



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-23L-5R-30K8.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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] HPG-23L-5R-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_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23433
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	198
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6723
Maximum Candela Angle	45H 62.5V
Maximum Candela (<90 Degrees Vertical)	6723
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	1174 (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)	2203.5	N.A.	9.4
FM - Front-Medium (30-60)	6237.0	N.A.	26.6
FH - Front-High (60-80)	3149.5	N.A.	13.4
FVH - Front-Very High (80-90)	126.6	N.A.	0.5
BL - Back-Low (0-30)	2203.5	N.A.	9.4
BM - Back-Medium (30-60)	6237.0	N.A.	26.6
BH - Back-High (60-80)	3149.5	N.A.	13.4
BVH - Back-Very High (80-90)	126.6	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	23433.2	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	5286	5286	5286	5286	5286	5286	5286	5286	5286	5286
2.5	5263	5263	5267	5259	5286	5300	5305	5317	5339	5341
5.0	5247	5252	5252	5246	5277	5293	5309	5324	5346	5344
7.5	5218	5223	5230	5230	5269	5284	5297	5315	5350	5348
10.0	5180	5185	5190	5188	5225	5254	5283	5300	5343	5340
12.5	5161	5167	5169	5170	5208	5225	5250	5288	5332	5332
15.0	5149	5149	5150	5153	5188	5214	5223	5269	5321	5330
17.5	5153	5148	5145	5140	5176	5197	5209	5233	5309	5333
20.0	5153	5156	5155	5150	5171	5185	5196	5208	5297	5342
22.5	5172	5178	5174	5164	5190	5189	5187	5200	5284	5351
25.0	5199	5209	5209	5194	5218	5209	5194	5202	5273	5352
27.5	5228	5236	5246	5237	5252	5237	5211	5203	5258	5352
30.0	5257	5259	5278	5273	5286	5258	5221	5205	5256	5369
32.5	5254	5266	5303	5307	5314	5279	5242	5222	5261	5384
35.0	5249	5259	5306	5331	5342	5307	5267	5234	5257	5392
37.5	5246	5258	5303	5334	5359	5331	5282	5221	5231	5383
40.0	5232	5246	5279	5329	5363	5338	5287	5188	5191	5363
42.5	5310	5298	5284	5329	5361	5341	5287	5169	5147	5331
45.0	5607	5576	5382	5353	5373	5339	5303	5147	5112	5310
47.5	5650	5656	5677	5428	5413	5361	5315	5112	5098	5333
50.0	5679	5672	5685	5632	5503	5414	5345	5099	5125	5396
52.5	5744	5749	5775	5860	5650	5555	5411	5104	5117	5403
55.0	5800	5816	5899	5946	5747	5734	5551	5061	5087	5423
57.5	5744	5784	5990	6075	6023	5993	5658	5013	5126	5553
60.0	5461	5503	5828	6011	6307	6387	5705	4945	5025	5448
62.5	4904	4956	5227	5567	6329	6723	5721	4724	4579	4871
65.0	4111	4171	4386	4858	5834	6514	5598	4306	3968	4072
67.5	3141	3171	3389	3892	4795	5672	5155	3603	3209	3081
70.0	2277	2300	2434	2881	3604	4521	4277	2697	2386	2015
72.5	1560	1586	1674	2020	2697	3433	3082	1806	1438	1077
75.0	1120	1146	1179	1401	1971	2704	2086	1305	966	688
77.5	800	825	821	947	1476	2040	1543	842	500	371
80.0	558	548	532	619	1097	1174	883	421	332	275
82.5	305	307	299	441	605	533	327	234	228	191
85.0	147	147	160	256	391	191	117	130	147	124
87.5	74	74	92	88	125	49	40	44	51	58
90.0	0	0	0	0	0	0	0	0	0	0

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

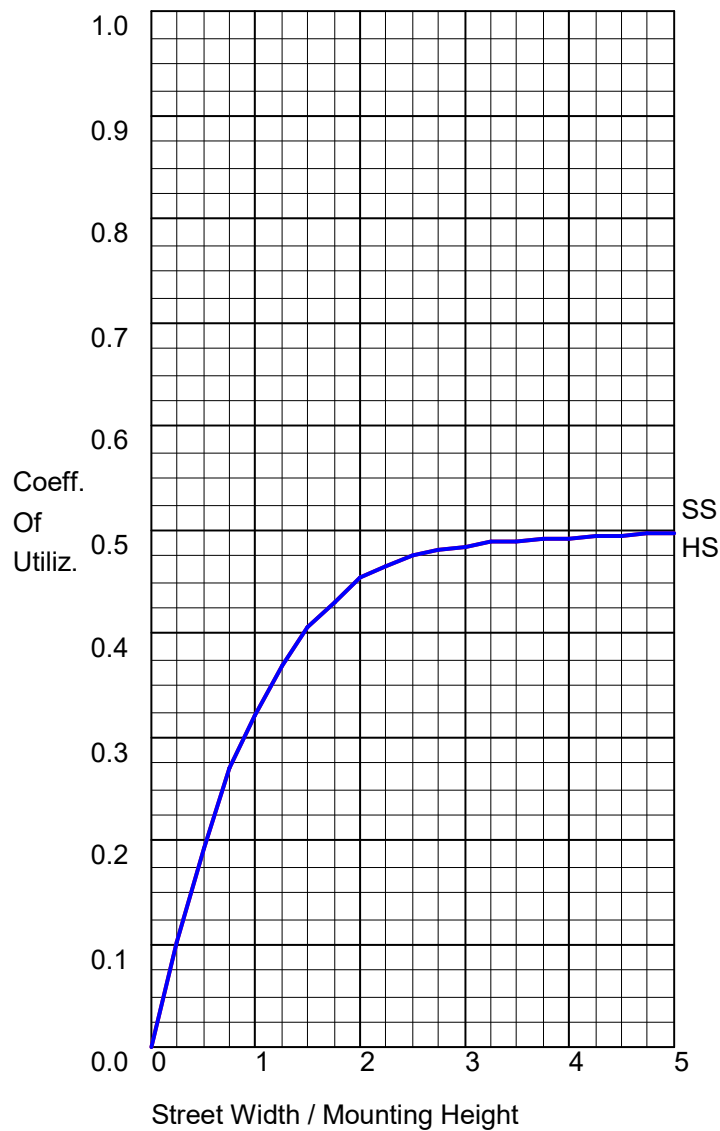
	<u>90</u>
0.0	5286
2.5	5336
5.0	5343
7.5	5345
10.0	5335
12.5	5333
15.0	5328
17.5	5328
20.0	5342
22.5	5346
25.0	5356
27.5	5366

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CANDELA TABULATION - (Cont.)

30.0	5381
32.5	5404
35.0	5408
37.5	5406
40.0	5391
42.5	5363
45.0	5341
47.5	5378
50.0	5446
52.5	5445
55.0	5465
57.5	5606
60.0	5564
62.5	5041
65.0	4187
67.5	3103
70.0	1959
72.5	929
75.0	596
77.5	340
80.0	258
82.5	174
85.0	113
87.5	51
90.0	0

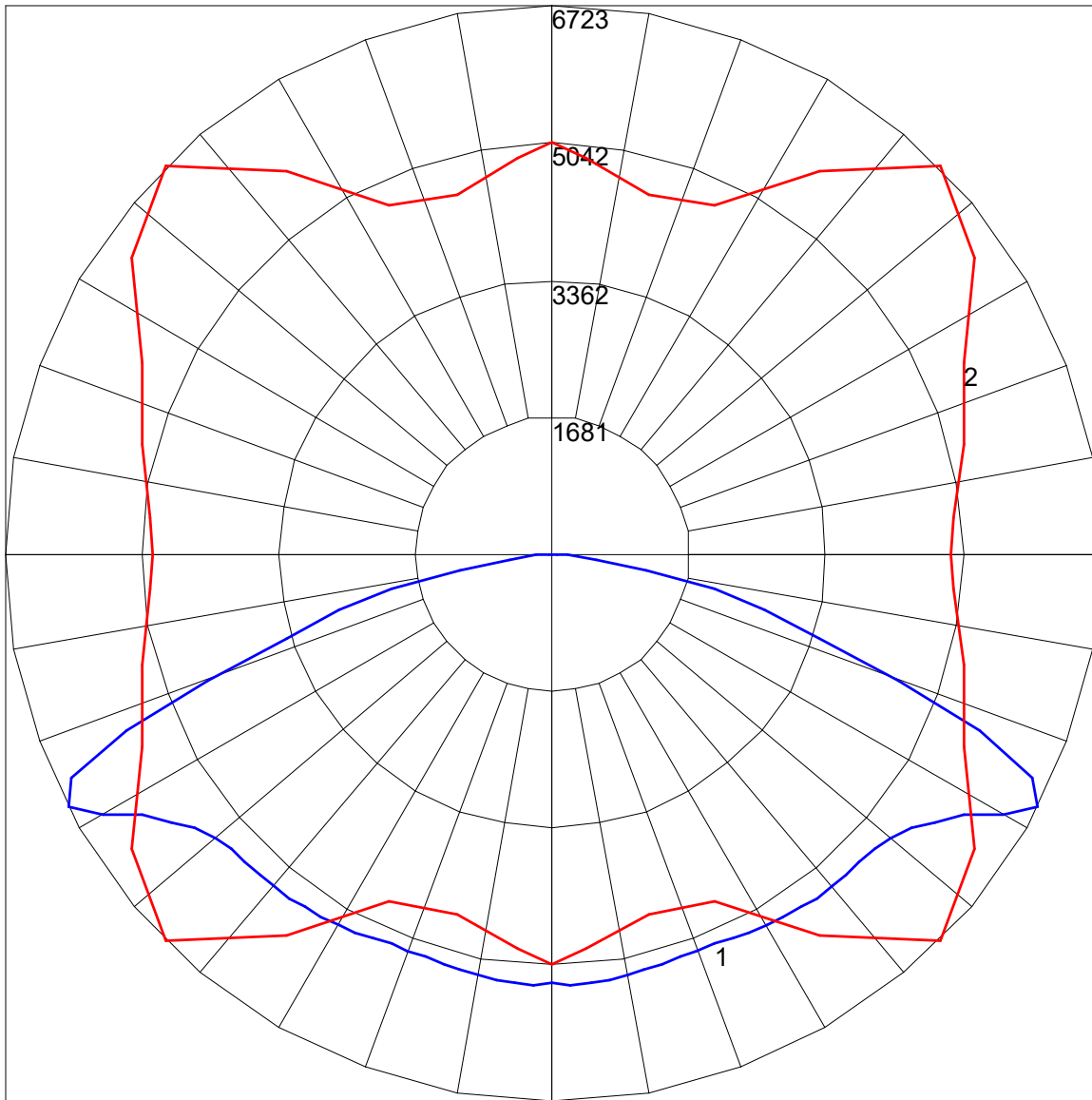
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

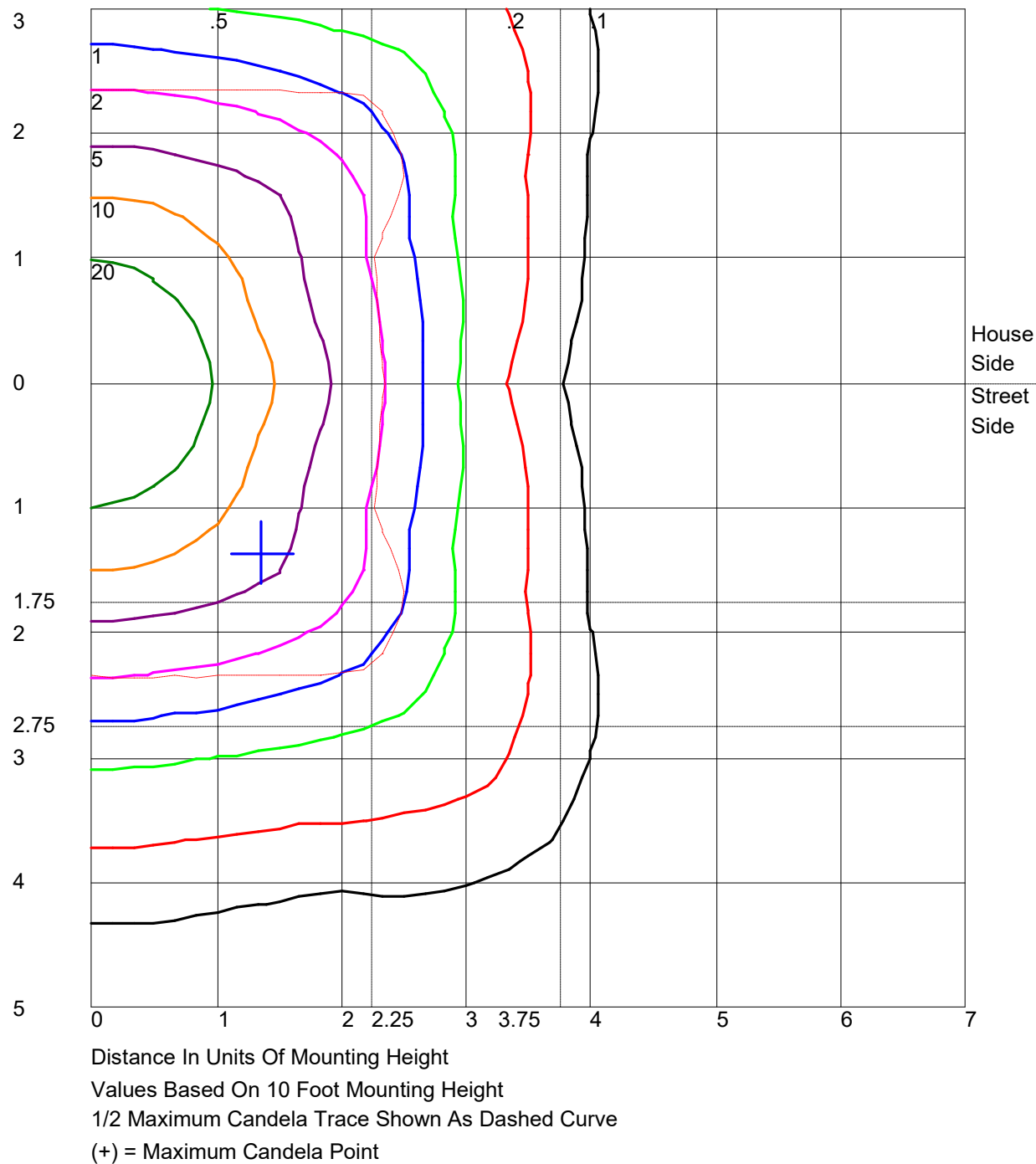
	Lumens	Percent Of Luminaire
Downward Street Side	11716.5	50.0
Downward House Side	11716.5	50.0
Downward Total	23433.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23433.0	100.0

POLAR GRAPH

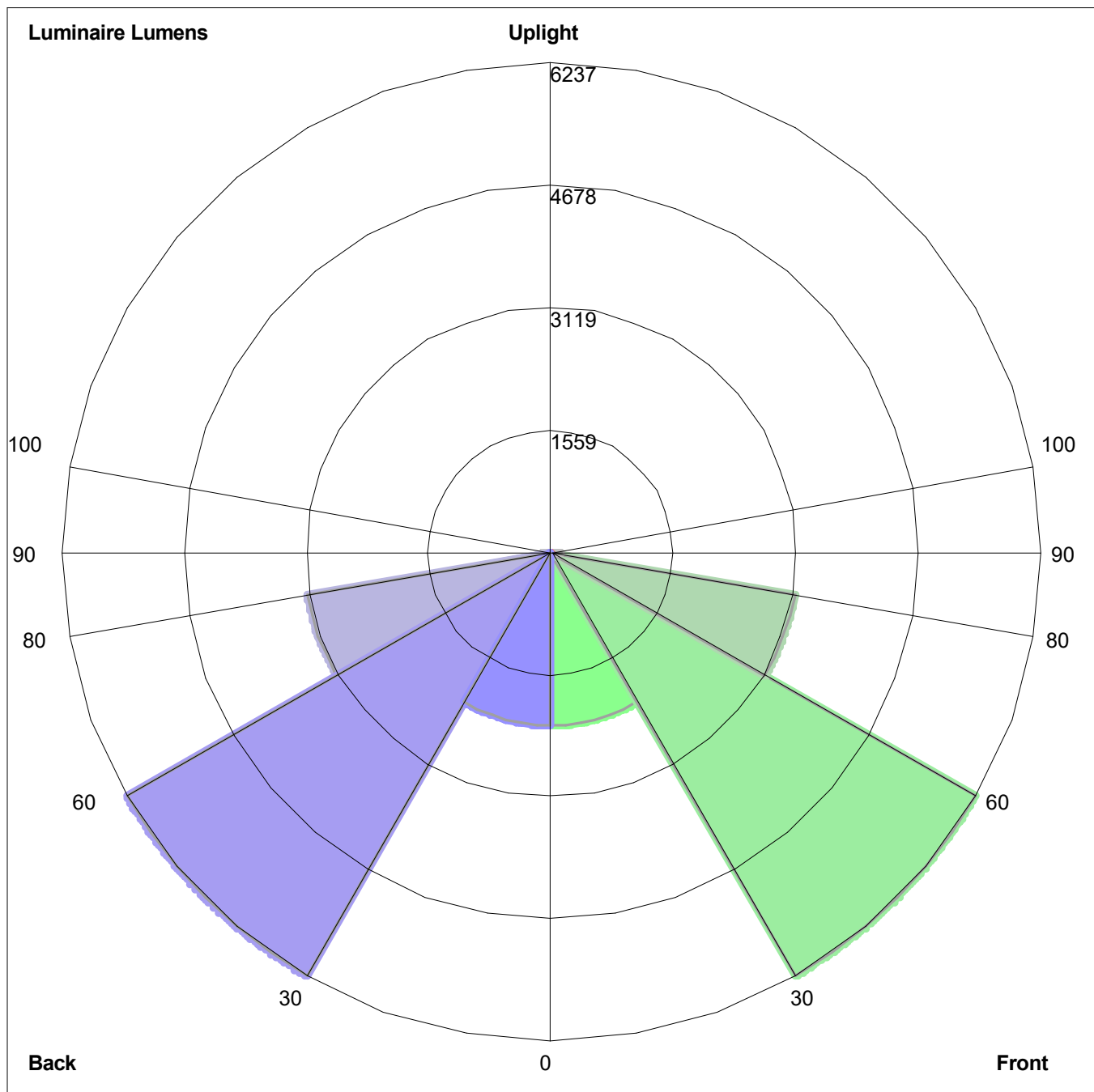


Maximum Candela = 6723 Located At Horizontal Angle = 45, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2203.5, Medium= 6237.0, High=3149.5, Very High=126.6
Back: Low=2203.5, Medium= 6237.0, High=3149.5, Very High=126.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2