



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-20L-5C-50K8.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-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 VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21126
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	169
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6966
Maximum Candela Angle	0H 5V
Maximum Candela (<90 Degrees Vertical)	6966
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	356 (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)	2833.0	N.A.	13.4
FM - Front-Medium (30-60)	5880.6	N.A.	27.8
FH - Front-High (60-80)	1796.3	N.A.	8.5
FVH - Front-Very High (80-90)	53.3	N.A.	0.3
BL - Back-Low (0-30)	2833.0	N.A.	13.4
BM - Back-Medium (30-60)	5880.6	N.A.	27.8
BH - Back-High (60-80)	1796.3	N.A.	8.5
BVH - Back-Very High (80-90)	53.3	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	21126.4	N.A.	100.0
BUG Rating	B4-U0-G1		

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**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>	6935	6935	6935	6935	6935	6935	6935	6935	6935	6935
<b>2.5</b>	6965	6959	6955	6948	6945	6939	6942	6943	6952	6953
<b>5.0</b>	6966	6961	6956	6949	6947	6940	6943	6945	6955	6955
<b>7.5</b>	6956	6955	6949	6942	6940	6932	6934	6936	6947	6948
<b>10.0</b>	6941	6937	6932	6924	6922	6917	6918	6921	6930	6930
<b>12.5</b>	6918	6914	6909	6901	6898	6893	6894	6896	6907	6907
<b>15.0</b>	6886	6881	6878	6871	6867	6862	6862	6865	6874	6877
<b>17.5</b>	6845	6842	6835	6830	6827	6822	6822	6824	6833	6836
<b>20.0</b>	6794	6790	6784	6778	6776	6773	6772	6773	6780	6783
<b>22.5</b>	6728	6724	6720	6710	6710	6709	6708	6706	6716	6718
<b>25.0</b>	6648	6644	6638	6627	6631	6629	6630	6627	6635	6635
<b>27.5</b>	6552	6547	6538	6531	6534	6535	6535	6531	6539	6537
<b>30.0</b>	6438	6429	6422	6417	6421	6423	6424	6419	6421	6422
<b>32.5</b>	6304	6297	6289	6285	6292	6289	6294	6289	6290	6291
<b>35.0</b>	6147	6143	6138	6137	6142	6140	6141	6140	6139	6140
<b>37.5</b>	5977	5971	5965	5966	5971	5970	5966	5968	5963	5968
<b>40.0</b>	5779	5781	5776	5779	5783	5782	5773	5776	5774	5780
<b>42.5</b>	5576	5572	5572	5576	5579	5573	5562	5562	5564	5576
<b>45.0</b>	5355	5346	5351	5356	5357	5347	5342	5343	5343	5356
<b>47.5</b>	5118	5109	5103	5119	5107	5109	5102	5105	5097	5107
<b>50.0</b>	4862	4853	4847	4851	4848	4849	4845	4850	4842	4850
<b>52.5</b>	4583	4575	4572	4561	4557	4562	4563	4574	4567	4564
<b>55.0</b>	4284	4279	4267	4251	4245	4251	4259	4267	4271	4259
<b>57.5</b>	3950	3954	3934	3933	3931	3931	3938	3949	3941	3941
<b>60.0</b>	3589	3597	3596	3596	3589	3587	3596	3605	3596	3593
<b>62.5</b>	3209	3227	3237	3228	3225	3220	3215	3218	3237	3223
<b>65.0</b>	2571	2596	2725	2839	2837	2811	2816	2820	2680	2593
<b>67.5</b>	2082	2078	2107	2210	2395	2402	2376	2176	2114	2096
<b>70.0</b>	1599	1599	1611	1690	1790	1960	1789	1695	1629	1610
<b>72.5</b>	1074	1080	1147	1245	1298	1298	1309	1245	1177	1122
<b>75.0</b>	785	780	788	782	795	778	837	821	798	777
<b>77.5</b>	511	515	505	486	419	377	432	535	522	529
<b>80.0</b>	336	348	336	278	189	167	202	298	349	356
<b>82.5</b>	194	196	187	131	102	95	100	137	196	206
<b>85.0</b>	89	89	79	60	59	58	58	61	81	96
<b>87.5</b>	31	31	31	31	30	30	30	32	32	34
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

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

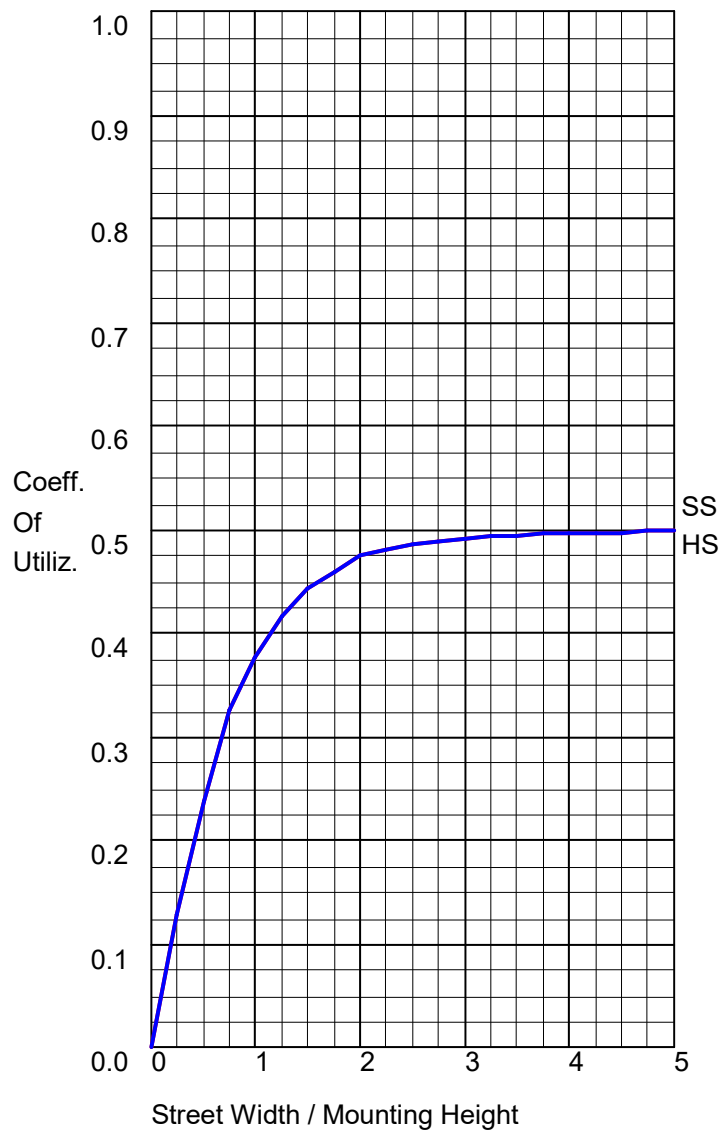
	<u><b>90</b></u>
<b>0.0</b>	6935
<b>2.5</b>	6957
<b>5.0</b>	6958
<b>7.5</b>	6951
<b>10.0</b>	6935
<b>12.5</b>	6914
<b>15.0</b>	6881
<b>17.5</b>	6838
<b>20.0</b>	6783
<b>22.5</b>	6718
<b>25.0</b>	6636
<b>27.5</b>	6540

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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	6425
<b>32.5</b>	6292
<b>35.0</b>	6141
<b>37.5</b>	5971
<b>40.0</b>	5783
<b>42.5</b>	5579
<b>45.0</b>	5361
<b>47.5</b>	5111
<b>50.0</b>	4842
<b>52.5</b>	4561
<b>55.0</b>	4264
<b>57.5</b>	3944
<b>60.0</b>	3598
<b>62.5</b>	3223
<b>65.0</b>	2582
<b>67.5</b>	2084
<b>70.0</b>	1606
<b>72.5</b>	1095
<b>75.0</b>	771
<b>77.5</b>	522
<b>80.0</b>	351
<b>82.5</b>	204
<b>85.0</b>	98
<b>87.5</b>	34
<b>90.0</b>	0

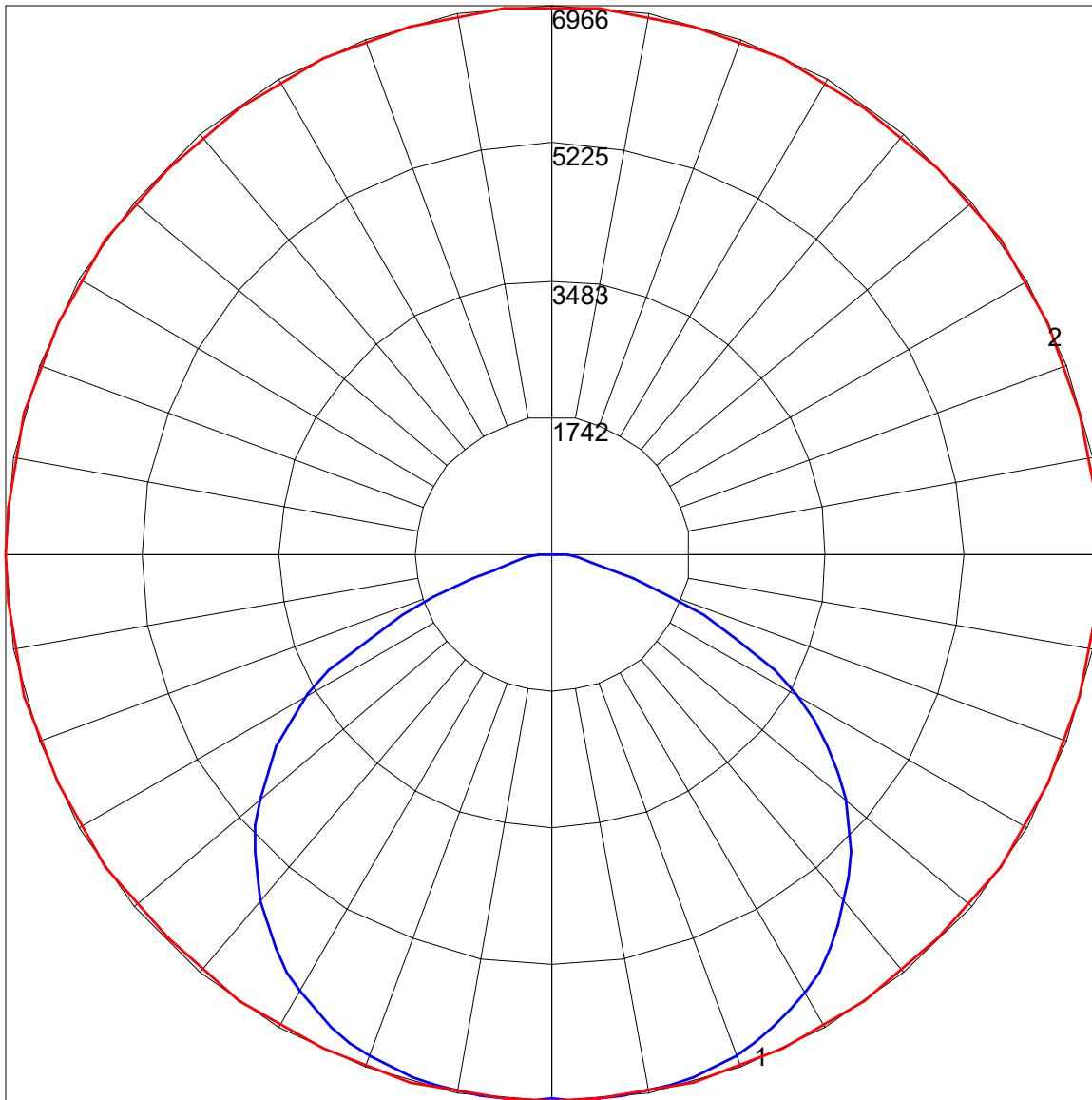
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

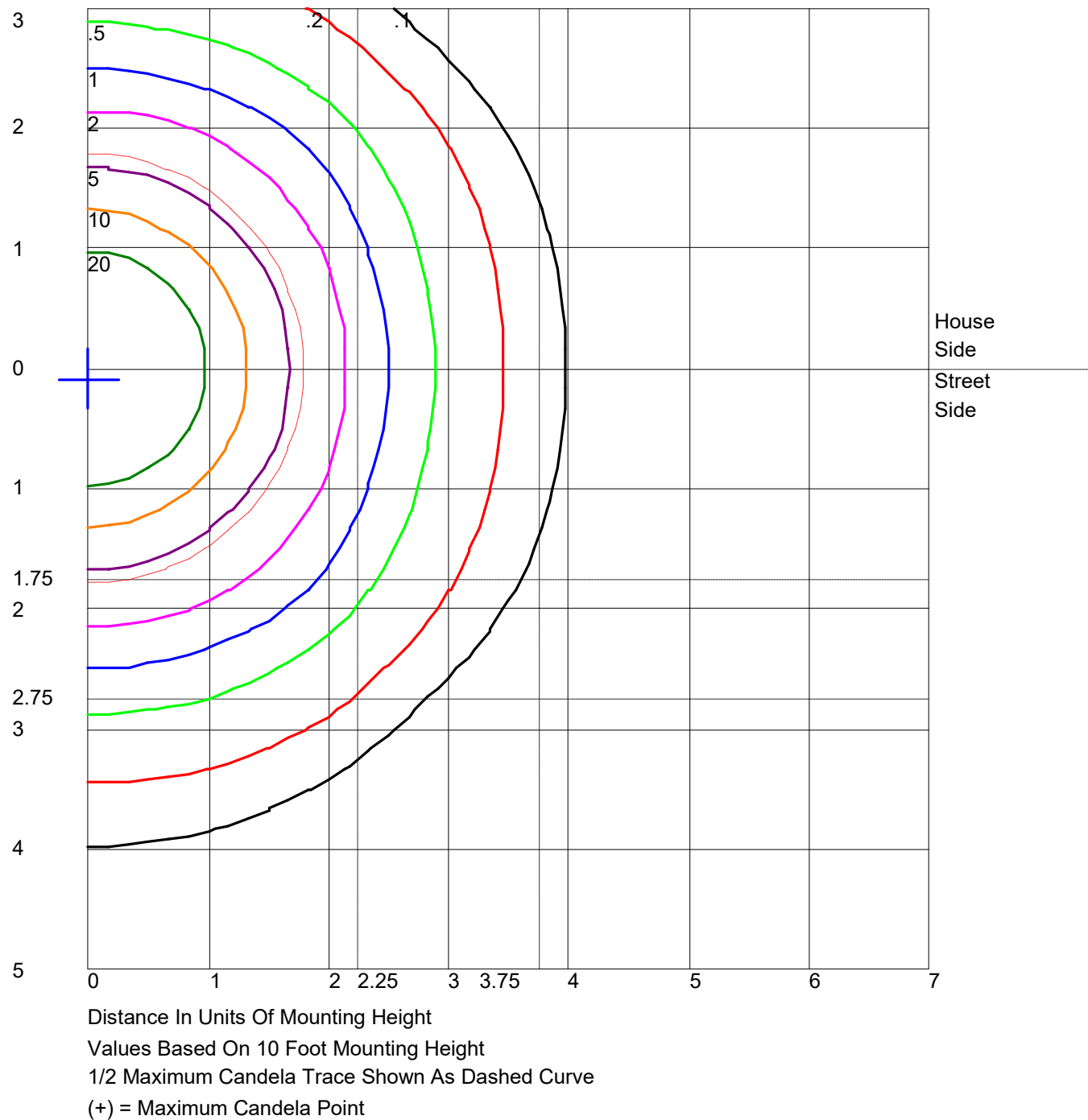
	Lumens	Percent Of Luminaire
Downward Street Side	10563.2	50.0
Downward House Side	10563.2	50.0
Downward Total	21126.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21126.4	100.0

POLAR GRAPH

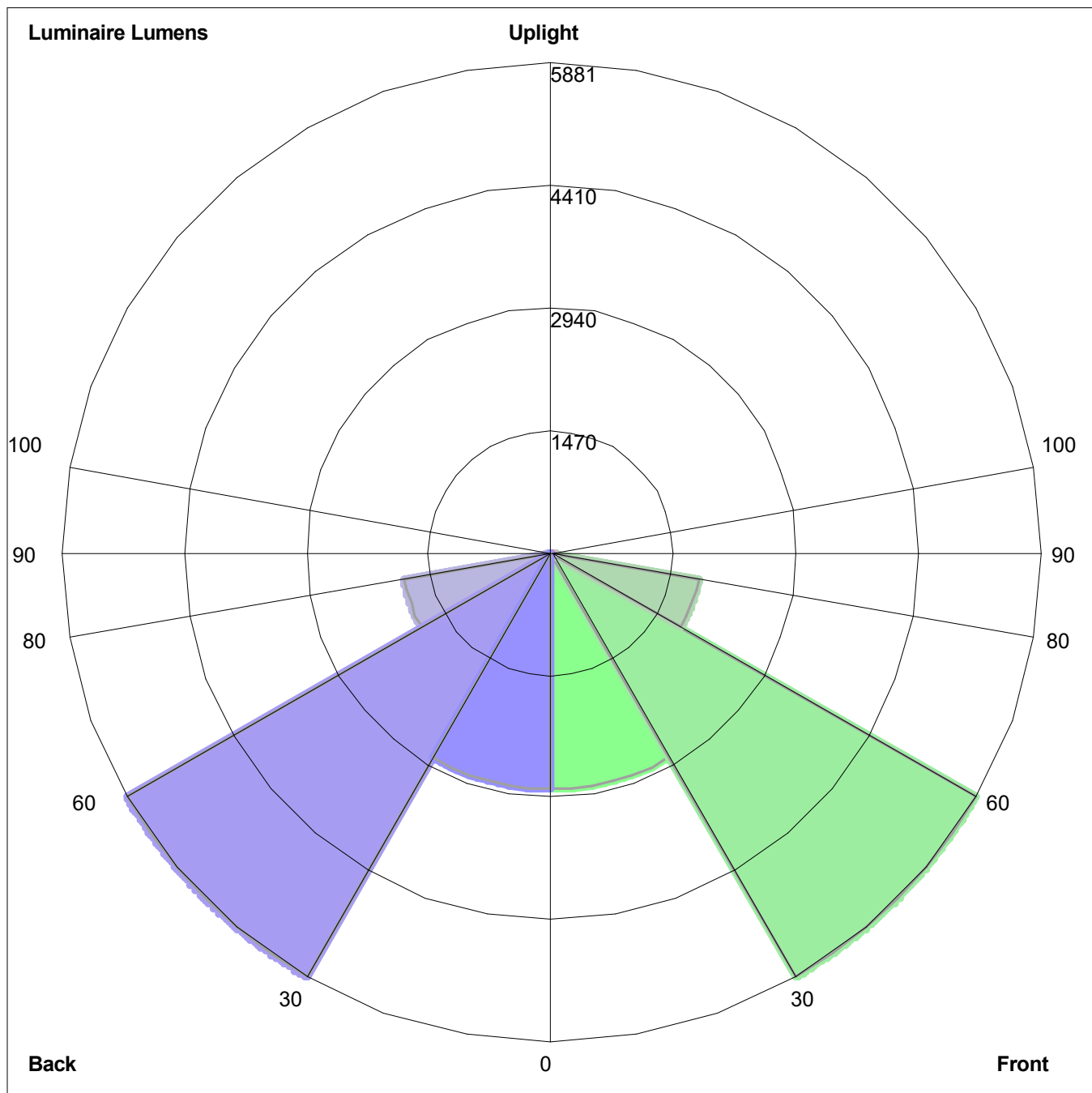


Maximum Candela = 6966 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low= 2833.0, Medium=5880.6, High=1796.3, Very High=53.3  
Back: Low= 2833.0, Medium=5880.6, High=1796.3, Very High=53.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G1