



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-13L-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-13L-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	14301
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	106
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4716
Maximum Candela Angle	0H 5V
Maximum Candela (<90 Degrees Vertical)	4716
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	241 (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)	1917.8	N.A.	13.4
FM - Front-Medium (30-60)	3980.9	N.A.	27.8
FH - Front-High (60-80)	1216.0	N.A.	8.5
FVH - Front-Very High (80-90)	36.1	N.A.	0.3
BL - Back-Low (0-30)	1917.8	N.A.	13.4
BM - Back-Medium (30-60)	3980.9	N.A.	27.8
BH - Back-High (60-80)	1216.0	N.A.	8.5
BVH - Back-Very High (80-90)	36.1	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	14301.6	N.A.	100.0
BUG Rating	B3-U0-G1		

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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	4695	4695	4695	4695	4695	4695	4695	4695	4695	4695
2.5	4715	4711	4708	4703	4701	4697	4699	4700	4706	4707
5.0	4716	4712	4709	4704	4703	4698	4700	4701	4708	4708
7.5	4709	4708	4704	4699	4698	4693	4694	4695	4703	4703
10.0	4698	4696	4693	4687	4686	4682	4683	4685	4691	4691
12.5	4683	4680	4677	4672	4669	4666	4667	4668	4675	4676
15.0	4661	4658	4656	4651	4649	4645	4645	4647	4653	4655
17.5	4634	4631	4627	4624	4621	4618	4618	4620	4626	4627
20.0	4599	4596	4592	4588	4587	4585	4584	4585	4590	4592
22.5	4554	4551	4549	4542	4542	4541	4541	4540	4546	4548
25.0	4500	4497	4493	4486	4489	4487	4488	4486	4492	4492
27.5	4435	4432	4426	4421	4423	4424	4424	4421	4426	4425
30.0	4358	4352	4348	4344	4347	4348	4349	4345	4347	4348
32.5	4267	4263	4257	4254	4259	4257	4261	4257	4258	4259
35.0	4161	4158	4155	4154	4158	4157	4157	4157	4156	4157
37.5	4046	4042	4038	4039	4042	4042	4039	4040	4037	4040
40.0	3912	3914	3910	3912	3915	3914	3908	3910	3909	3912
42.5	3774	3772	3772	3775	3777	3773	3765	3765	3767	3774
45.0	3625	3619	3623	3625	3627	3620	3616	3617	3617	3625
47.5	3465	3458	3454	3465	3457	3458	3454	3456	3451	3457
50.0	3291	3285	3281	3284	3282	3282	3280	3283	3278	3283
52.5	3103	3097	3095	3087	3085	3088	3089	3096	3091	3090
55.0	2900	2896	2889	2878	2874	2878	2883	2889	2891	2883
57.5	2674	2676	2663	2662	2661	2661	2666	2673	2668	2668
60.0	2429	2435	2435	2434	2430	2428	2435	2441	2434	2432
62.5	2172	2184	2192	2185	2183	2180	2176	2178	2191	2182
65.0	1740	1757	1845	1922	1921	1903	1906	1909	1814	1755
67.5	1410	1407	1426	1496	1621	1626	1608	1473	1431	1419
70.0	1082	1082	1091	1144	1212	1327	1211	1148	1103	1090
72.5	727	731	777	843	879	879	886	843	797	759
75.0	532	528	534	529	538	526	567	555	540	526
77.5	346	349	342	329	283	255	292	362	353	358
80.0	228	235	228	188	128	113	137	202	236	241
82.5	131	133	127	89	69	64	68	92	133	139
85.0	60	60	53	41	40	39	39	41	55	65
87.5	21	21	21	21	20	20	20	21	21	23
90.0	0	0	0	0	0	0	0	0	0	0

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

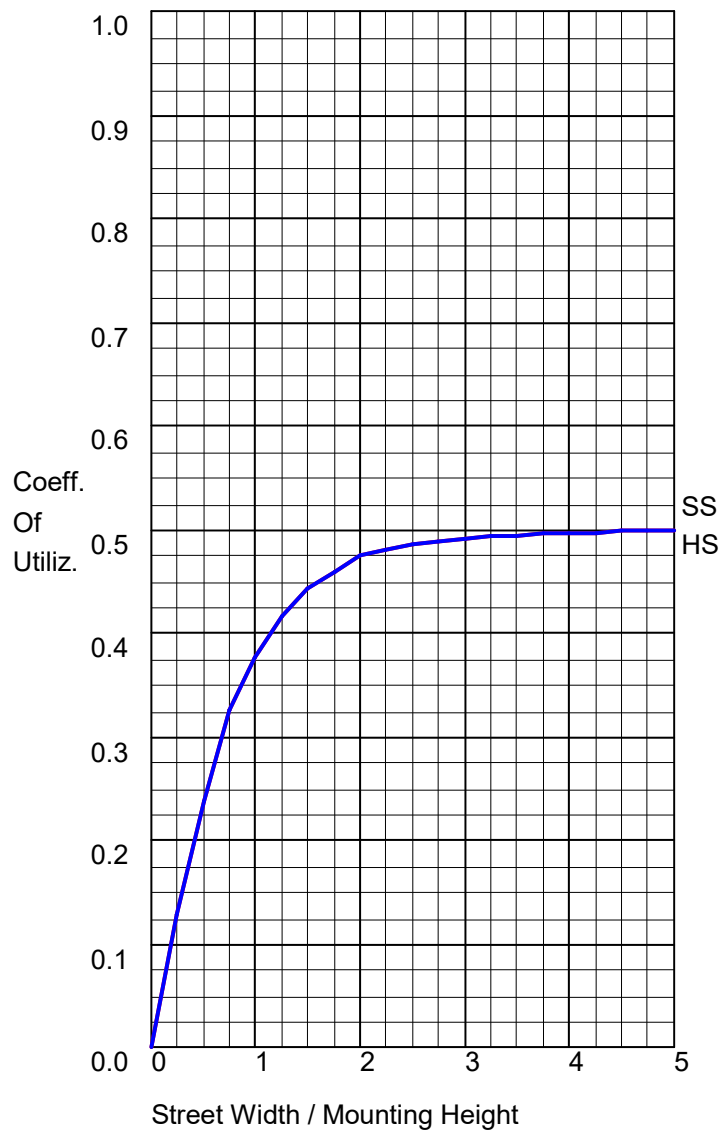
	<u>90</u>
0.0	4695
2.5	4710
5.0	4710
7.5	4706
10.0	4695
12.5	4680
15.0	4658
17.5	4629
20.0	4592
22.5	4548
25.0	4492
27.5	4427

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CANDELA TABULATION - (Cont.)

30.0	4349
32.5	4259
35.0	4157
37.5	4042
40.0	3915
42.5	3777
45.0	3629
47.5	3460
50.0	3278
52.5	3088
55.0	2886
57.5	2670
60.0	2436
62.5	2181
65.0	1748
67.5	1411
70.0	1087
72.5	742
75.0	522
77.5	353
80.0	238
82.5	138
85.0	66
87.5	23
90.0	0

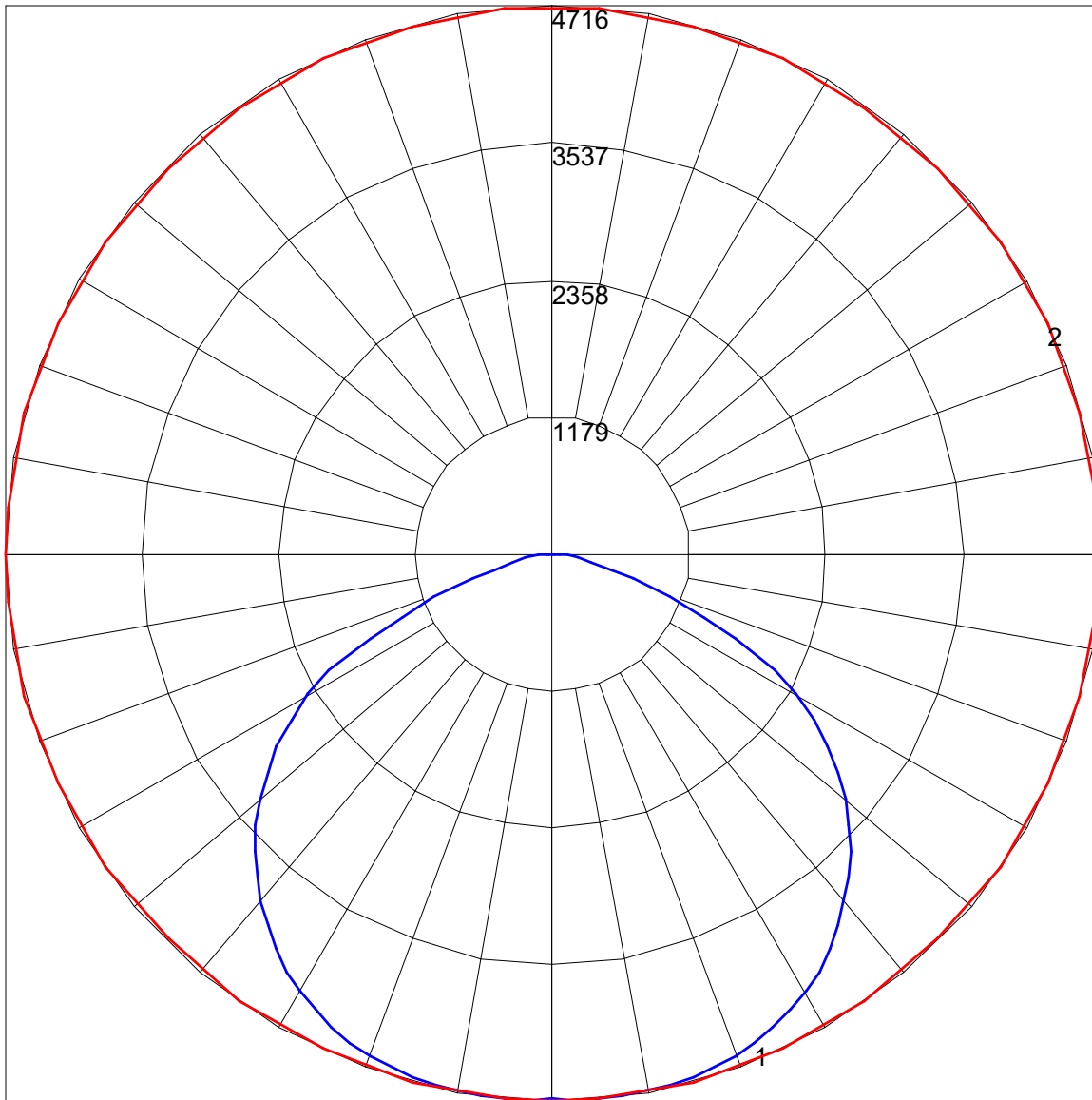
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

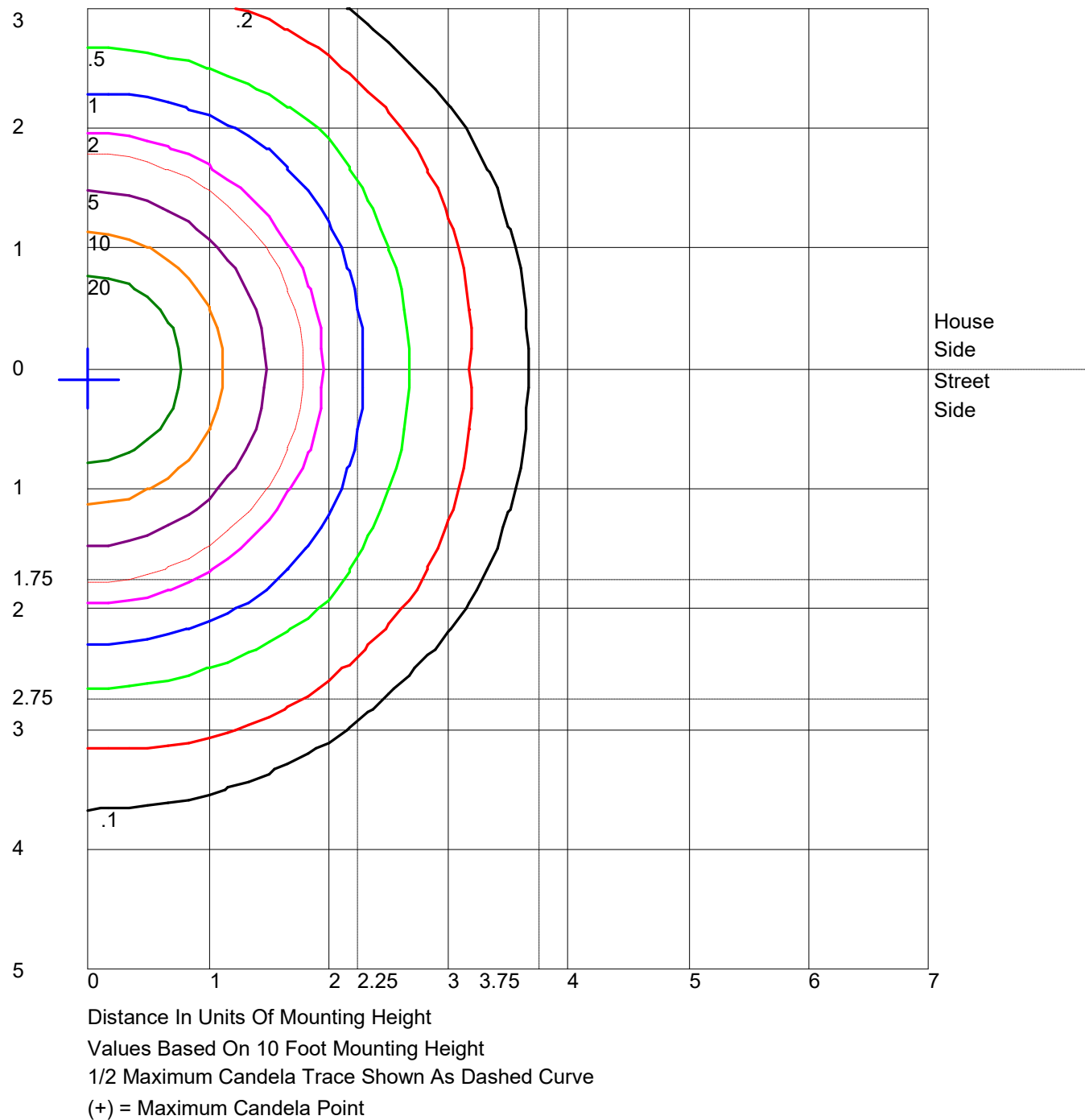
	Lumens	Percent Of Luminaire
Downward Street Side	7150.6	50.0
Downward House Side	7150.6	50.0
Downward Total	14301.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14301.2	100.0

POLAR GRAPH

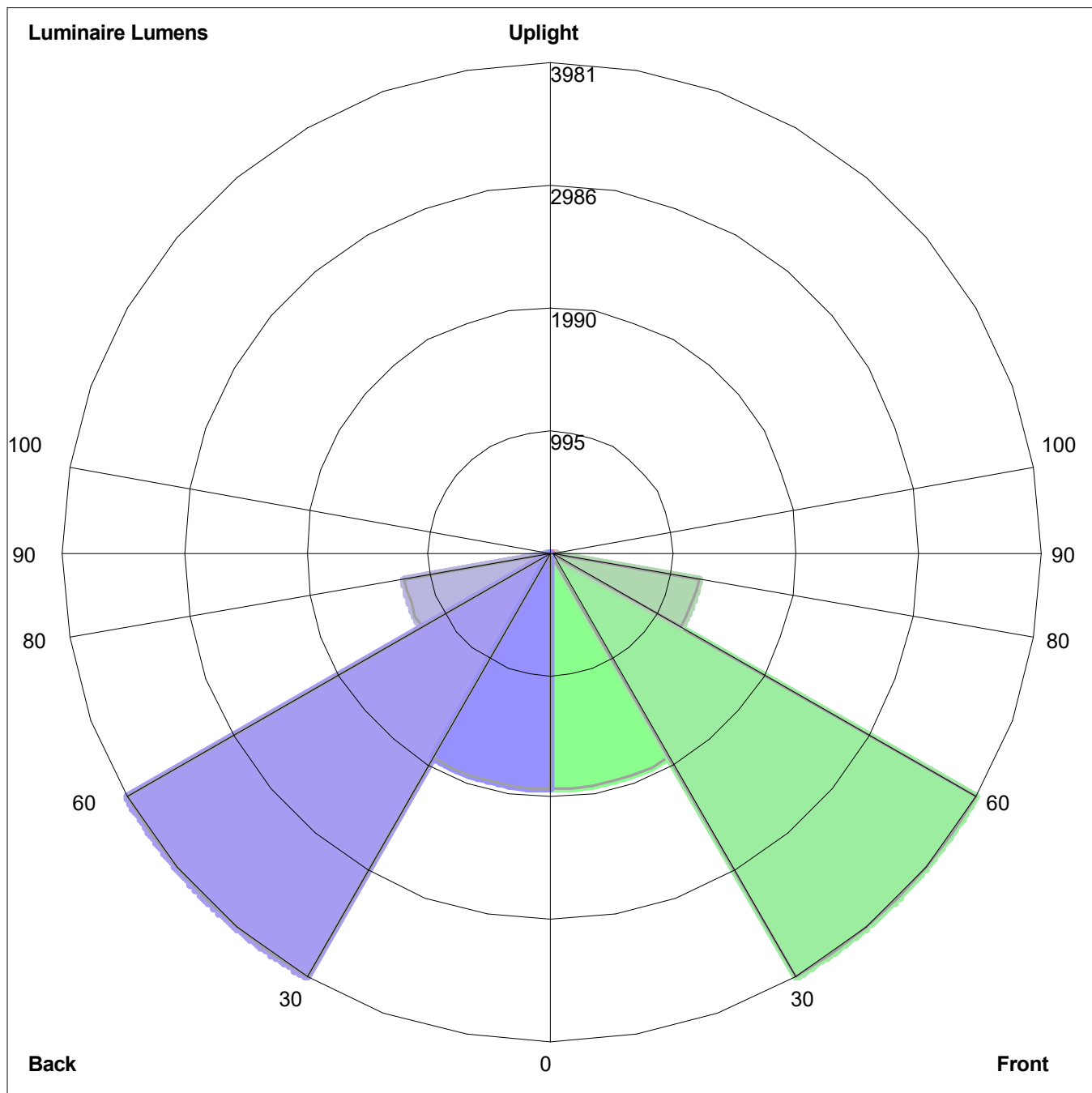


Maximum Candela = 4716 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1917.8, Medium=3980.9, High= 1216.0, Very High=36.1
Back: Low=1917.8, Medium=3980.9, High= 1216.0, Very High=36.1
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1