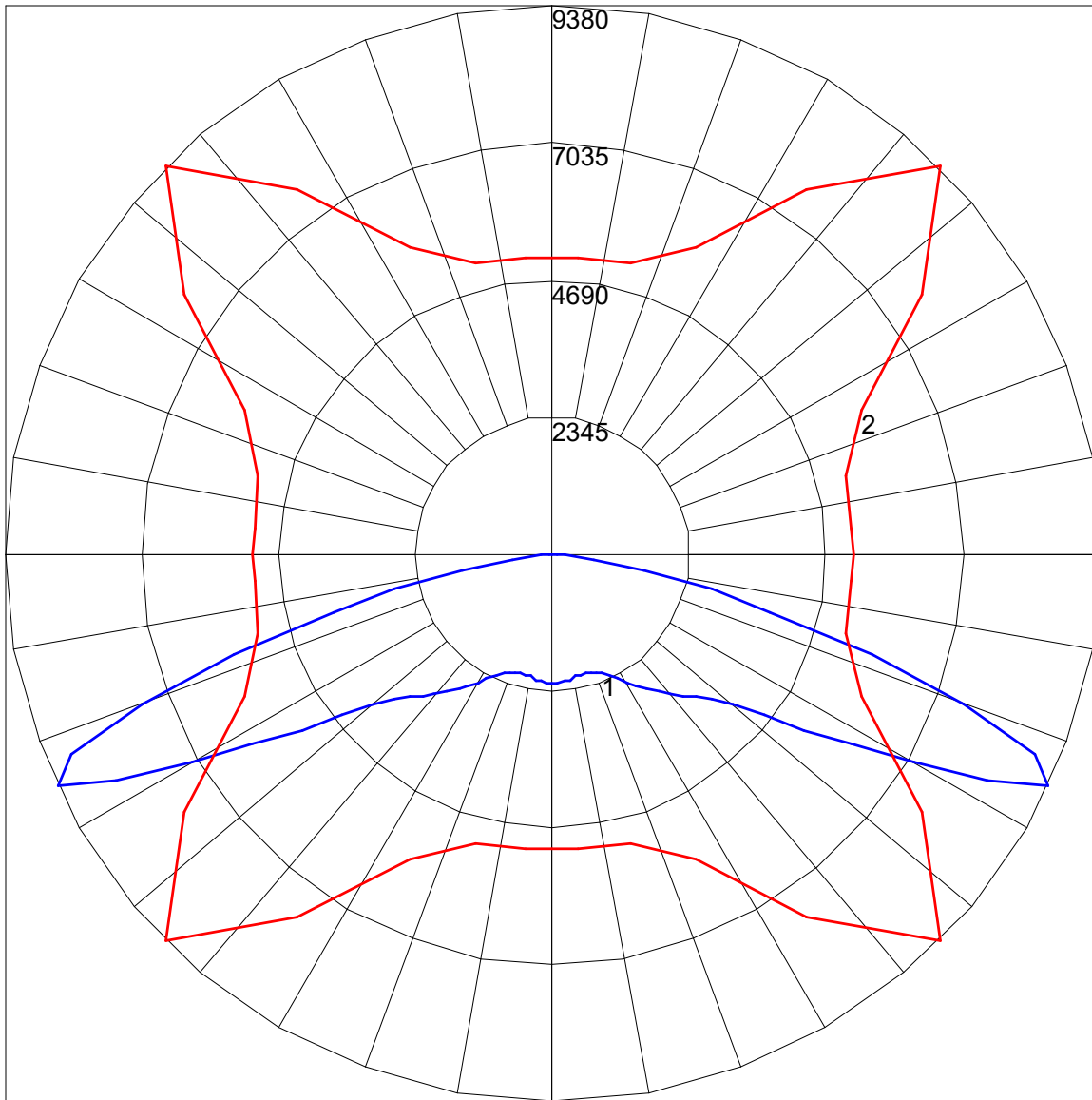
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

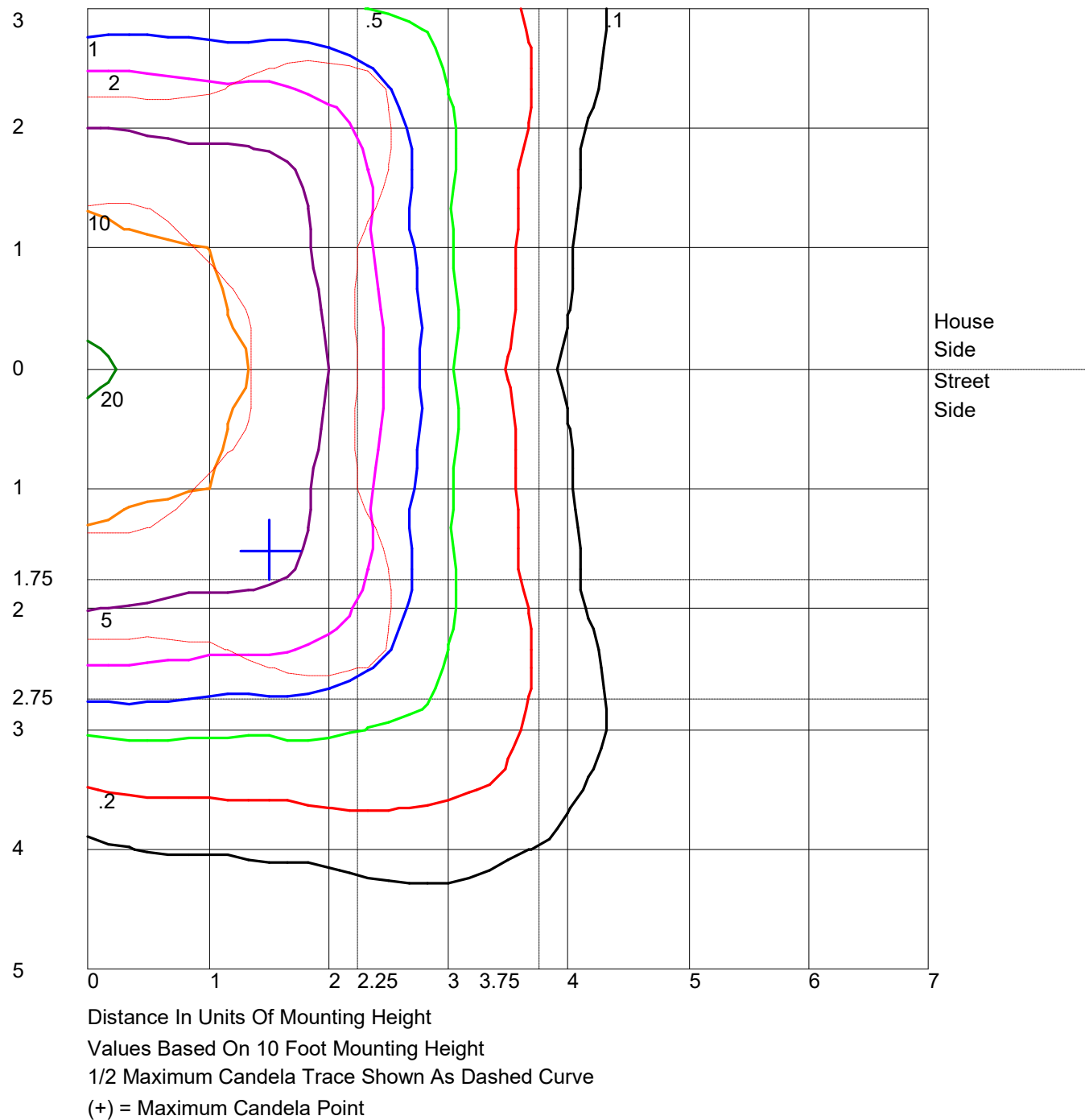
	Lumens	Percent Of Luminaire
Downward Street Side	9624.3	50.0
Downward House Side	9624.3	50.0
Downward Total	19248.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	19248.6	100.0

POLAR GRAPH

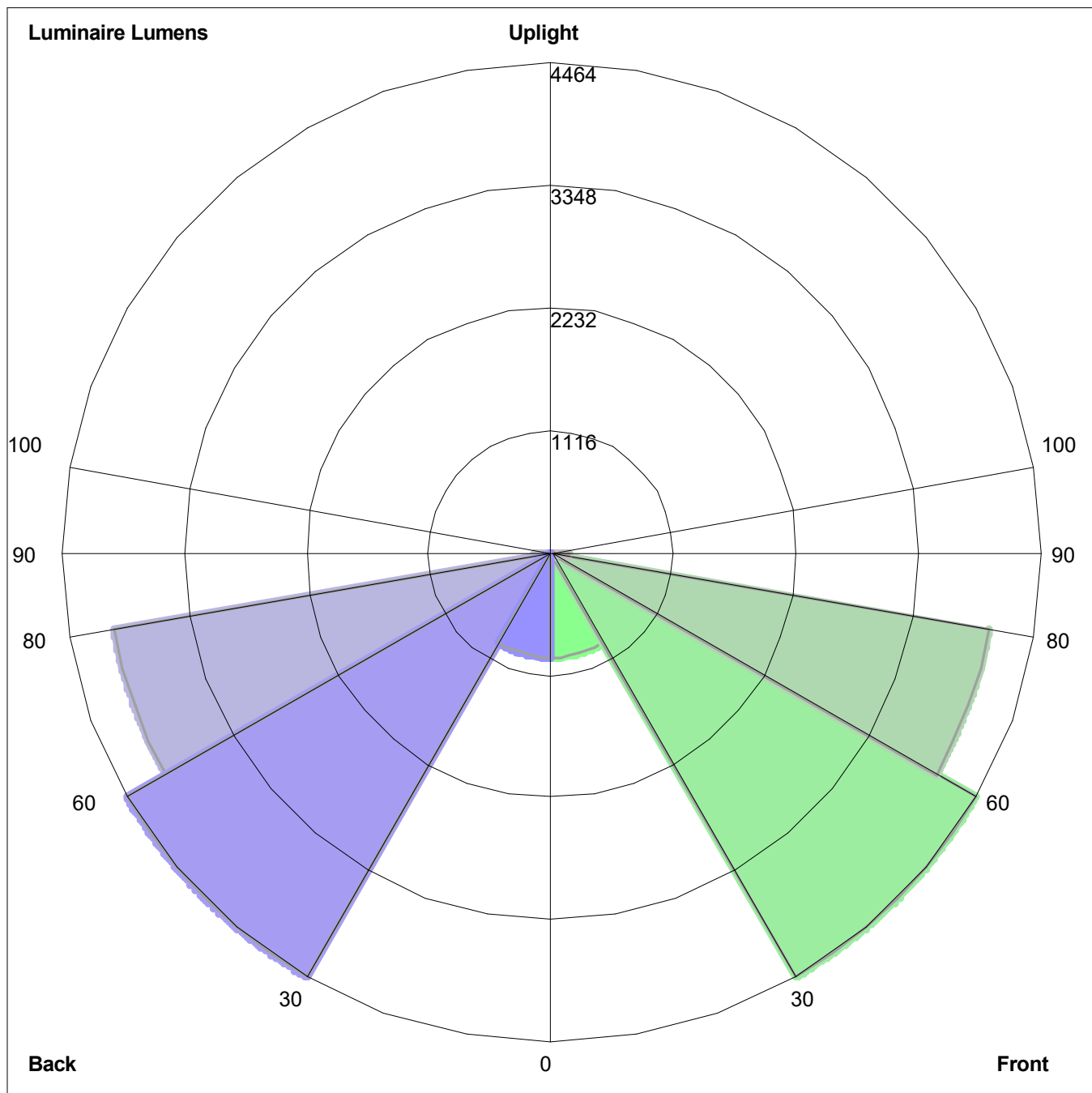


Maximum Candela = 9380 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=952.8, Medium=4463.7, High=4048.8, Very High=158.9
Back: Low=952.8, Medium=4463.7, High=4048.8, Very High=158.9
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2