



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12245

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 10/22/2021

[TEST DATE] 10/02/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] HPG-23L-5C-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	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24125
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	198
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7955
Maximum Candela Angle	0H 5V
Maximum Candela (<90 Degrees Vertical)	7955
Maximum Candela Angle (<90 Degrees Vertical)	0H 5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	407 (1.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3235.2	N.A.	13.4
FM - Front-Medium (30-60)	6715.5	N.A.	27.8
FH - Front-High (60-80)	2051.2	N.A.	8.5
FVH - Front-Very High (80-90)	60.9	N.A.	0.3
BL - Back-Low (0-30)	3235.2	N.A.	13.4
BM - Back-Medium (30-60)	6715.5	N.A.	27.8
BH - Back-High (60-80)	2051.2	N.A.	8.5
BVH - Back-Very High (80-90)	60.9	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	24125.6	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	7920	7920	7920	7920	7920	7920	7920	7920	7920	7920
2.5	7954	7947	7942	7934	7931	7924	7927	7929	7939	7940
5.0	7955	7949	7944	7935	7933	7925	7929	7931	7942	7942
7.5	7944	7942	7935	7927	7925	7916	7918	7921	7933	7934
10.0	7926	7922	7916	7907	7905	7899	7900	7903	7914	7914
12.5	7900	7895	7890	7881	7877	7871	7873	7875	7887	7888
15.0	7863	7858	7854	7846	7842	7836	7836	7840	7850	7853
17.5	7817	7813	7805	7800	7796	7791	7791	7793	7803	7806
20.0	7758	7754	7747	7740	7738	7734	7733	7734	7743	7746
22.5	7683	7678	7674	7662	7662	7661	7660	7658	7669	7672
25.0	7592	7587	7580	7568	7572	7570	7571	7568	7577	7577
27.5	7482	7476	7466	7458	7462	7463	7463	7458	7467	7465
30.0	7352	7342	7334	7328	7333	7335	7336	7330	7333	7334
32.5	7199	7191	7182	7177	7185	7182	7188	7182	7183	7184
35.0	7020	7015	7009	7008	7014	7012	7013	7012	7011	7012
37.5	6825	6819	6812	6813	6819	6818	6813	6815	6810	6815
40.0	6599	6602	6596	6599	6604	6603	6592	6596	6594	6600
42.5	6367	6363	6363	6368	6371	6364	6352	6352	6354	6367
45.0	6115	6105	6111	6116	6118	6106	6100	6101	6101	6116
47.5	5845	5834	5827	5846	5832	5834	5826	5830	5821	5832
50.0	5552	5542	5535	5540	5536	5537	5533	5538	5529	5538
52.5	5234	5225	5221	5208	5204	5210	5211	5223	5215	5212
55.0	4892	4886	4873	4855	4848	4855	4864	4873	4877	4864
57.5	4511	4515	4493	4491	4489	4489	4497	4510	4501	4500
60.0	4098	4108	4107	4106	4099	4096	4107	4117	4106	4103
62.5	3664	3685	3697	3686	3683	3677	3671	3675	3696	3681
65.0	2936	2964	3112	3242	3240	3210	3216	3220	3060	2961
67.5	2378	2373	2406	2524	2735	2743	2713	2485	2414	2394
70.0	1826	1826	1840	1930	2044	2238	2043	1936	1860	1838
72.5	1227	1233	1310	1422	1482	1482	1495	1422	1344	1281
75.0	897	891	900	893	908	888	956	937	911	887
77.5	583	588	577	555	478	431	493	611	596	604
80.0	384	397	384	317	216	191	231	340	398	407
82.5	221	224	214	150	117	108	114	156	224	235
85.0	102	102	90	69	67	66	66	70	92	110
87.5	35	35	35	35	34	34	34	36	36	39
90.0	0	0	0	0	0	0	0	0	0	0

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

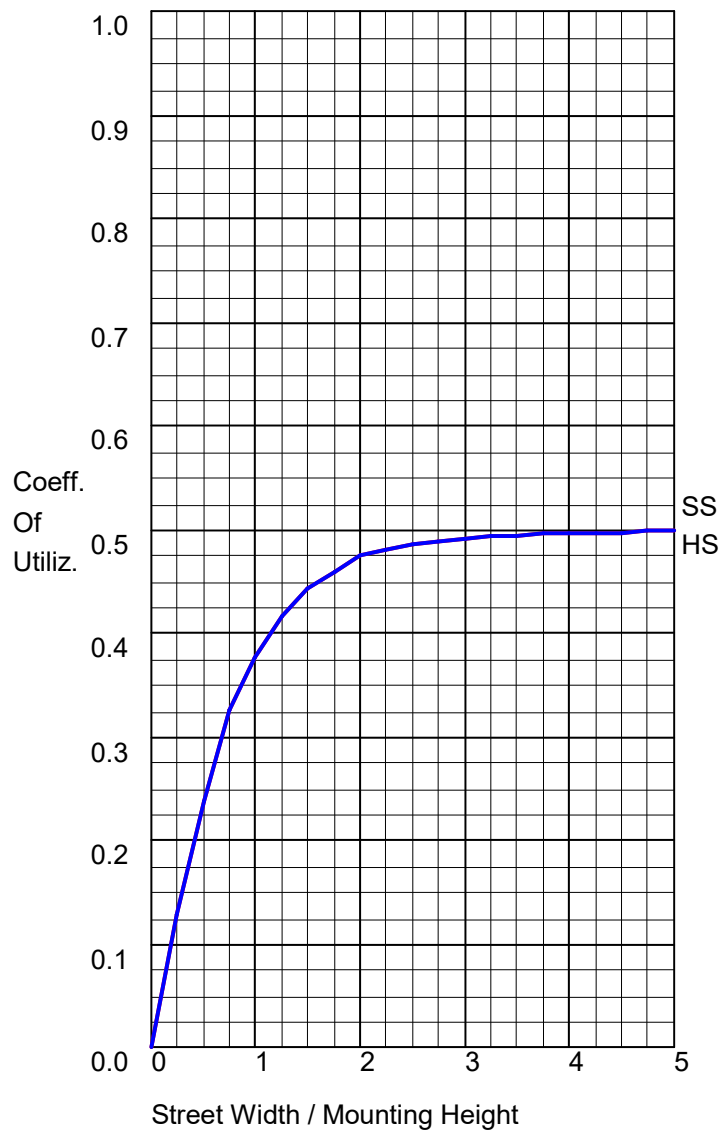
	<u>90</u>
0.0	7920
2.5	7945
5.0	7946
7.5	7938
10.0	7920
12.5	7895
15.0	7858
17.5	7809
20.0	7746
22.5	7672
25.0	7578
27.5	7468

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CANDELA TABULATION - (Cont.)

30.0	7337
32.5	7185
35.0	7013
37.5	6819
40.0	6604
42.5	6371
45.0	6122
47.5	5837
50.0	5529
52.5	5209
55.0	4869
57.5	4504
60.0	4109
62.5	3680
65.0	2949
67.5	2380
70.0	1834
72.5	1251
75.0	880
77.5	596
80.0	401
82.5	233
85.0	112
87.5	39
90.0	0

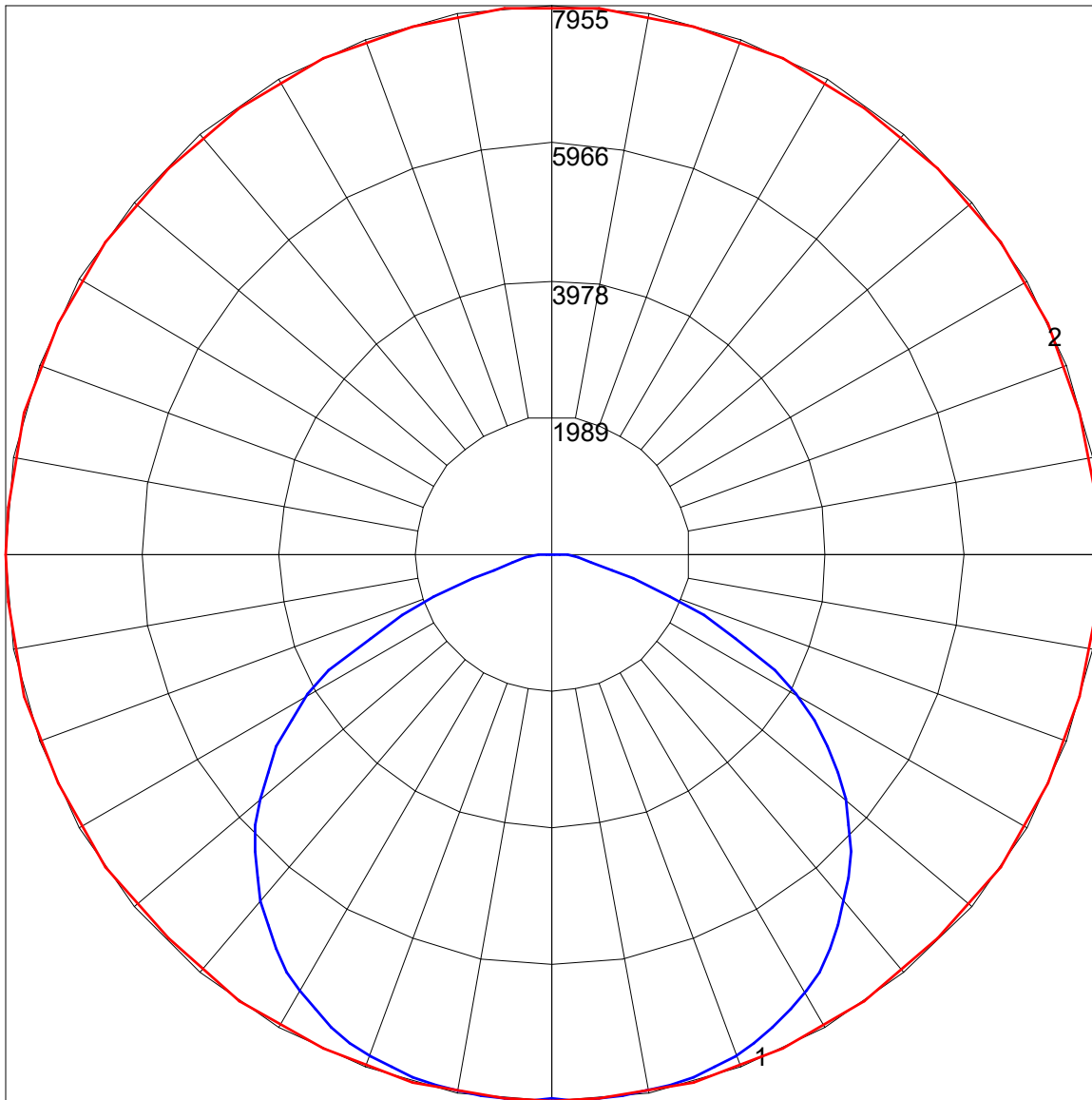
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

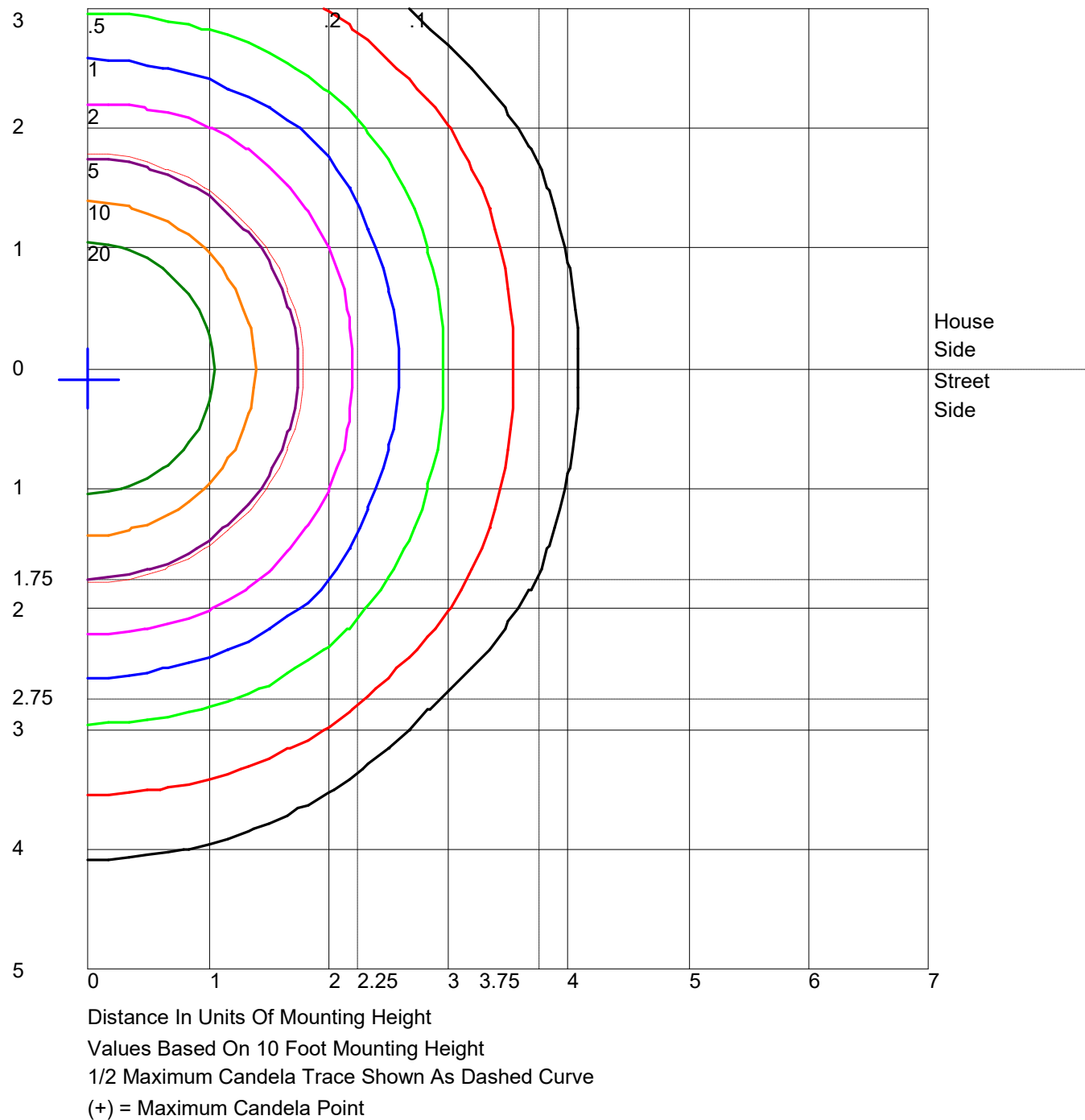
	Lumens	Percent Of Luminaire
Downward Street Side	12062.7	50.0
Downward House Side	12062.7	50.0
Downward Total	24125.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	24125.4	100.0

POLAR GRAPH

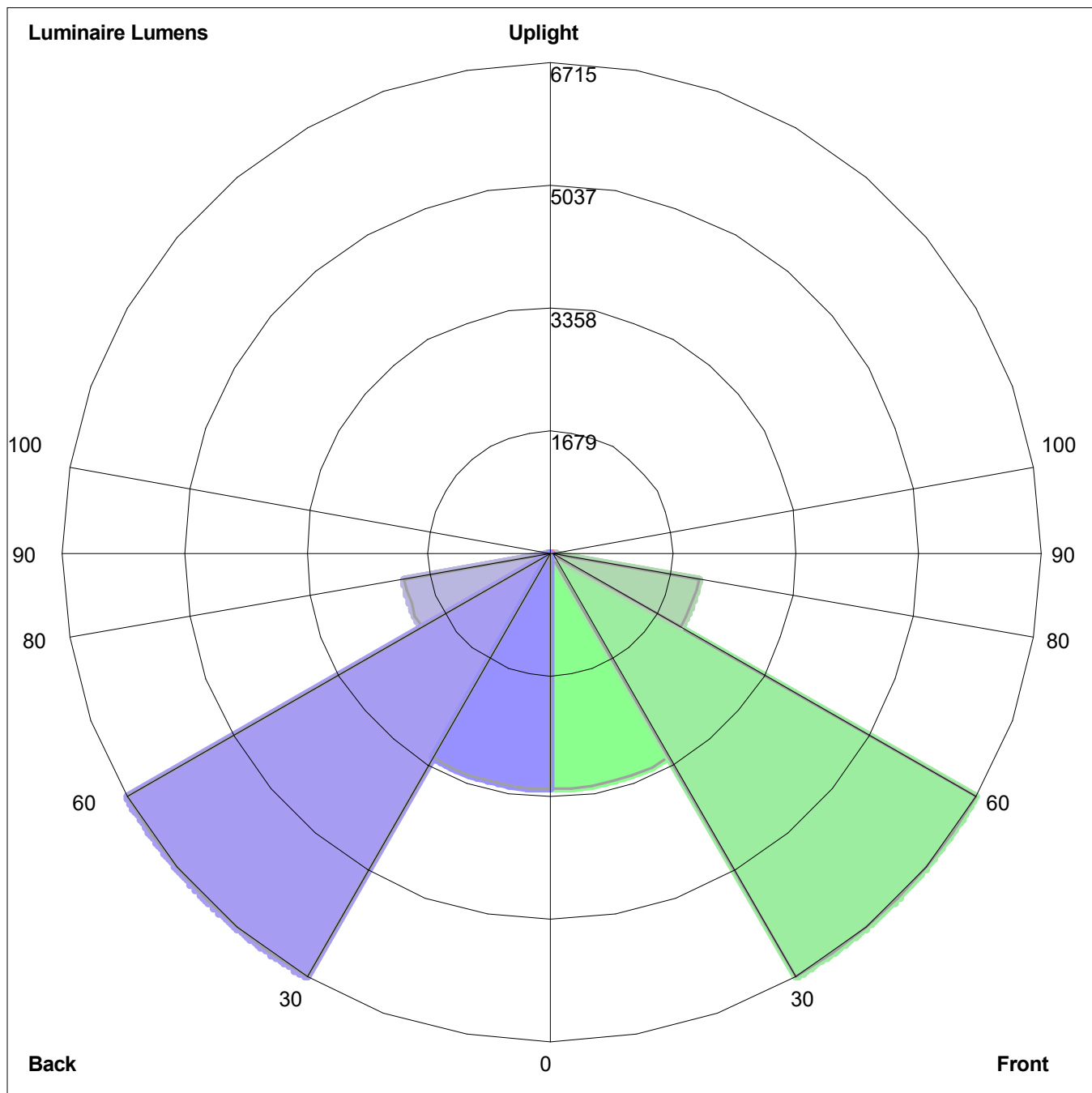


Maximum Candela = 7955 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3235.2, Medium=6715.5, High=2051.2, Very High=60.9
Back: Low=3235.2, Medium=6715.5, High=2051.2, Very High=60.9
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2