



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-23L-5Q-40K8.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-23L-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_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLOR TEMP] 4000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21982
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	198
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10712
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	10712
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	1788 (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)	1088.2	N.A.	5.0
FM - Front-Medium (30-60)	5097.7	N.A.	23.2
FH - Front-High (60-80)	4623.8	N.A.	21.0
FVH - Front-Very High (80-90)	181.5	N.A.	0.8
BL - Back-Low (0-30)	1088.2	N.A.	5.0
BM - Back-Medium (30-60)	5097.7	N.A.	23.2
BH - Back-High (60-80)	4623.8	N.A.	21.0
BVH - Back-Very High (80-90)	181.5	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	21982.4	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	2514	2514	2514	2514	2514	2514	2514	2514	2514	2514
2.5	2521	2519	2516	2513	2519	2521	2521	2518	2525	2523
5.0	2512	2509	2511	2508	2506	2502	2501	2501	2508	2508
7.5	2492	2491	2493	2481	2486	2494	2488	2481	2488	2486
10.0	2476	2475	2473	2454	2447	2436	2447	2457	2471	2472
12.5	2464	2465	2457	2441	2421	2416	2426	2446	2462	2469
15.0	2466	2468	2452	2424	2415	2424	2420	2433	2464	2474
17.5	2495	2493	2463	2422	2427	2434	2432	2436	2479	2506
20.0	2555	2553	2500	2452	2460	2462	2470	2472	2519	2558
22.5	2635	2636	2564	2523	2524	2526	2537	2541	2576	2637
25.0	2734	2730	2646	2622	2627	2635	2637	2638	2660	2730
27.5	2835	2826	2746	2739	2763	2772	2772	2757	2753	2824
30.0	2949	2938	2858	2874	2904	2907	2907	2880	2863	2940
32.5	3079	3066	2988	3041	3054	3050	3050	3032	2984	3057
35.0	3201	3186	3119	3196	3222	3211	3220	3178	3104	3174
37.5	3325	3309	3237	3339	3399	3395	3391	3311	3212	3309
40.0	3450	3438	3350	3472	3582	3590	3569	3438	3320	3443
42.5	3655	3610	3470	3608	3762	3782	3760	3585	3456	3635
45.0	4034	3976	3683	3761	3956	3979	3979	3772	3684	4043
47.5	4234	4183	4054	3966	4191	4213	4249	4001	4124	4294
50.0	4562	4508	4287	4368	4507	4609	4589	4455	4407	4654
52.5	5023	4975	4730	4816	5041	5208	5146	4958	4851	5116
55.0	5767	5715	5393	5345	5710	6014	5789	5437	5473	5775
57.5	6550	6507	6206	6106	6664	6958	6656	6089	6169	6472
60.0	7027	6980	6790	6840	7751	8181	7607	6745	6741	6952
62.5	6842	6696	6656	7078	8602	9631	8402	6998	6621	6668
65.0	5904	5868	5964	6659	8838	10712	8702	6601	5895	5809
67.5	4602	4723	4996	5872	8469	10208	8310	5723	4868	4604
70.0	2881	3128	3472	4400	7167	8572	6909	4136	3345	3014
72.5	1465	1725	2069	2815	5203	6545	4947	2633	1969	1665
75.0	809	941	1210	1734	3187	4424	3159	1668	1195	924
77.5	552	598	710	1156	2163	3194	2217	1146	711	595
80.0	397	407	443	684	1483	1788	1560	698	455	408
82.5	267	264	293	503	696	799	751	503	301	264
85.0	145	156	197	339	462	239	486	321	201	158
87.5	82	92	114	144	202	65	185	122	114	91
90.0	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles** **Horizontal Angles**

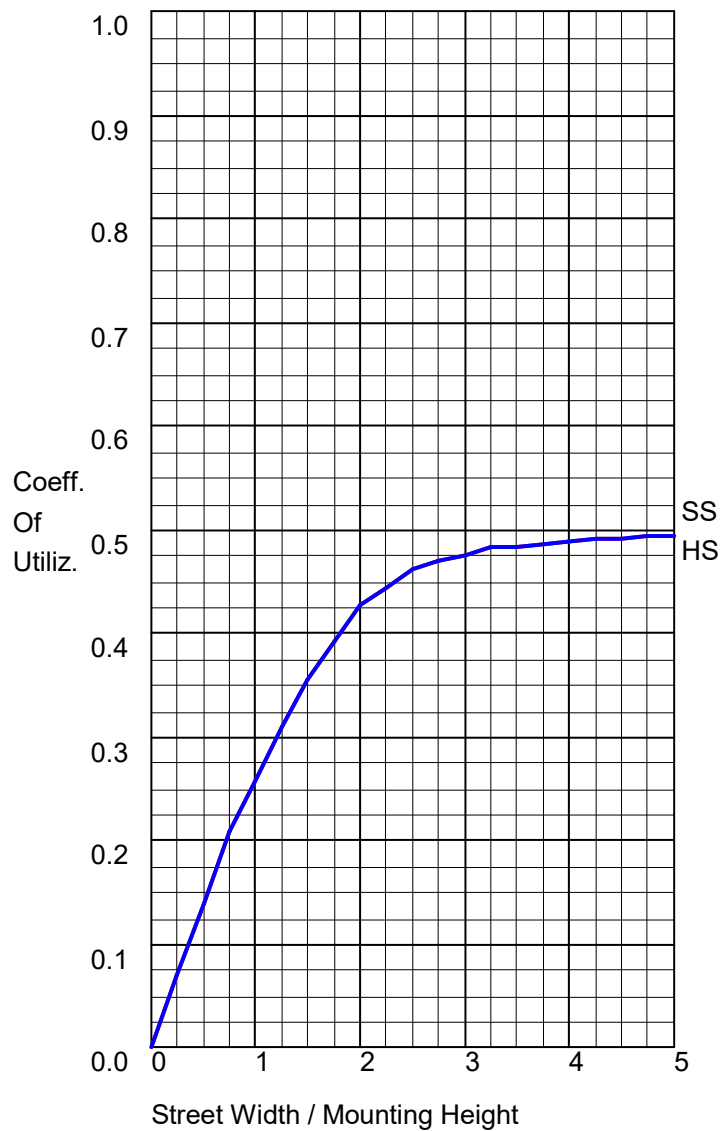
	<u>90</u>
0.0	2514
2.5	2522
5.0	2506
7.5	2485
10.0	2471
12.5	2467
15.0	2472
17.5	2504
20.0	2555
22.5	2631
25.0	2725
27.5	2826

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CANDELA TABULATION - (Cont.)

30.0	2947
32.5	3072
35.0	3190
37.5	3322
40.0	3458
42.5	3666
45.0	4091
47.5	4325
50.0	4674
52.5	5109
55.0	5798
57.5	6483
60.0	6967
62.5	6706
65.0	5793
67.5	4516
70.0	2844
72.5	1477
75.0	804
77.5	538
80.0	393
82.5	264
85.0	147
87.5	83
90.0	0

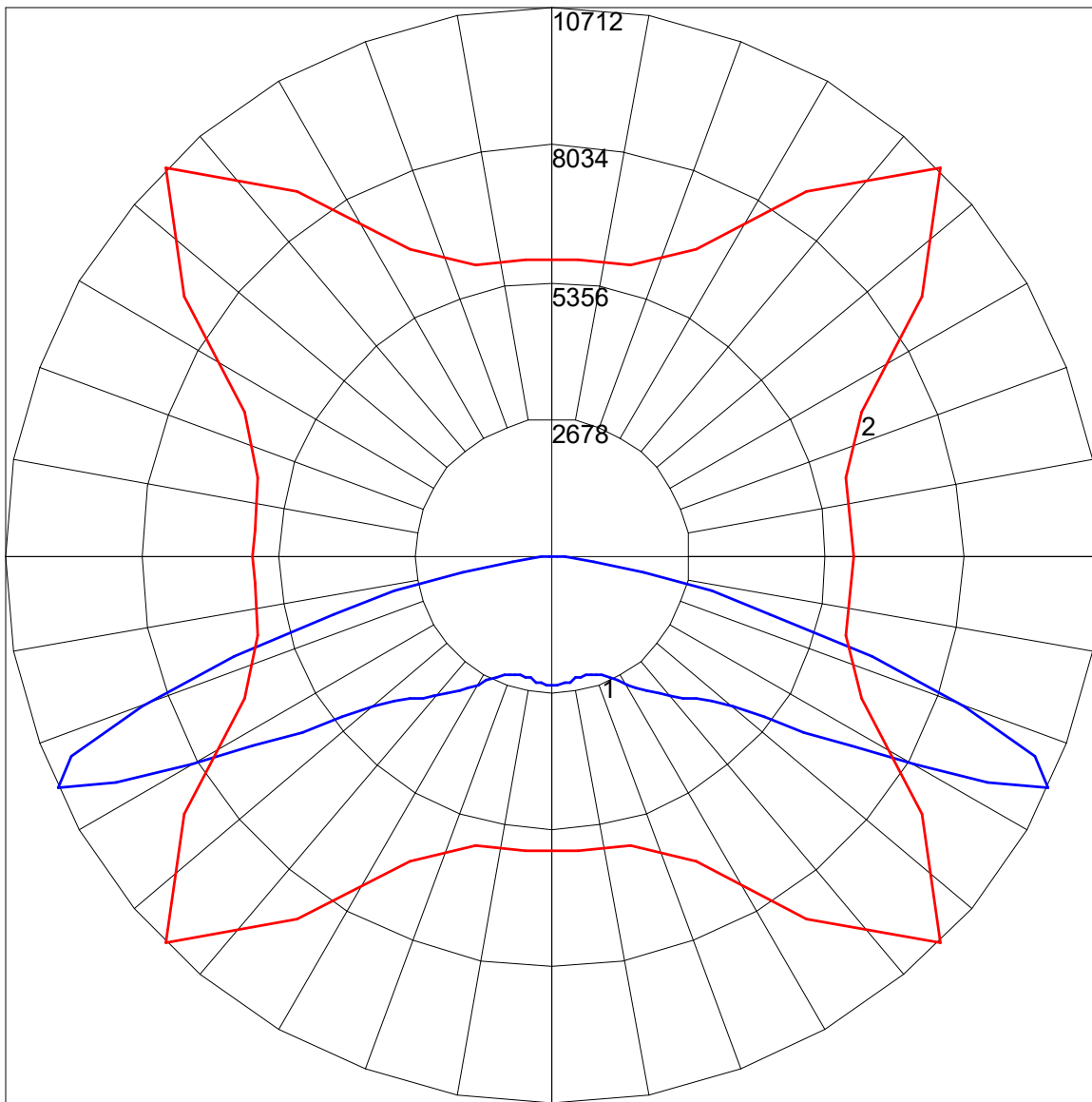
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

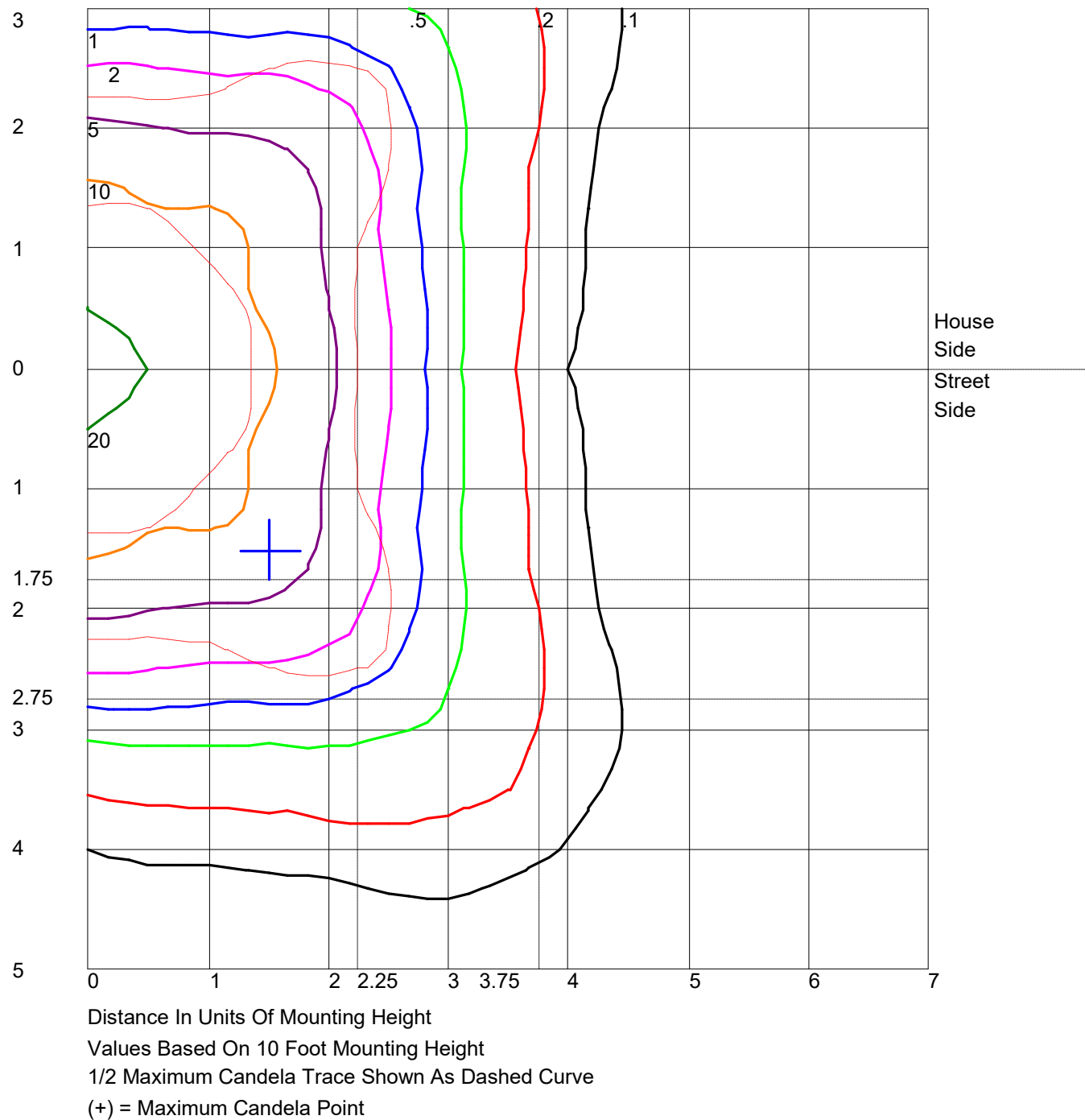
	Lumens	Percent Of Luminaire
Downward Street Side	10991.2	50.0
Downward House Side	10991.2	50.0
Downward Total	21982.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21982.4	100.0

POLAR GRAPH

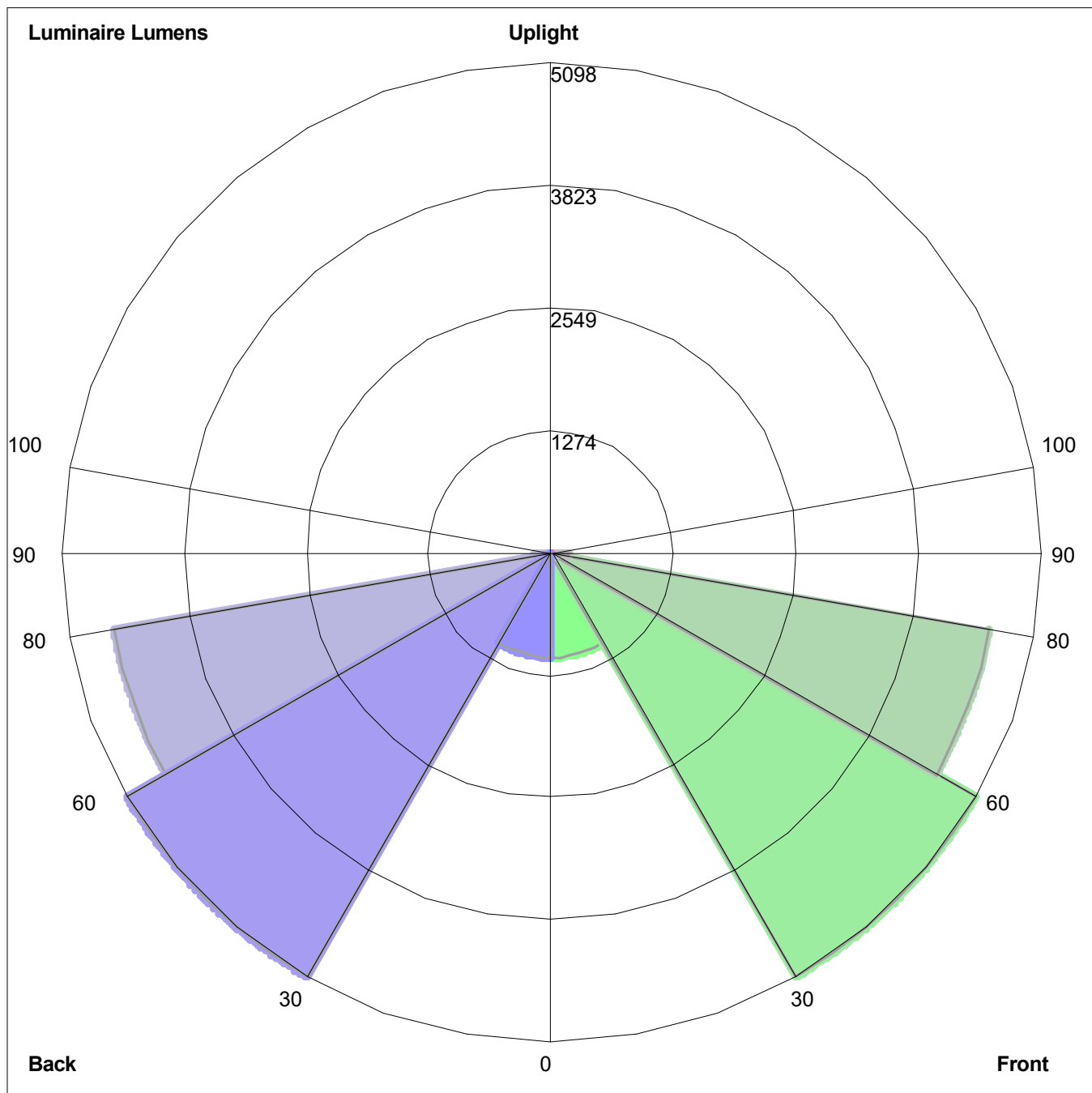


Maximum Candela = 10712 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1088.2, Medium=5097.7, High=4623.8, Very High=181.5
Back: Low=1088.2, Medium=5097.7, High=4623.8, Very High=181.5
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2