



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-23L-5R-40K8.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12912

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 10/22/2021

[TEST DATE] 08/25/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] HPG-23L-5R-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	24394
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	198
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6999
Maximum Candela Angle	45H 62.5V
Maximum Candela (<90 Degrees Vertical)	6999
Maximum Candela Angle (<90 Degrees Vertical)	45H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1222 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2293.8	N.A.	9.4
FM - Front-Medium (30-60)	6492.7	N.A.	26.6
FH - Front-High (60-80)	3278.5	N.A.	13.4
FVH - Front-Very High (80-90)	131.7	N.A.	0.5
BL - Back-Low (0-30)	2293.8	N.A.	9.4
BM - Back-Medium (30-60)	6492.7	N.A.	26.6
BH - Back-High (60-80)	3278.5	N.A.	13.4
BVH - Back-Very High (80-90)	131.7	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	24393.4	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	5503	5503	5503	5503	5503	5503	5503	5503	5503	5503
2.5	5479	5479	5483	5475	5503	5517	5522	5535	5558	5560
5.0	5462	5467	5467	5461	5493	5510	5527	5542	5565	5563
7.5	5432	5437	5444	5444	5485	5501	5514	5533	5569	5567
10.0	5392	5398	5403	5401	5439	5469	5499	5517	5562	5559
12.5	5372	5379	5381	5382	5421	5439	5465	5505	5551	5551
15.0	5360	5360	5361	5364	5401	5428	5437	5485	5539	5548
17.5	5364	5359	5356	5351	5388	5410	5422	5447	5527	5552
20.0	5364	5367	5366	5361	5383	5397	5409	5421	5514	5561
22.5	5384	5390	5386	5376	5403	5402	5400	5413	5501	5570
25.0	5412	5423	5422	5407	5432	5423	5407	5415	5489	5571
27.5	5442	5451	5461	5452	5467	5452	5425	5416	5474	5571
30.0	5472	5475	5494	5489	5503	5474	5435	5418	5471	5589
32.5	5469	5482	5520	5525	5532	5495	5457	5436	5477	5605
35.0	5464	5475	5523	5549	5561	5525	5483	5448	5472	5613
37.5	5461	5474	5520	5553	5579	5549	5498	5435	5445	5604
40.0	5446	5461	5495	5547	5583	5557	5504	5401	5404	5583
42.5	5528	5515	5501	5547	5581	5560	5504	5381	5358	5550
45.0	5837	5805	5603	5572	5593	5558	5520	5358	5322	5528
47.5	5882	5888	5910	5650	5635	5581	5533	5322	5307	5552
50.0	5912	5904	5918	5863	5729	5636	5564	5308	5335	5617
52.5	5979	5985	6012	6100	5882	5783	5633	5313	5327	5624
55.0	6038	6054	6141	6190	5983	5969	5779	5268	5295	5645
57.5	5979	6021	6235	6324	6270	6239	5890	5218	5336	5781
60.0	5685	5729	6067	6257	6565	6649	5939	5148	5231	5671
62.5	5105	5159	5441	5795	6588	6999	5955	4918	4767	5071
65.0	4280	4342	4566	5057	6073	6781	5827	4482	4131	4239
67.5	3270	3301	3528	4051	4991	5904	5366	3751	3341	3207
70.0	2370	2394	2534	2999	3752	4706	4452	2808	2484	2098
72.5	1624	1651	1743	2103	2808	3574	3208	1880	1497	1121
75.0	1166	1193	1227	1458	2052	2815	2172	1359	1006	716
77.5	833	859	855	986	1536	2124	1606	876	520	386
80.0	581	570	554	644	1142	1222	919	438	346	286
82.5	317	320	311	459	630	555	340	244	237	199
85.0	153	153	167	266	407	199	122	135	153	129
87.5	77	77	96	92	130	51	42	46	53	60
90.0	0	0	0	0	0	0	0	0	0	0

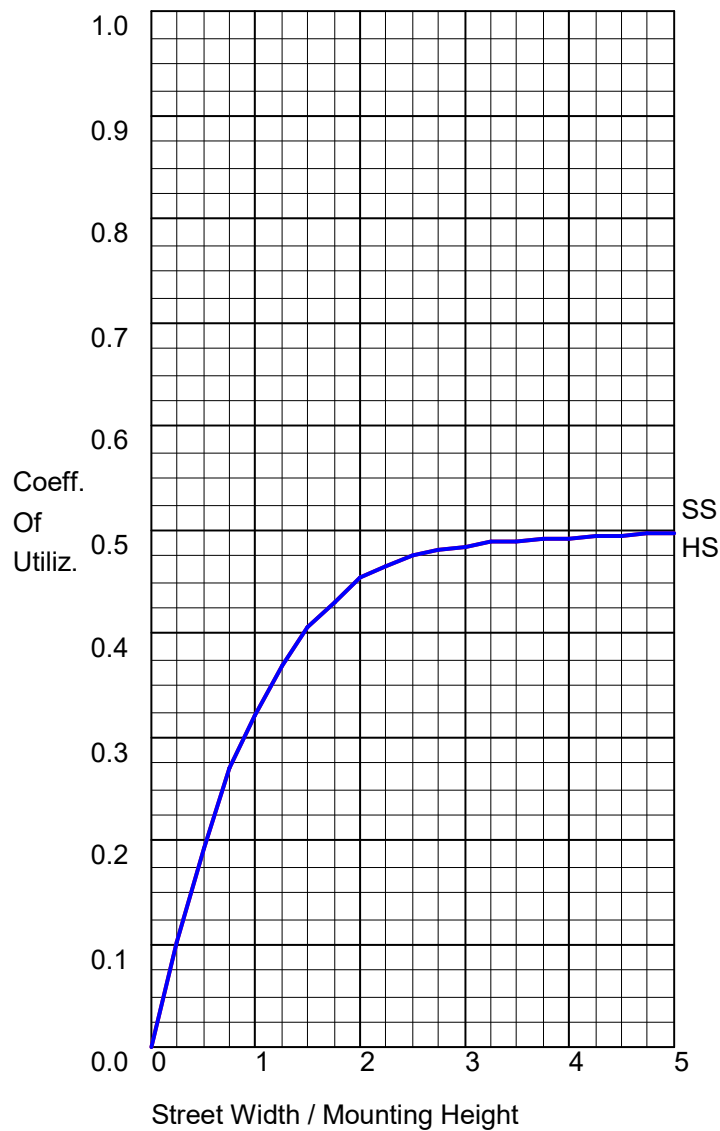
Vert. Angles	Horizontal Angles
	<u>90</u>
0.0	5503
2.5	5555
5.0	5562
7.5	5564
10.0	5554
12.5	5552
15.0	5546
17.5	5546
20.0	5561
22.5	5565
25.0	5576
27.5	5586

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CANDELA TABULATION - (Cont.)

30.0	5602
32.5	5625
35.0	5630
37.5	5628
40.0	5612
42.5	5583
45.0	5560
47.5	5598
50.0	5669
52.5	5668
55.0	5689
57.5	5836
60.0	5792
62.5	5248
65.0	4359
67.5	3230
70.0	2039
72.5	967
75.0	620
77.5	354
80.0	269
82.5	181
85.0	118
87.5	53
90.0	0

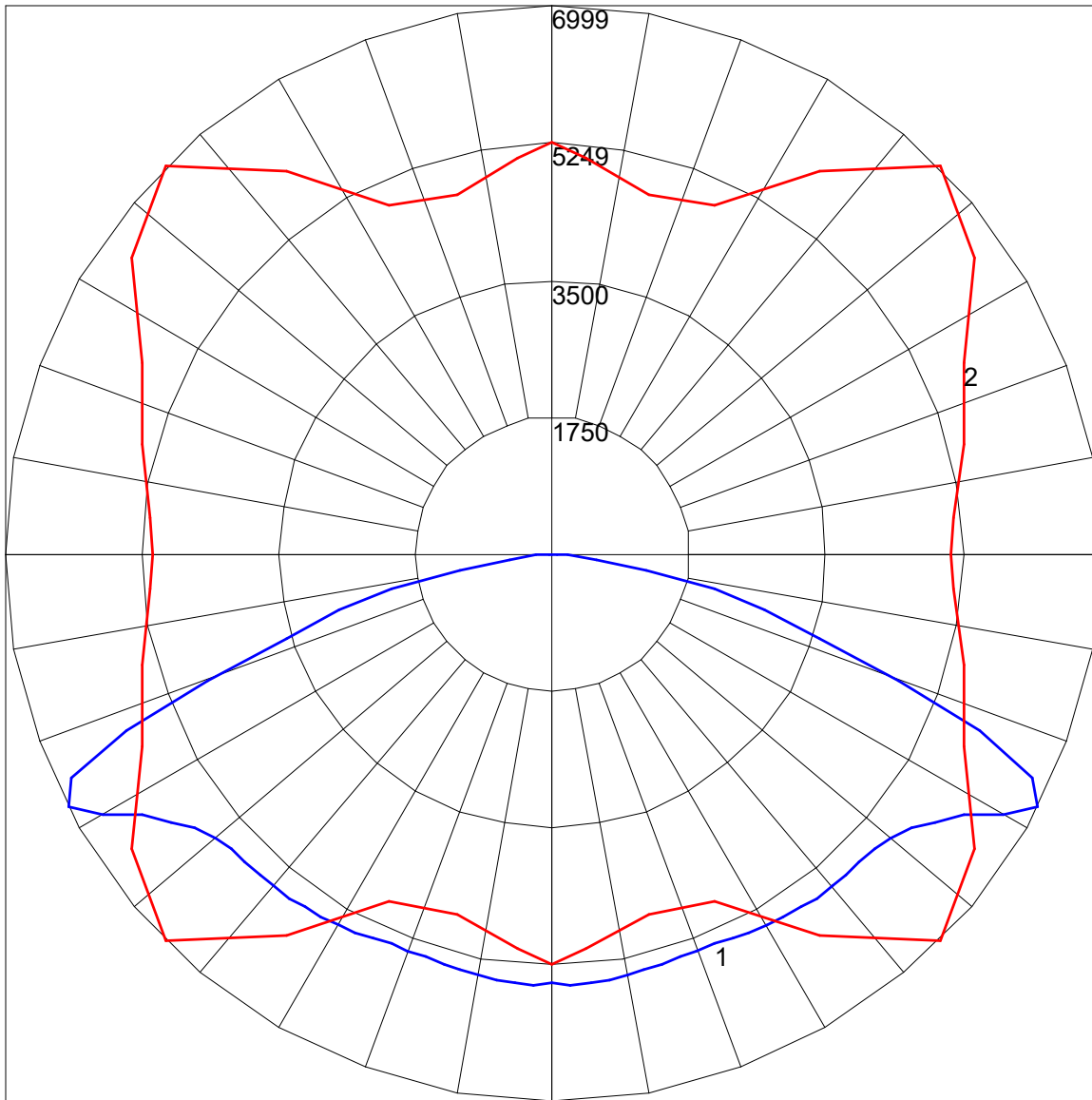
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

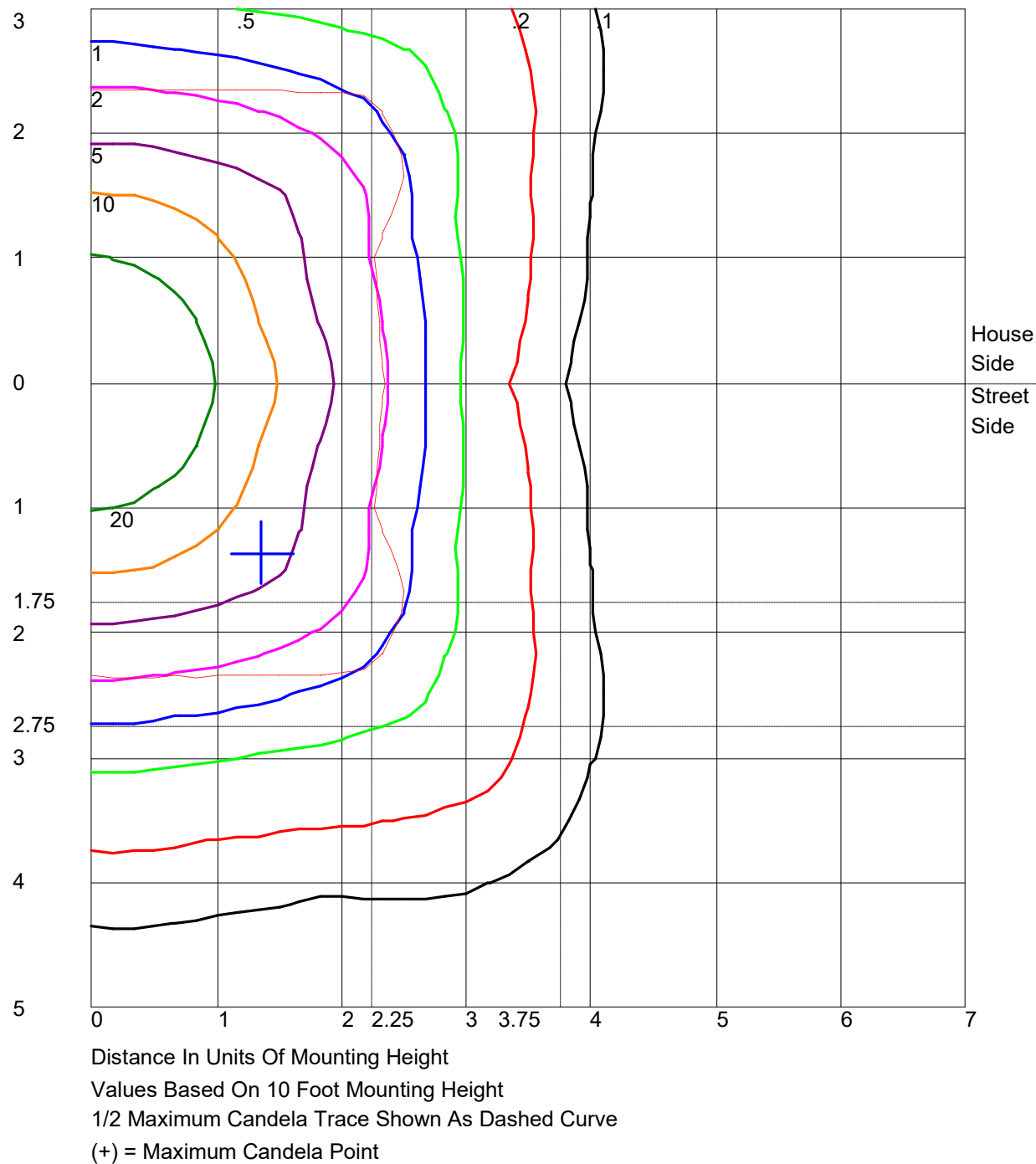
	Lumens	Percent Of Luminaire
Downward Street Side	12196.8	50.0
Downward House Side	12196.8	50.0
Downward Total	24393.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	24393.6	100.0

POLAR GRAPH

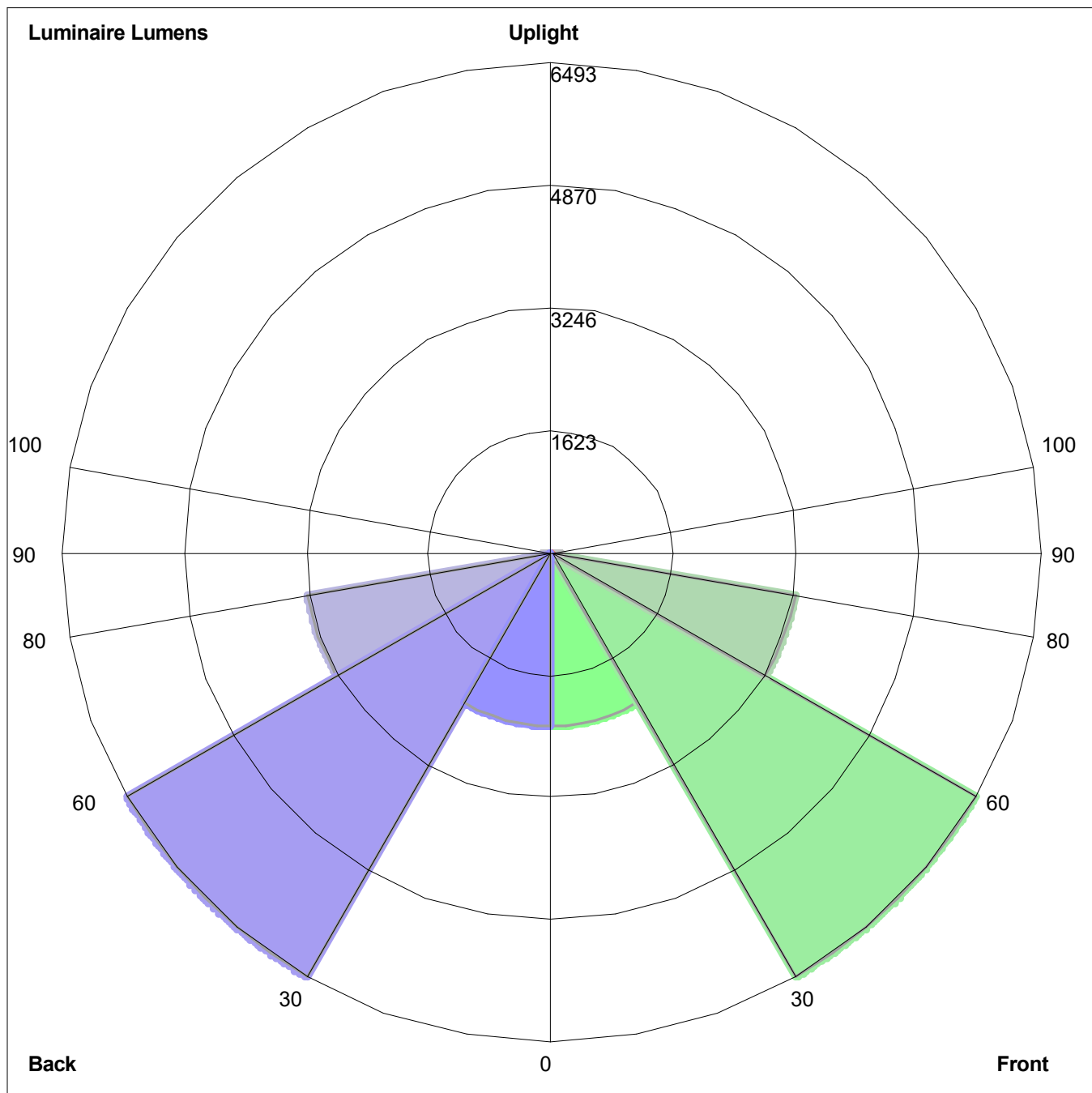


Maximum Candela = 6999 Located At Horizontal Angle = 45, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2293.8, Medium=6492.7, High=3278.5, Very High=131.7
Back: Low=2293.8, Medium=6492.7, High=3278.5, Very High=131.7
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2