



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-20L-5C-30K8.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-20L-5C-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	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20295
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	169
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6692
Maximum Candela Angle	0H 5V
Maximum Candela (<90 Degrees Vertical)	6692
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	342 (1.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HPG-20L-5C-30K8.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2721.5	N.A.	13.4
FM - Front-Medium (30-60)	5649.0	N.A.	27.8
FH - Front-High (60-80)	1725.5	N.A.	8.5
FVH - Front-Very High (80-90)	51.3	N.A.	0.3
BL - Back-Low (0-30)	2721.5	N.A.	13.4
BM - Back-Medium (30-60)	5649.0	N.A.	27.8
BH - Back-High (60-80)	1725.5	N.A.	8.5
BVH - Back-Very High (80-90)	51.3	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	20294.6	N.A.	100.0
BUG Rating	B4-U0-G1		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HPG-20L-5C-30K8.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>15</b></u>	<u><b>25</b></u>	<u><b>35</b></u>	<u><b>45</b></u>	<u><b>55</b></u>	<u><b>65</b></u>	<u><b>75</b></u>	<u><b>85</b></u>
<b>0.0</b>	6662	6662	6662	6662	6662	6662	6662	6662	6662	6662
<b>2.5</b>	6691	6685	6681	6674	6672	6666	6669	6670	6678	6679
<b>5.0</b>	6692	6687	6682	6675	6673	6667	6670	6672	6681	6681
<b>7.5</b>	6682	6681	6675	6669	6667	6659	6661	6663	6673	6674
<b>10.0</b>	6668	6664	6659	6651	6649	6645	6646	6649	6657	6657
<b>12.5</b>	6646	6642	6637	6629	6626	6622	6623	6625	6635	6635
<b>15.0</b>	6615	6610	6607	6600	6597	6592	6592	6595	6603	6606
<b>17.5</b>	6576	6573	6566	6561	6558	6553	6553	6555	6564	6567
<b>20.0</b>	6527	6523	6517	6511	6509	6506	6505	6506	6513	6516
<b>22.5</b>	6463	6459	6455	6446	6446	6445	6444	6442	6452	6454
<b>25.0</b>	6386	6382	6377	6366	6370	6368	6369	6366	6374	6374
<b>27.5</b>	6294	6289	6281	6274	6277	6278	6278	6274	6282	6280
<b>30.0</b>	6185	6176	6169	6164	6168	6170	6171	6166	6168	6169
<b>32.5</b>	6056	6049	6041	6038	6044	6041	6046	6041	6042	6043
<b>35.0</b>	5905	5901	5896	5895	5900	5898	5899	5898	5897	5898
<b>37.5</b>	5742	5736	5730	5731	5736	5735	5731	5733	5728	5733
<b>40.0</b>	5551	5553	5549	5551	5555	5554	5546	5549	5547	5552
<b>42.5</b>	5356	5353	5353	5356	5359	5354	5343	5343	5345	5356
<b>45.0</b>	5144	5136	5140	5145	5146	5136	5132	5133	5133	5145
<b>47.5</b>	4917	4908	4902	4917	4906	4908	4901	4904	4896	4906
<b>50.0</b>	4671	4662	4656	4660	4657	4658	4654	4659	4651	4659
<b>52.5</b>	4403	4395	4392	4381	4378	4382	4383	4394	4387	4384
<b>55.0</b>	4115	4111	4099	4084	4078	4084	4091	4099	4103	4091
<b>57.5</b>	3794	3798	3779	3778	3776	3776	3783	3794	3786	3786
<b>60.0</b>	3448	3455	3454	3454	3448	3446	3454	3463	3454	3452
<b>62.5</b>	3083	3100	3110	3101	3098	3093	3088	3091	3110	3096
<b>65.0</b>	2470	2494	2618	2727	2725	2700	2705	2709	2574	2491
<b>67.5</b>	2000	1996	2024	2123	2301	2307	2282	2090	2031	2013
<b>70.0</b>	1536	1536	1548	1623	1720	1883	1719	1628	1565	1547
<b>72.5</b>	1032	1037	1102	1196	1247	1247	1257	1196	1131	1078
<b>75.0</b>	754	749	757	751	764	747	804	789	767	746
<b>77.5</b>	491	495	485	467	403	362	415	514	501	508
<b>80.0</b>	323	334	323	267	182	160	194	286	335	342
<b>82.5</b>	186	188	180	126	98	91	96	132	188	198
<b>85.0</b>	85	85	76	58	57	56	56	59	78	92
<b>87.5</b>	30	30	30	30	29	29	29	31	31	33
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

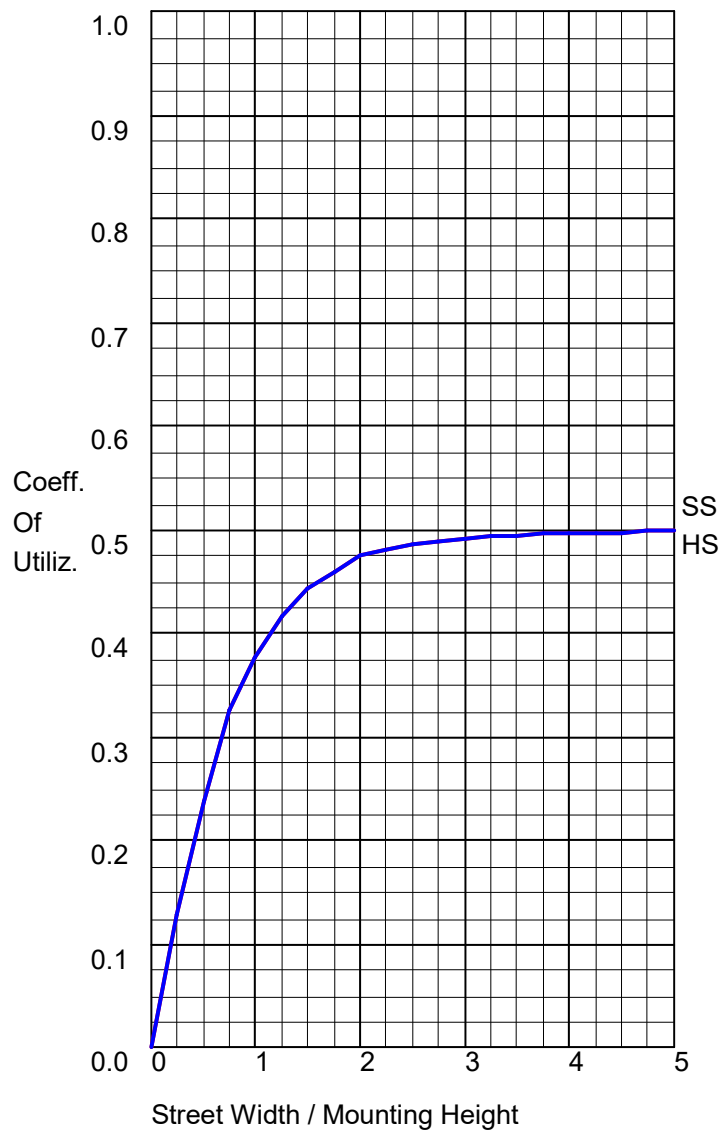
<b>Vert. Angles</b>	<b>Horizontal Angles</b>
	<u><b>90</b></u>
<b>0.0</b>	6662
<b>2.5</b>	6683
<b>5.0</b>	6684
<b>7.5</b>	6677
<b>10.0</b>	6662
<b>12.5</b>	6642
<b>15.0</b>	6610
<b>17.5</b>	6569
<b>20.0</b>	6516
<b>22.5</b>	6454
<b>25.0</b>	6375
<b>27.5</b>	6283

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : HPG-20L-5C-30K8.IES**

**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	6172
<b>32.5</b>	6044
<b>35.0</b>	5899
<b>37.5</b>	5736
<b>40.0</b>	5555
<b>42.5</b>	5359
<b>45.0</b>	5150
<b>47.5</b>	4910
<b>50.0</b>	4651
<b>52.5</b>	4381
<b>55.0</b>	4096
<b>57.5</b>	3789
<b>60.0</b>	3456
<b>62.5</b>	3096
<b>65.0</b>	2480
<b>67.5</b>	2002
<b>70.0</b>	1543
<b>72.5</b>	1052
<b>75.0</b>	741
<b>77.5</b>	501
<b>80.0</b>	337
<b>82.5</b>	196
<b>85.0</b>	94
<b>87.5</b>	33
<b>90.0</b>	0

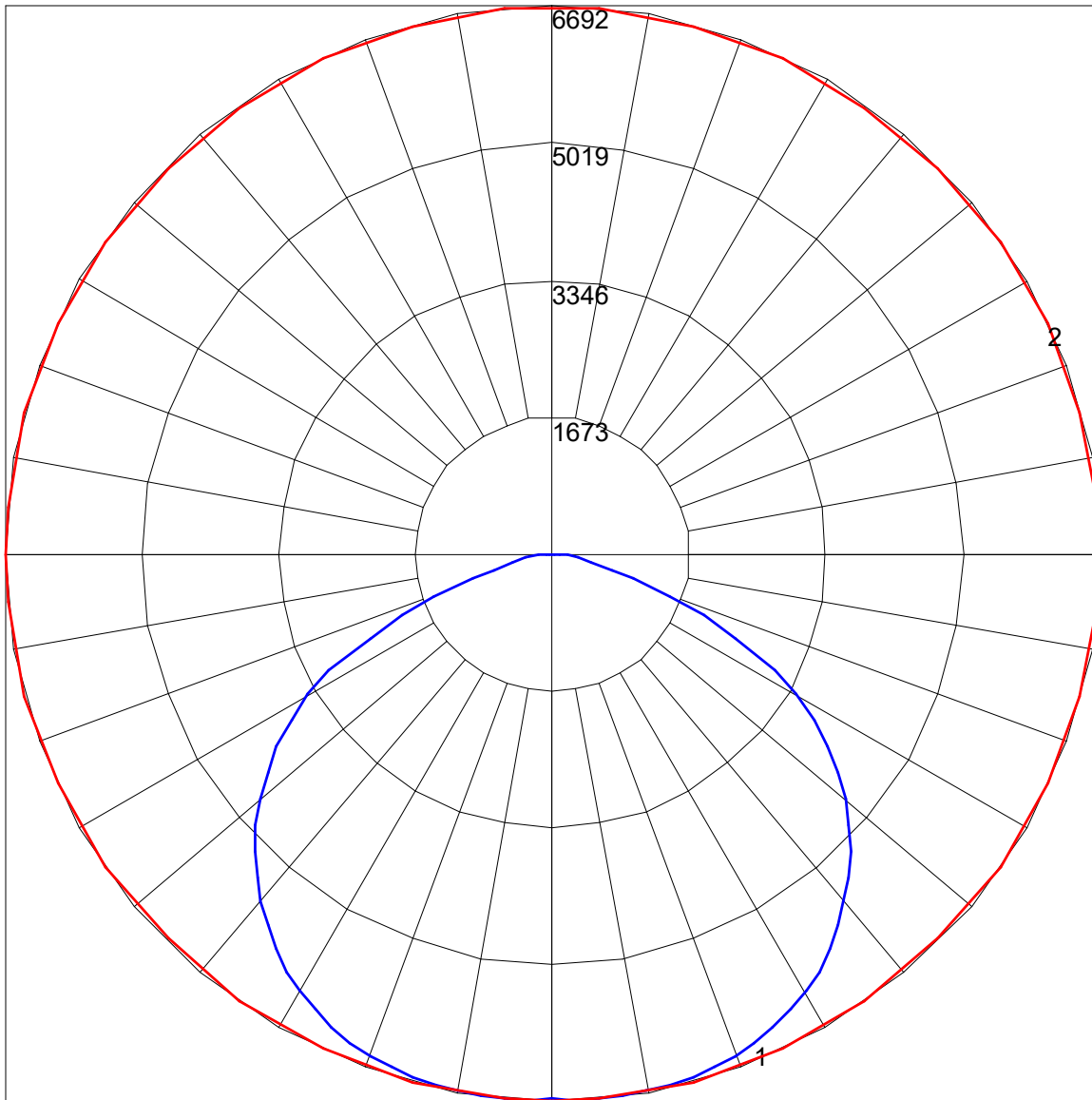
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

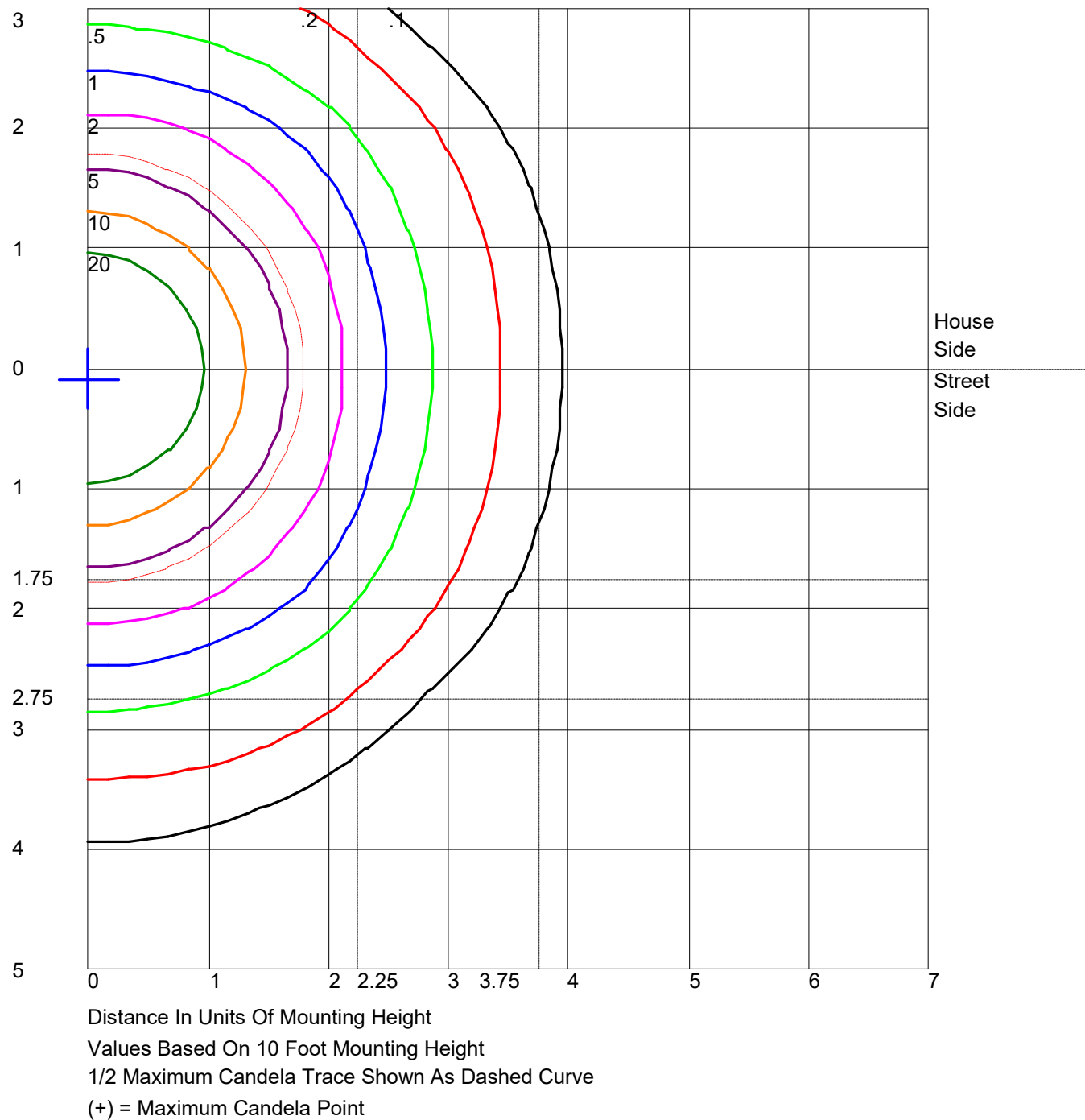
	Lumens	Percent Of Luminaire
Downward Street Side	10147.3	50.0
Downward House Side	10147.3	50.0
Downward Total	20294.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20294.6	100.0

POLAR GRAPH

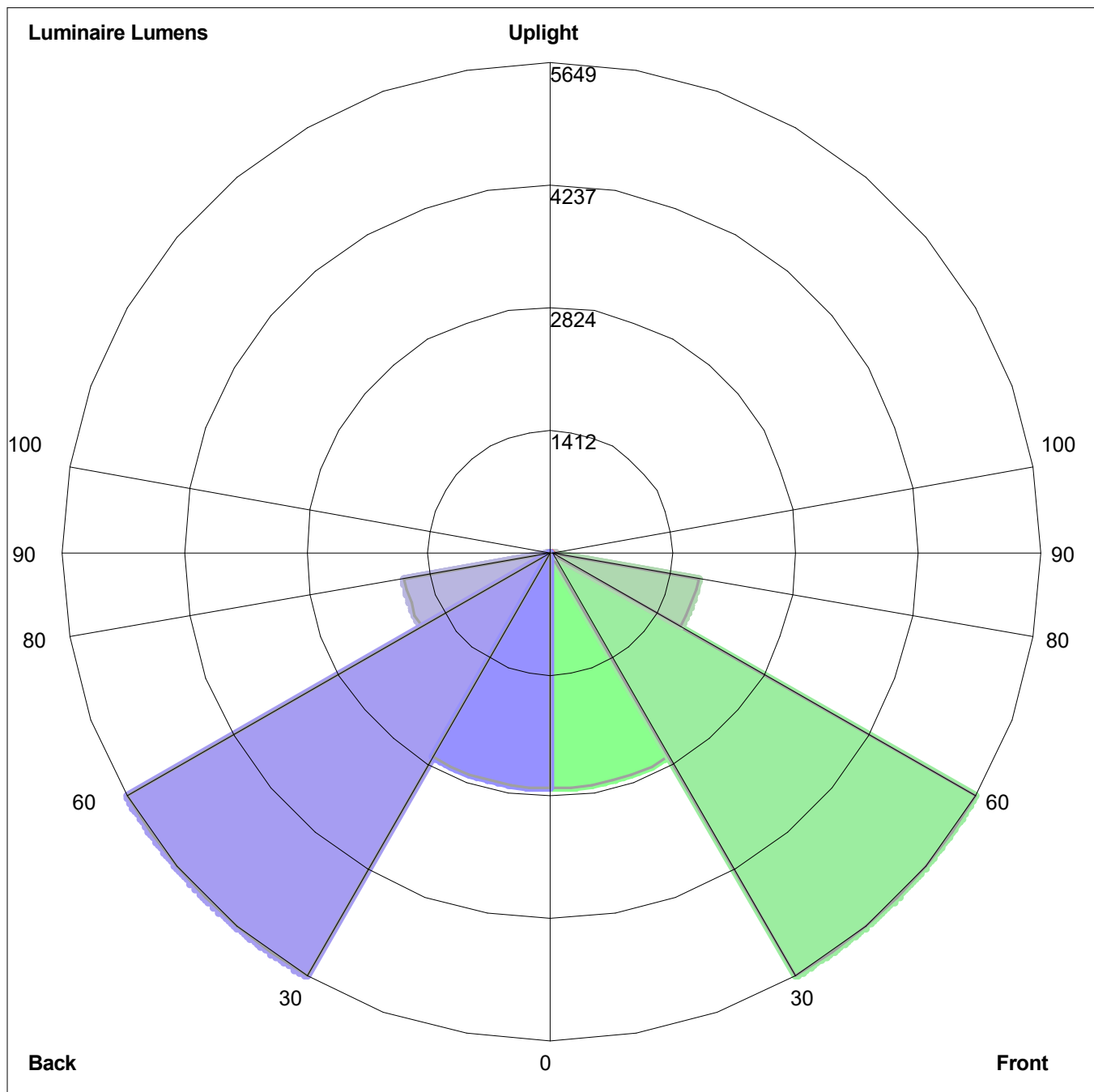


Maximum Candela = 6692 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2721.5, Medium= 5649.0, High=1725.5, Very High=51.3  
Back: Low=2721.5, Medium= 5649.0, High=1725.5, Very High=51.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G1