



## IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-20L-5R-40K8.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-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21360
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	6129
Maximum Candela Angle	45H 62.5V
Maximum Candela (<90 Degrees Vertical)	6129
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	1070 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2008.5	N.A.	9.4
FM - Front-Medium (30-60)	5685.1	N.A.	26.6
FH - Front-High (60-80)	2870.7	N.A.	13.4
FVH - Front-Very High (80-90)	115.4	N.A.	0.5
BL - Back-Low (0-30)	2008.5	N.A.	9.4
BM - Back-Medium (30-60)	5685.1	N.A.	26.6
BH - Back-High (60-80)	2870.7	N.A.	13.4
BVH - Back-Very High (80-90)	115.4	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	21359.4	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	4819	4819	4819	4819	4819	4819	4819	4819	4819	4819
2.5	4798	4798	4801	4794	4819	4831	4835	4847	4867	4868
5.0	4783	4787	4787	4782	4810	4825	4840	4853	4873	4871
7.5	4756	4761	4767	4767	4803	4817	4828	4845	4876	4875
10.0	4721	4727	4731	4729	4763	4789	4815	4831	4870	4868
12.5	4704	4710	4712	4713	4747	4763	4785	4820	4861	4861
15.0	4693	4693	4694	4697	4729	4753	4761	4803	4850	4858
17.5	4697	4692	4690	4685	4718	4737	4748	4770	4840	4861
20.0	4697	4699	4699	4694	4713	4726	4736	4747	4828	4869
22.5	4714	4720	4716	4707	4731	4730	4728	4740	4817	4877
25.0	4739	4749	4748	4735	4756	4749	4735	4742	4806	4878
27.5	4765	4773	4782	4774	4787	4774	4750	4742	4793	4878
30.0	4791	4794	4811	4806	4819	4793	4759	4744	4791	4894
32.5	4789	4800	4833	4838	4844	4812	4778	4760	4796	4908
35.0	4784	4794	4836	4859	4869	4838	4801	4770	4791	4915
37.5	4782	4793	4833	4862	4885	4859	4814	4759	4768	4907
40.0	4769	4782	4812	4857	4889	4866	4819	4729	4732	4889
42.5	4840	4829	4817	4857	4887	4868	4819	4712	4692	4860
45.0	5111	5083	4906	4879	4897	4867	4833	4692	4660	4840
47.5	5150	5156	5175	4947	4934	4887	4845	4660	4647	4861
50.0	5177	5170	5182	5134	5016	4935	4872	4648	4671	4918
52.5	5235	5241	5264	5341	5150	5064	4932	4652	4664	4925
55.0	5287	5301	5377	5420	5239	5227	5060	4613	4636	4943
57.5	5235	5272	5460	5537	5490	5463	5157	4569	4672	5062
60.0	4978	5016	5312	5479	5748	5822	5200	4508	4580	4966
62.5	4470	4517	4764	5074	5769	6129	5214	4306	4174	4440
65.0	3748	3802	3998	4428	5318	5938	5102	3925	3617	3712
67.5	2863	2890	3089	3547	4370	5170	4699	3284	2925	2808
70.0	2075	2096	2219	2626	3285	4121	3898	2459	2175	1837
72.5	1422	1446	1526	1841	2459	3129	2809	1646	1311	982
75.0	1021	1045	1074	1277	1797	2465	1902	1190	881	627
77.5	729	752	749	863	1345	1860	1406	767	455	338
80.0	509	499	485	564	1000	1070	805	384	303	250
82.5	278	280	272	402	552	486	298	214	208	174
85.0	134	134	146	233	356	174	107	118	134	113
87.5	67	67	84	81	114	45	37	40	46	53
90.0	0	0	0	0	0	0	0	0	0	0

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

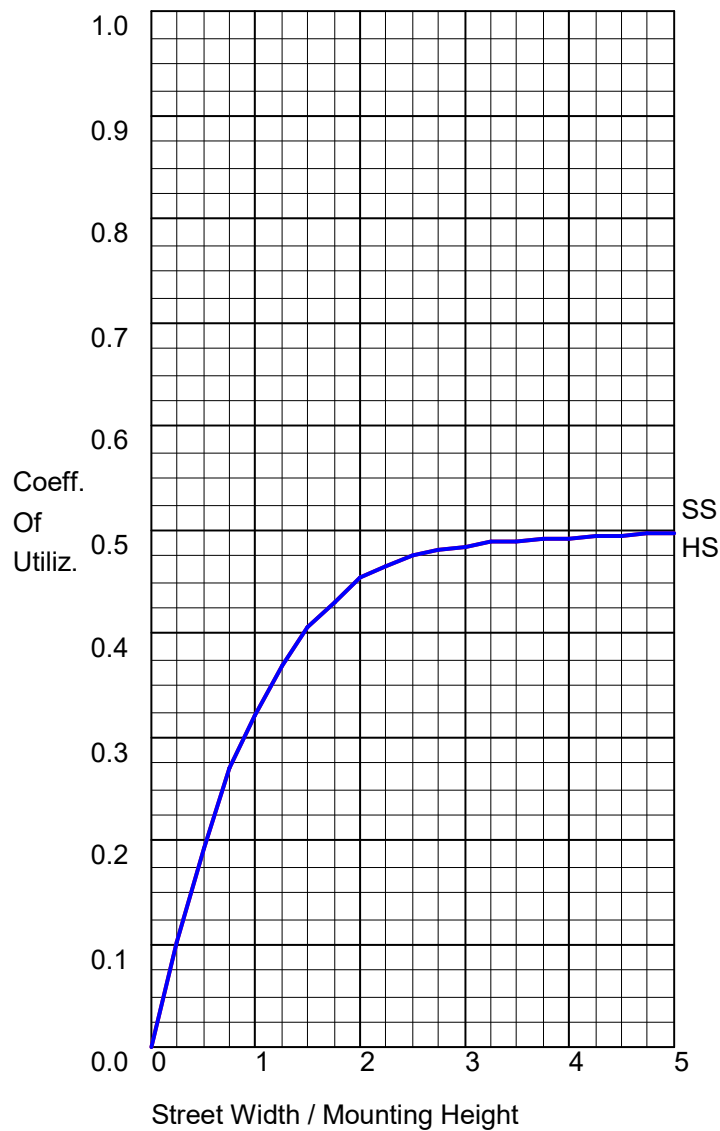
	<u>90</u>
0.0	4819
2.5	4864
5.0	4870
7.5	4872
10.0	4863
12.5	4861
15.0	4856
17.5	4856
20.0	4869
22.5	4873
25.0	4882
27.5	4891

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**CANDELA TABULATION - (Cont.)**

<b>30.0</b>	4905
<b>32.5</b>	4925
<b>35.0</b>	4930
<b>37.5</b>	4928
<b>40.0</b>	4914
<b>42.5</b>	4889
<b>45.0</b>	4868
<b>47.5</b>	4902
<b>50.0</b>	4964
<b>52.5</b>	4963
<b>55.0</b>	4981
<b>57.5</b>	5110
<b>60.0</b>	5072
<b>62.5</b>	4595
<b>65.0</b>	3817
<b>67.5</b>	2828
<b>70.0</b>	1785
<b>72.5</b>	847
<b>75.0</b>	543
<b>77.5</b>	310
<b>80.0</b>	236
<b>82.5</b>	158
<b>85.0</b>	103
<b>87.5</b>	46
<b>90.0</b>	0

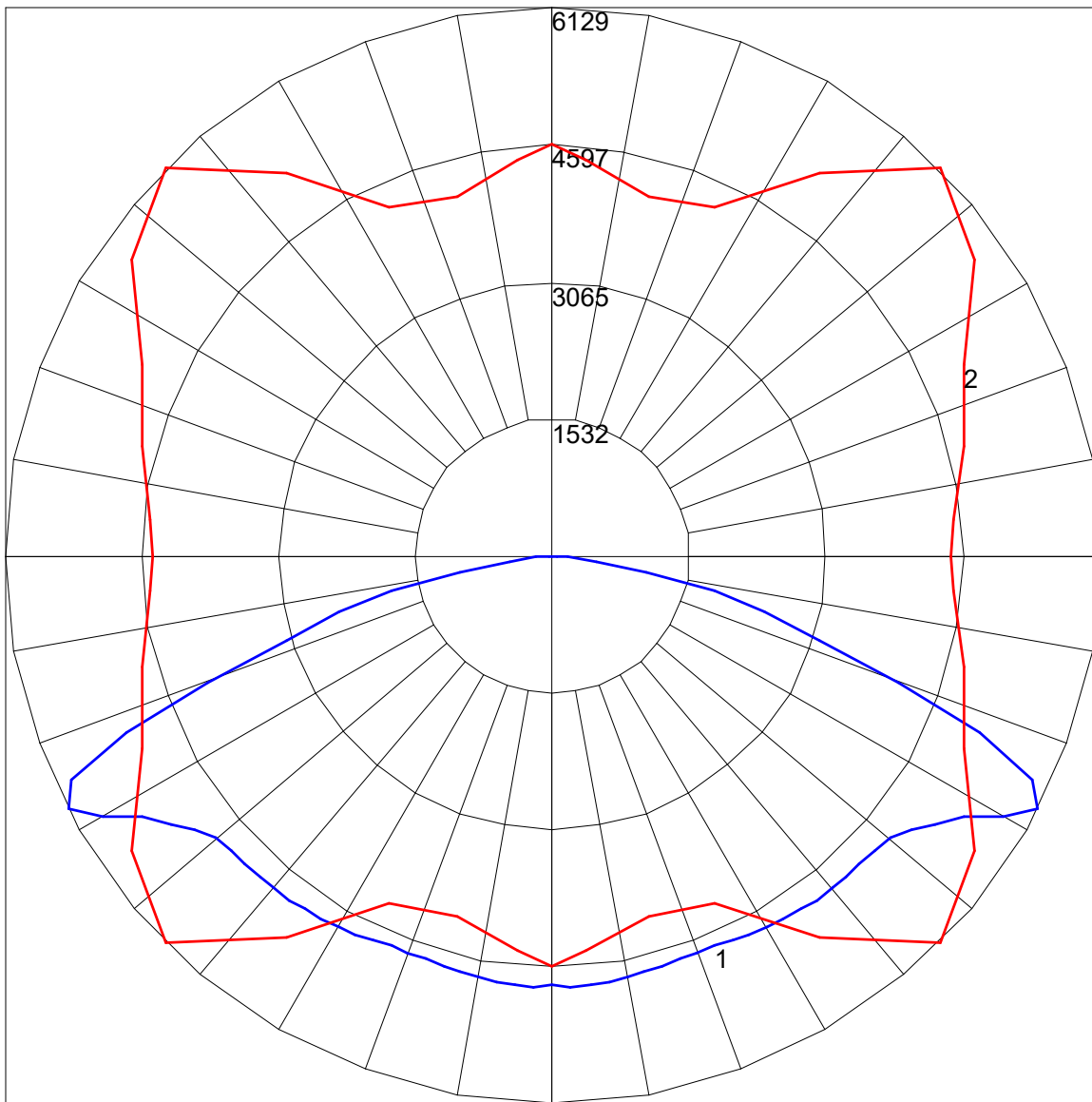
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

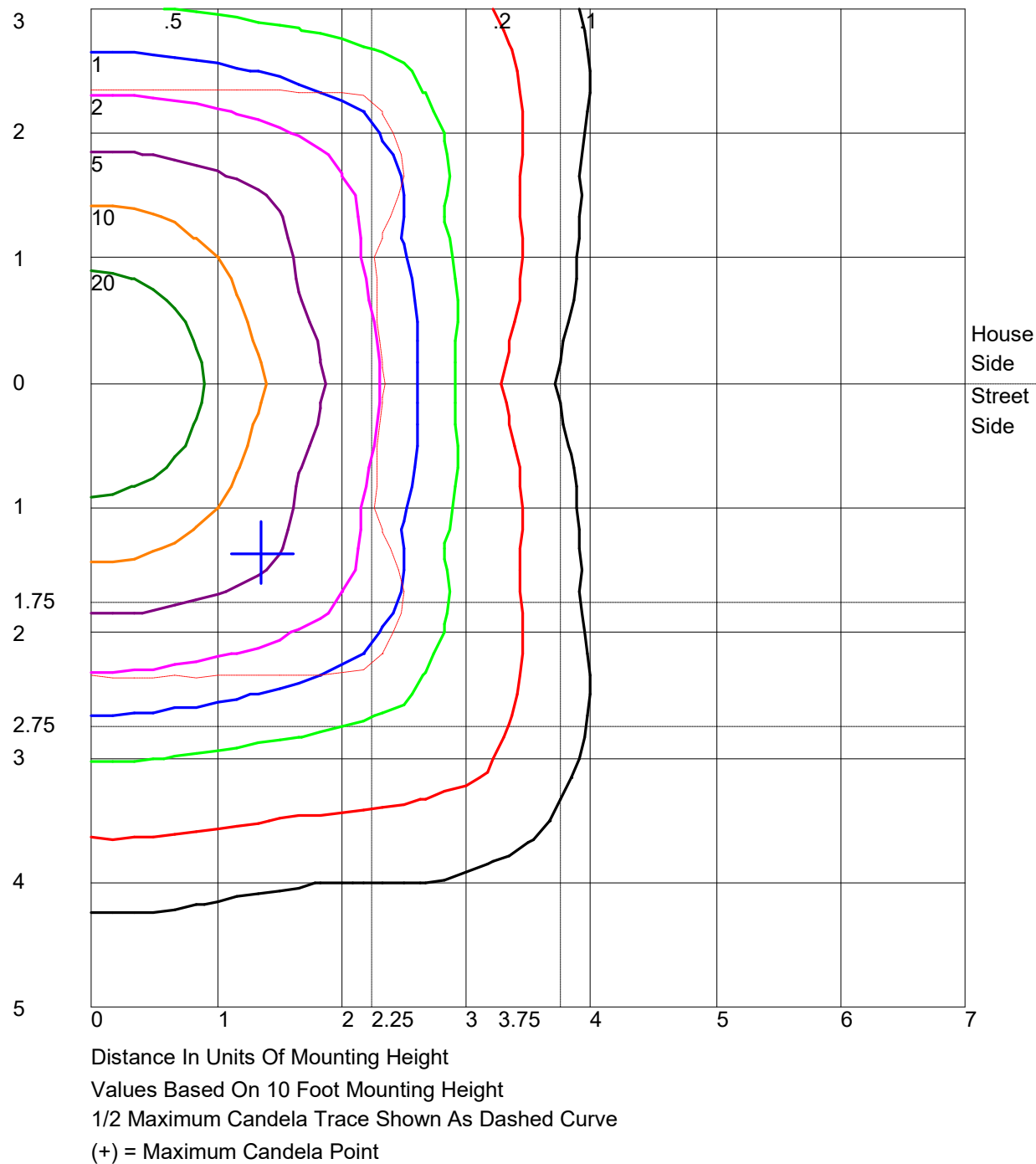
	Lumens	Percent Of Luminaire
Downward Street Side	10679.8	50.0
Downward House Side	10679.8	50.0
Downward Total	21359.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21359.6	100.0

POLAR GRAPH

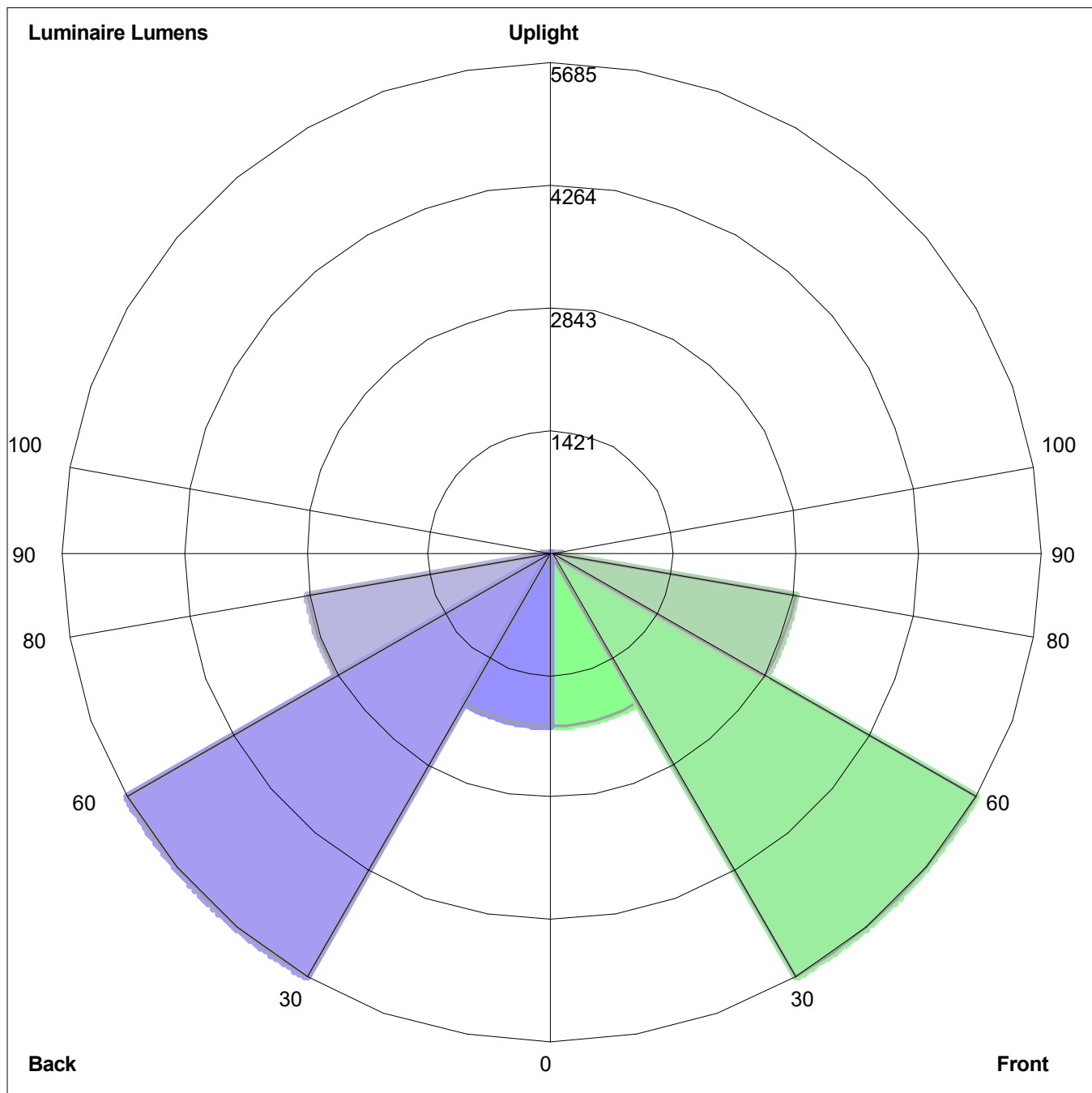


Maximum Candela = 6129 Located At Horizontal Angle = 45, Vertical Angle = 62.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2008.5, Medium=5685.1, High=2870.7, Very High=115.4  
Back: Low=2008.5, Medium=5685.1, High=2870.7, Very High=115.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2