



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-20L-FT-50K8.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12230
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 10/22/2021
[TEST DATE] 09/24/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] HPG-20L-FT-50K8
[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] 5000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21290
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	169
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10151
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	10151
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	1285 (6.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1959.6	N.A.	9.2
FM - Front-Medium (30-60)	6466.1	N.A.	30.4
FH - Front-High (60-80)	4476.7	N.A.	21.0
FVH - Front-Very High (80-90)	136.5	N.A.	0.6
BL - Back-Low (0-30)	2052.0	N.A.	9.6
BM - Back-Medium (30-60)	4581.8	N.A.	21.5
BH - Back-High (60-80)	1532.0	N.A.	7.2
BVH - Back-Very High (80-90)	85.5	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	21290.2	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4827	4827	4827	4827	4827	4827	4827	4827	4827	4827
2.5	4782	4796	4787	4792	4817	4854	4837	4840	4842	4852
5.0	4756	4777	4766	4772	4791	4833	4820	4832	4836	4849
7.5	4699	4716	4707	4723	4753	4796	4784	4794	4810	4832
10.0	4631	4650	4646	4657	4701	4754	4746	4768	4786	4821
12.5	4566	4587	4585	4605	4652	4712	4706	4738	4763	4801
15.0	4516	4535	4530	4558	4603	4671	4664	4704	4735	4787
17.5	4467	4492	4485	4509	4568	4632	4634	4677	4711	4768
20.0	4437	4467	4464	4491	4546	4612	4609	4655	4698	4752
22.5	4426	4452	4456	4490	4551	4610	4608	4648	4684	4739
25.0	4426	4446	4468	4506	4572	4628	4629	4664	4699	4740
27.5	4451	4470	4495	4537	4600	4661	4655	4688	4712	4752
30.0	4471	4499	4533	4576	4644	4692	4683	4706	4728	4773
32.5	4495	4518	4559	4620	4698	4746	4739	4745	4766	4809
35.0	4515	4535	4587	4671	4760	4812	4803	4806	4801	4821
37.5	4566	4584	4634	4742	4836	4893	4881	4864	4841	4816
40.0	4694	4711	4742	4849	4933	4993	4974	4947	4882	4819
42.5	4855	4864	4911	5009	5096	5135	5119	5076	4955	4869
45.0	5070	5082	5122	5217	5298	5341	5337	5268	5072	4943
47.5	5427	5437	5483	5549	5576	5630	5638	5538	5191	5039
50.0	5923	5950	5938	5993	5998	6030	6021	5821	5358	5164
52.5	6523	6560	6522	6572	6548	6571	6541	6207	5608	5316
55.0	7088	7130	7130	7234	7283	7287	7251	6764	5938	5457
57.5	7602	7610	7702	7863	8141	8123	8084	7507	6258	5603
60.0	7607	7680	7918	8261	8889	9074	9046	8165	6598	5765
62.5	7043	7180	7580	8161	9363	9930	9864	8724	6755	5630
65.0	6032	6115	6586	7383	9095	10151	10099	8846	6502	5080
67.5	4594	4649	5037	5868	7776	9276	9365	8407	5773	4108
70.0	3052	3129	3385	4129	5798	7527	7731	7150	4645	2961
72.5	1900	1880	2093	2590	3767	5360	5648	5511	3101	1787
75.0	1134	1159	1275	1622	2405	3384	3566	3479	1996	1093
77.5	743	758	848	1128	1474	2078	2185	2029	1213	583
80.0	504	515	542	774	1026	1233	1285	1051	546	294
82.5	315	312	353	544	642	541	499	349	245	208
85.0	177	180	200	391	367	158	138	106	109	134
87.5	81	84	98	176	169	56	54	49	49	55
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	4827	4827	4827	4827	4827	4827	4827	4827	4827	4827
2.5	4880	4894	4890	4862	4849	4850	4867	4825	4809	4807
5.0	4886	4897	4897	4875	4863	4859	4876	4847	4830	4828
7.5	4882	4899	4898	4880	4871	4875	4893	4850	4830	4819
10.0	4869	4893	4897	4882	4882	4876	4879	4850	4837	4840
12.5	4864	4883	4893	4882	4876	4868	4884	4873	4872	4879
15.0	4855	4879	4890	4878	4865	4873	4904	4895	4898	4911
17.5	4846	4875	4886	4874	4846	4866	4917	4914	4914	4929
20.0	4839	4873	4882	4857	4822	4866	4920	4922	4927	4943
22.5	4831	4867	4875	4831	4808	4862	4918	4925	4932	4957
25.0	4820	4848	4854	4785	4778	4851	4911	4916	4928	4955
27.5	4815	4830	4824	4728	4727	4812	4878	4898	4916	4937

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CANDELA TABULATION - (Cont.)

30.0	4819	4823	4802	4666	4669	4756	4827	4855	4881	4904
32.5	4819	4808	4766	4597	4593	4682	4758	4788	4820	4854
35.0	4803	4771	4714	4510	4503	4601	4676	4706	4742	4778
37.5	4763	4719	4649	4402	4397	4494	4569	4587	4622	4669
40.0	4733	4666	4568	4294	4270	4354	4418	4435	4474	4531
42.5	4734	4639	4516	4179	4122	4191	4234	4263	4317	4418
45.0	4772	4641	4488	4068	3942	3999	4033	4056	4119	4367
47.5	4830	4668	4475	3954	3737	3778	3803	3826	3937	4350
50.0	4925	4722	4478	3839	3515	3536	3569	3619	3868	4067
52.5	5030	4784	4483	3717	3272	3270	3348	3503	3628	3685
55.0	5093	4795	4430	3552	3008	3024	3127	3141	3293	3349
57.5	5209	4872	4427	3362	2683	2751	2797	2884	2928	2988
60.0	5331	4972	4467	3280	2401	2419	2514	2601	2573	2602
62.5	5098	4684	4148	3042	2192	2080	2194	2309	2256	2240
65.0	4514	3988	3385	2513	1808	1806	1875	2046	1983	1984
67.5	3579	3156	2656	2075	1380	1490	1686	1885	1731	1745
70.0	2546	2235	1888	1756	1157	1146	1362	1376	1440	1512
72.5	1382	1236	1079	1264	983	943	973	1127	1168	1269
75.0	728	655	649	784	651	669	716	841	883	1038
77.5	376	354	393	470	443	405	458	561	612	786
80.0	222	213	240	286	267	269	316	339	382	513
82.5	175	165	165	194	188	186	196	215	225	298
85.0	112	106	108	117	119	119	123	127	144	154
87.5	57	54	58	62	66	65	63	70	62	73
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

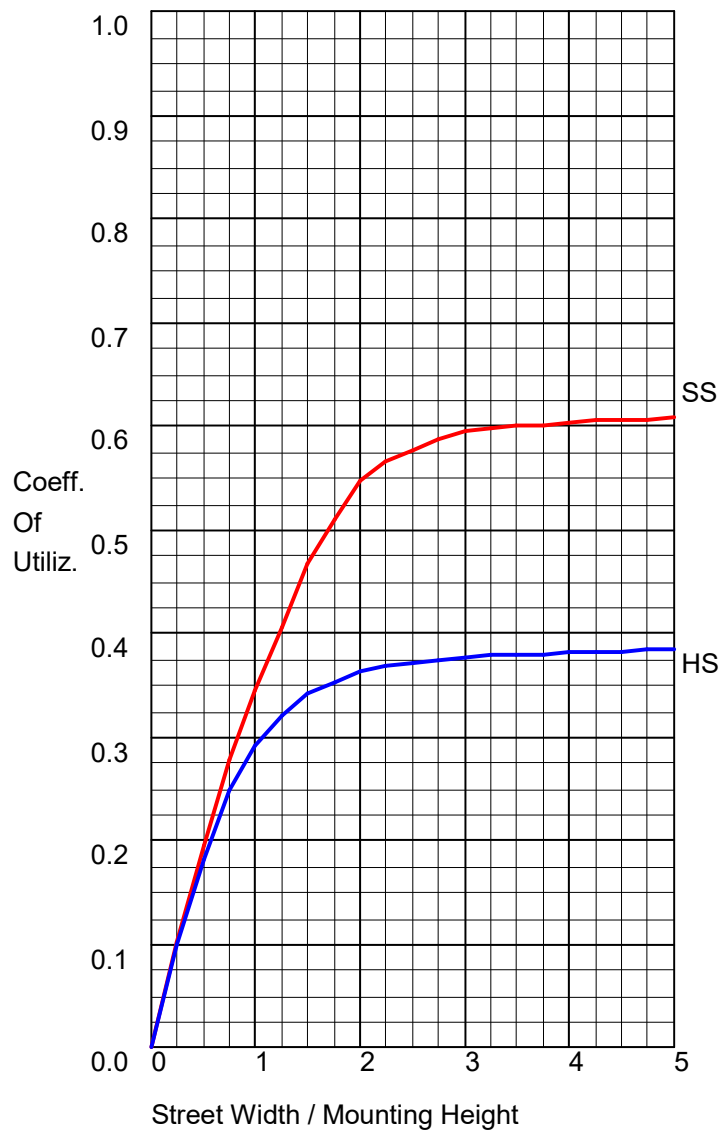
	<u>175.0</u>	<u>180.0</u>
0.0	4827	4827
2.5	4805	4785
5.0	4832	4812
7.5	4823	4806
10.0	4847	4826
12.5	4890	4871
15.0	4922	4901
17.5	4946	4924
20.0	4965	4952
22.5	4981	4965
25.0	4983	4965
27.5	4968	4957
30.0	4934	4928
32.5	4882	4867
35.0	4810	4791
37.5	4703	4691
40.0	4601	4595
42.5	4594	4616
45.0	4747	4795
47.5	4616	4626
50.0	4129	4126
52.5	3720	3721
55.0	3385	3395
57.5	3011	2997
60.0	2593	2596
62.5	2279	2293
65.0	2045	2059

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CANDELA TABULATION - (Cont.)

67.5	1838	1855
70.0	1616	1622
72.5	1379	1387
75.0	1171	1193
77.5	935	947
80.0	682	717
82.5	451	473
85.0	244	251
87.5	110	115
90.0	0	0

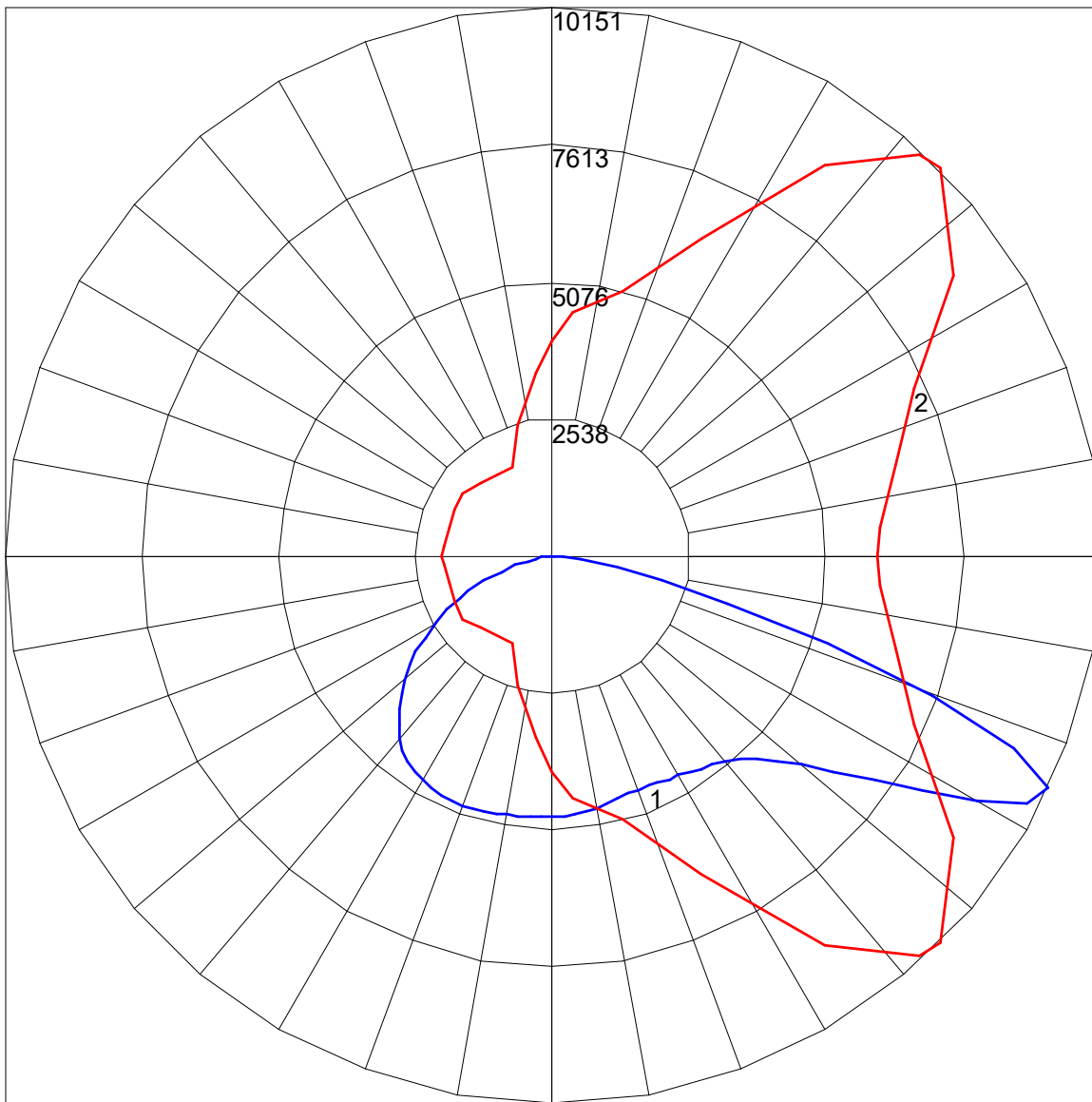
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

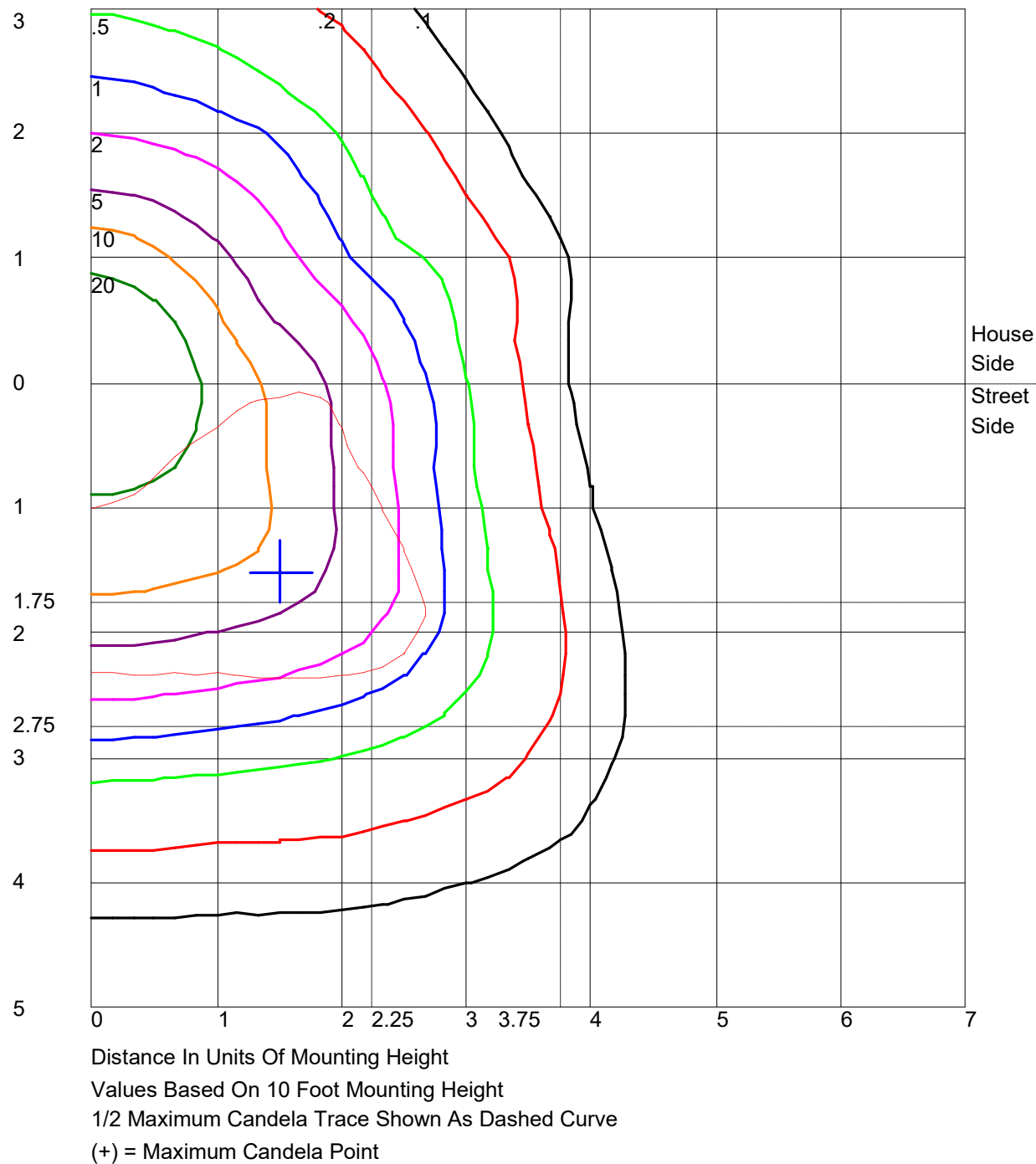
	Lumens	Percent Of Luminaire
Downward Street Side	13038.9	61.2
Downward House Side	8251.3	38.8
Downward Total	21290.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21290.2	100.0

POLAR GRAPH

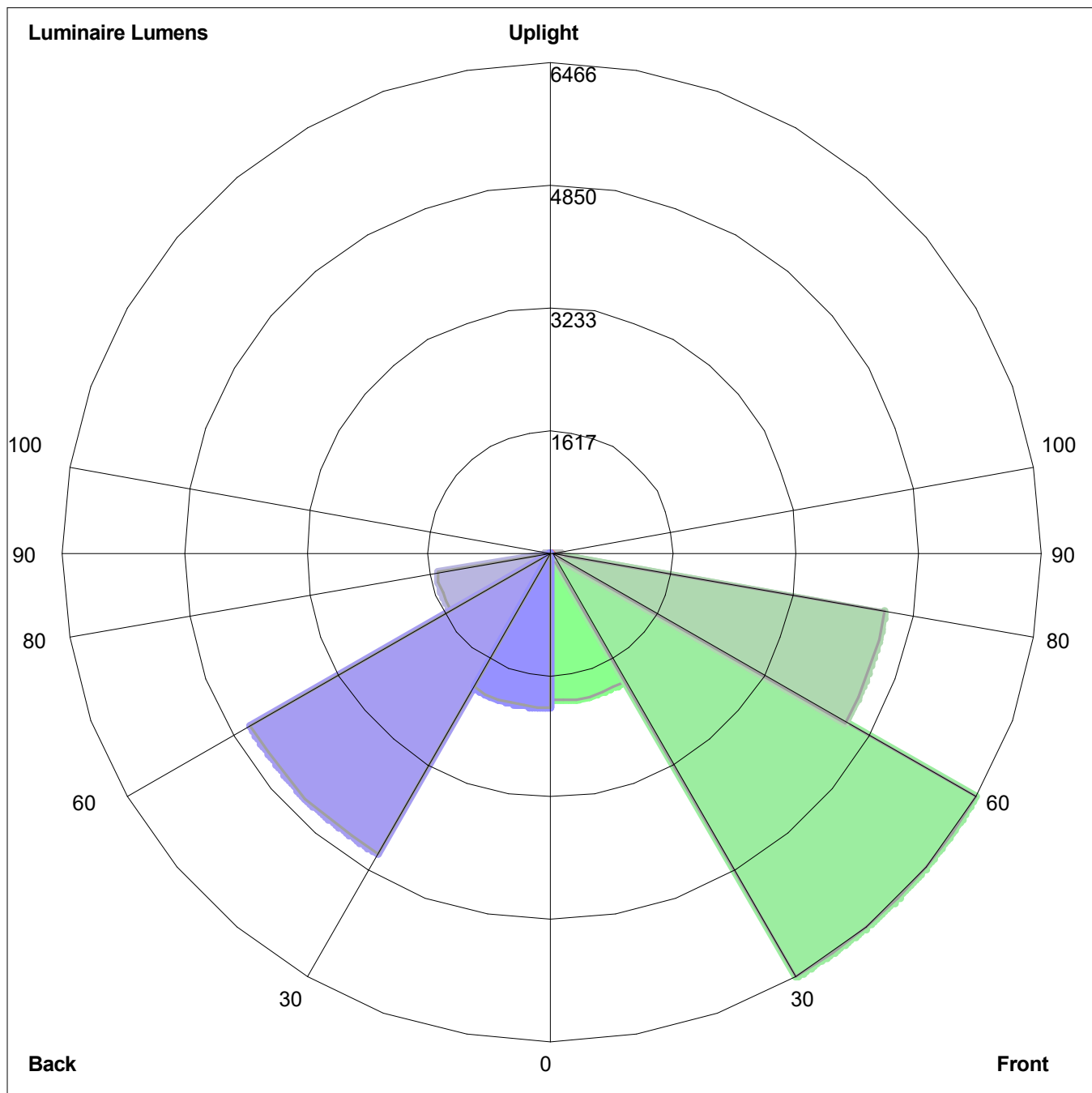


Maximum Candela = 10151 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1959.6, Medium=6466.1, High=4476.7, Very High=136.5
Back: Low= 2052.0, Medium=4581.8, High= 1532.0, Very High=85.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3