



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-20L-5R-30K8.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12912
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 10/22/2021
[TESTDATE] 08/25/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] HPG-20L-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	20519
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	169
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5888
Maximum Candela Angle	45H 62.5V
Maximum Candela (<90 Degrees Vertical)	5888
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	1028 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



HPG

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1929.5	N.A.	9.4
FM - Front-Medium (30-60)	5461.3	N.A.	26.6
FH - Front-High (60-80)	2757.7	N.A.	13.4
FVH - Front-Very High (80-90)	110.8	N.A.	0.5
BL - Back-Low (0-30)	1929.5	N.A.	9.4
BM - Back-Medium (30-60)	5461.3	N.A.	26.6
BH - Back-High (60-80)	2757.7	N.A.	13.4
BVH - Back-Very High (80-90)	110.8	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	20518.6	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	4629	4629	4629	4629	4629	4629	4629	4629	4629	4629
2.5	4609	4609	4612	4605	4629	4641	4645	4656	4675	4676
5.0	4595	4599	4599	4594	4621	4635	4649	4662	4681	4679
7.5	4569	4574	4579	4579	4614	4627	4638	4654	4684	4683
10.0	4535	4541	4545	4543	4575	4600	4625	4641	4678	4676
12.5	4519	4525	4526	4527	4560	4575	4597	4630	4670	4670
15.0	4508	4508	4509	4512	4543	4566	4574	4614	4659	4667
17.5	4512	4507	4505	4501	4532	4551	4561	4582	4649	4670
20.0	4512	4514	4514	4509	4527	4540	4550	4560	4638	4677
22.5	4528	4534	4530	4522	4545	4544	4542	4553	4627	4685
25.0	4552	4562	4561	4549	4569	4562	4549	4555	4617	4686
27.5	4577	4585	4594	4586	4599	4586	4563	4555	4604	4686
30.0	4602	4605	4622	4617	4629	4604	4572	4557	4602	4701
32.5	4600	4611	4643	4648	4653	4623	4590	4573	4607	4715
35.0	4596	4605	4646	4668	4677	4648	4612	4582	4602	4721
37.5	4594	4604	4643	4671	4693	4668	4624	4572	4580	4714
40.0	4581	4594	4623	4666	4697	4674	4629	4543	4546	4697
42.5	4649	4639	4627	4666	4695	4676	4629	4526	4507	4669
45.0	4910	4883	4713	4687	4704	4675	4643	4507	4477	4649
47.5	4947	4953	4971	4752	4740	4695	4654	4477	4464	4670
50.0	4973	4966	4978	4932	4819	4741	4680	4465	4487	4724
52.5	5029	5035	5057	5131	4947	4865	4738	4469	4480	4731
55.0	5079	5092	5165	5207	5033	5021	4861	4431	4453	4748
57.5	5029	5064	5245	5319	5274	5248	4954	4389	4488	4863
60.0	4782	4819	5103	5263	5522	5593	4995	4331	4400	4770
62.5	4294	4339	4576	4874	5542	5888	5009	4136	4010	4265
65.0	3600	3652	3841	4254	5109	5704	4901	3770	3475	3566
67.5	2750	2776	2967	3407	4198	4966	4514	3155	2810	2697
70.0	1993	2013	2132	2523	3156	3959	3745	2362	2089	1765
72.5	1366	1389	1466	1769	2362	3006	2698	1581	1259	943
75.0	981	1004	1032	1227	1726	2368	1827	1143	846	602
77.5	700	722	720	829	1292	1787	1351	737	437	325
80.0	489	479	466	542	961	1028	773	369	291	240
82.5	267	269	261	386	530	467	286	206	200	167
85.0	129	129	140	224	342	167	103	113	129	109
87.5	64	64	81	78	110	43	36	38	44	51
90.0	0	0	0	0	0	0	0	0	0	0

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

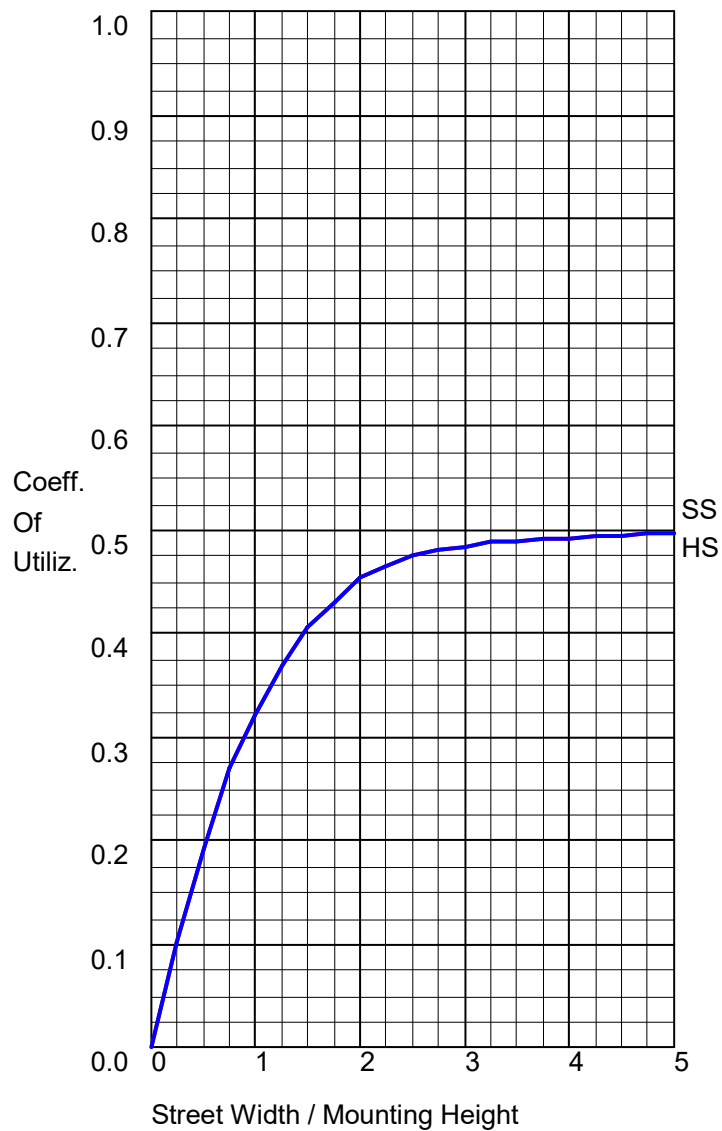
	<u>90</u>
0.0	4629
2.5	4673
5.0	4678
7.5	4680
10.0	4672
12.5	4670
15.0	4665
17.5	4665
20.0	4677
22.5	4681
25.0	4690
27.5	4698

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CANDELA TABULATION - (Cont.)

30.0	4712
32.5	4731
35.0	4736
37.5	4734
40.0	4721
42.5	4697
45.0	4676
47.5	4709
50.0	4769
52.5	4768
55.0	4785
57.5	4909
60.0	4872
62.5	4414
65.0	3667
67.5	2717
70.0	1715
72.5	814
75.0	522
77.5	298
80.0	227
82.5	152
85.0	99
87.5	44
90.0	0

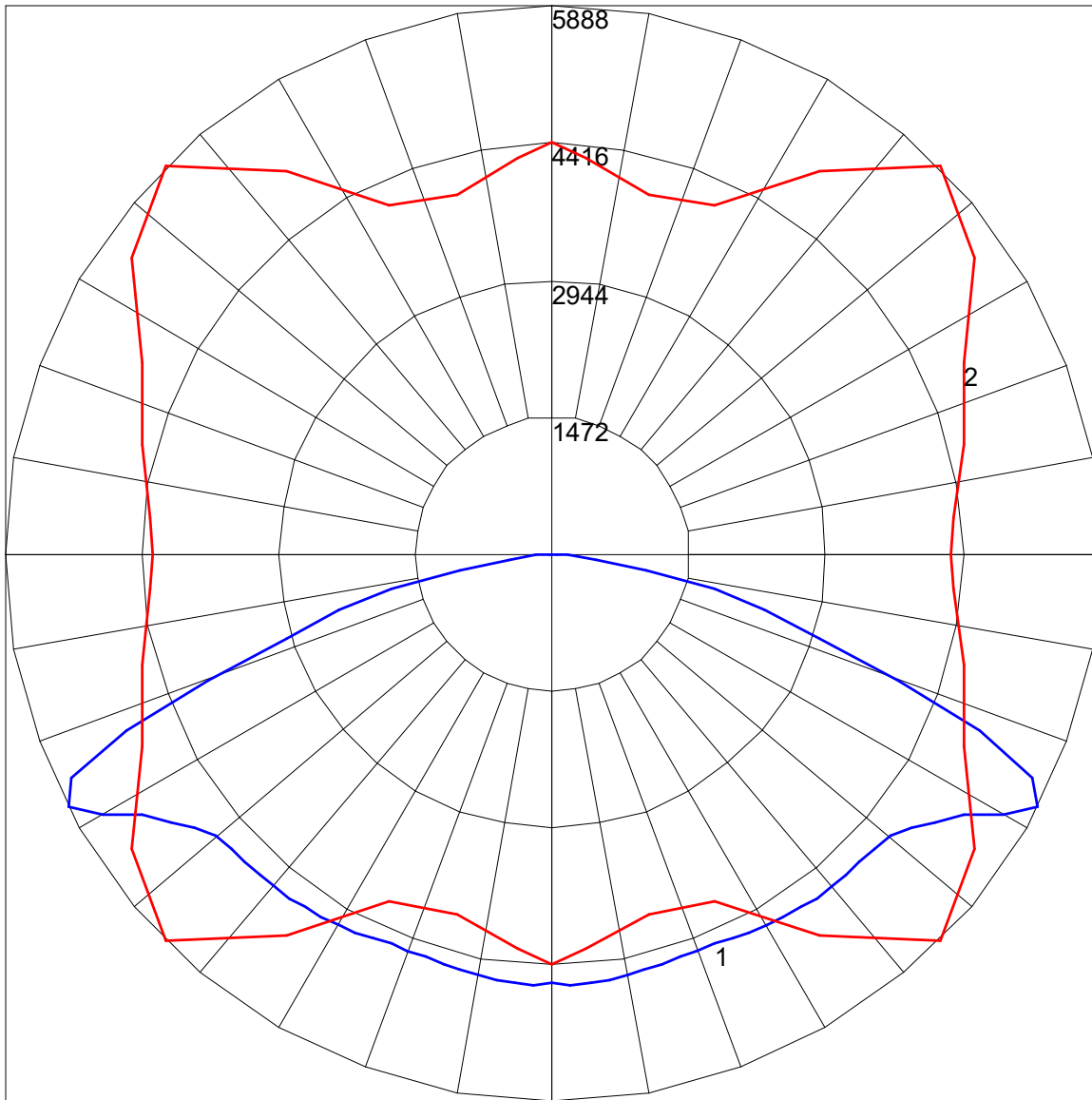
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

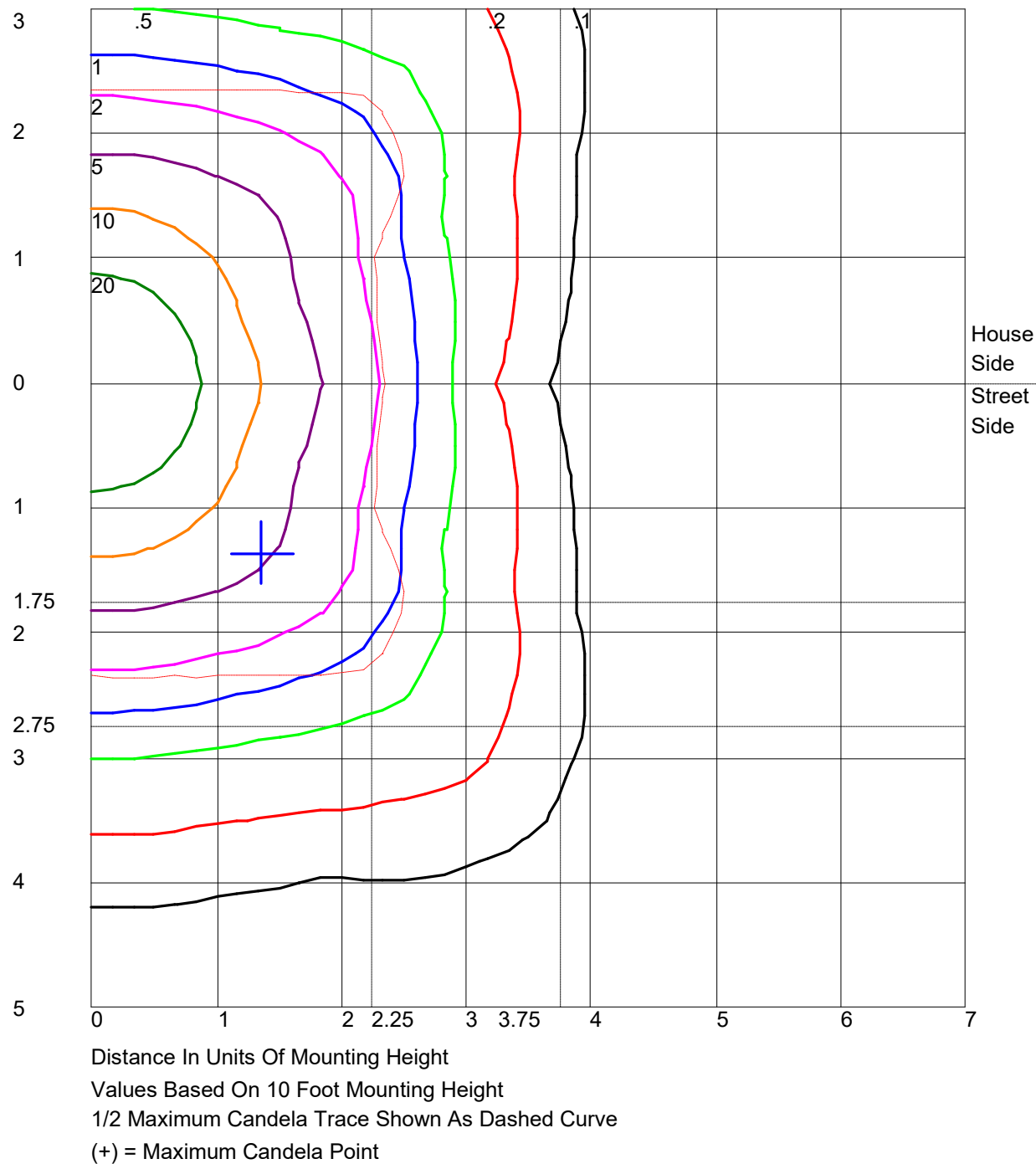
	Lumens	Percent Of Luminaire
Downward Street Side	10259.3	50.0
Downward House Side	10259.3	50.0
Downward Total	20518.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20518.8	100.0

POLAR GRAPH

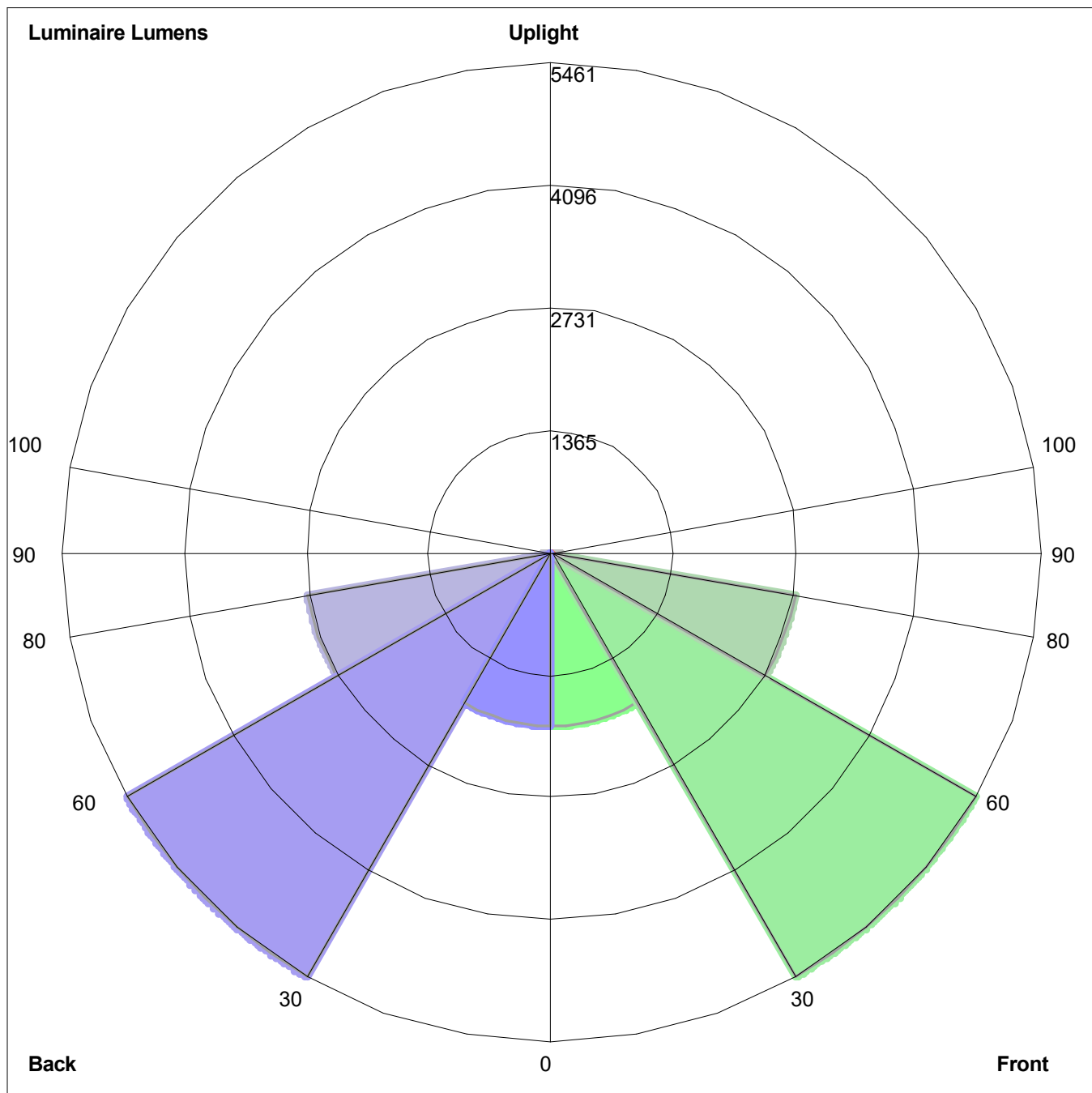


Maximum Candela = 5888 Located At Horizontal Angle = 45, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1929.5, Medium=5461.3, High=2757.7, Very High=110.8
Back: Low=1929.5, Medium=5461.3, High=2757.7, Very High=110.8
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2