



IES ROAD REPORT

PHOTOMETRIC FILENAME : HPG-13L-5Q-40K8.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12892
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 10/22/2021
[TEST DATE] 08/18/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] HPG-13L-5Q-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	13030
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	106
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6350
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	6350
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1060 (8.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	645.0	N.A.	5.0
FM - Front-Medium (30-60)	3021.7	N.A.	23.2
FH - Front-High (60-80)	2740.8	N.A.	21.0
FVH - Front-Very High (80-90)	107.6	N.A.	0.8
BL - Back-Low (0-30)	645.0	N.A.	5.0
BM - Back-Medium (30-60)	3021.7	N.A.	23.2
BH - Back-High (60-80)	2740.8	N.A.	21.0
BVH - Back-Very High (80-90)	107.6	N.A.	0.8
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	13030.2	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	1490	1490	1490	1490	1490	1490	1490	1490	1490	1490
2.5	1494	1493	1491	1490	1493	1494	1494	1493	1497	1496
5.0	1489	1487	1488	1487	1485	1483	1482	1482	1487	1487
7.5	1477	1477	1478	1471	1474	1478	1475	1471	1475	1474
10.0	1468	1467	1466	1455	1450	1444	1450	1456	1465	1465
12.5	1461	1461	1456	1447	1435	1432	1438	1450	1459	1464
15.0	1462	1463	1453	1437	1432	1437	1434	1442	1461	1466
17.5	1479	1478	1460	1436	1439	1443	1442	1444	1469	1485
20.0	1514	1513	1482	1453	1458	1459	1464	1465	1493	1516
22.5	1562	1563	1520	1496	1496	1497	1504	1506	1527	1563
25.0	1621	1618	1568	1554	1557	1562	1563	1564	1577	1618
27.5	1680	1675	1628	1624	1638	1643	1643	1634	1632	1674
30.0	1748	1742	1694	1704	1721	1723	1723	1707	1697	1743
32.5	1825	1817	1771	1803	1810	1808	1808	1797	1769	1812
35.0	1897	1889	1849	1894	1910	1903	1909	1884	1840	1881
37.5	1971	1961	1919	1979	2015	2012	2010	1963	1904	1961
40.0	2045	2038	1986	2058	2123	2128	2116	2038	1968	2041
42.5	2167	2140	2057	2139	2230	2242	2229	2125	2049	2155
45.0	2391	2357	2183	2229	2345	2359	2359	2236	2184	2397
47.5	2510	2480	2403	2351	2484	2497	2519	2372	2445	2545
50.0	2704	2672	2541	2589	2672	2732	2720	2641	2612	2759
52.5	2977	2949	2804	2855	2988	3087	3050	2939	2875	3033
55.0	3418	3388	3197	3168	3385	3565	3431	3223	3244	3423
57.5	3883	3857	3679	3619	3950	4124	3945	3609	3657	3836
60.0	4165	4137	4025	4054	4594	4849	4509	3998	3996	4121
62.5	4056	3969	3945	4196	5099	5709	4980	4148	3925	3953
65.0	3500	3478	3535	3947	5239	6350	5158	3913	3494	3443
67.5	2728	2800	2961	3481	5020	6051	4926	3392	2886	2729
70.0	1708	1854	2058	2608	4248	5081	4095	2452	1983	1787
72.5	868	1023	1226	1669	3084	3880	2932	1561	1167	987
75.0	480	558	717	1028	1889	2622	1873	989	708	548
77.5	327	354	421	685	1282	1893	1314	679	421	353
80.0	235	241	263	405	879	1060	925	414	270	242
82.5	158	156	174	298	413	474	445	298	178	156
85.0	86	92	117	201	274	142	288	190	119	94
87.5	49	55	68	85	120	39	110	72	68	54
90.0	0	0	0	0	0	0	0	0	0	0

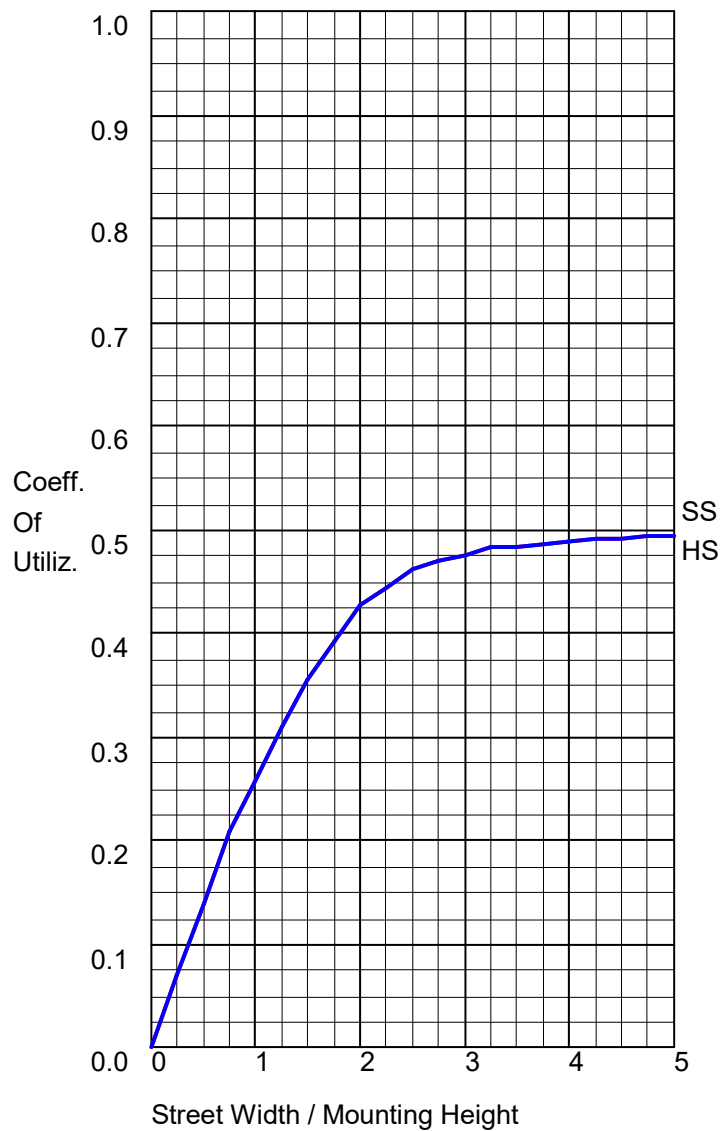
Vert. Angles	Horizontal Angles									
	<u>90</u>									
0.0	1490									
2.5	1495									
5.0	1485									
7.5	1473									
10.0	1465									
12.5	1462									
15.0	1465									
17.5	1484									
20.0	1514									
22.5	1560									
25.0	1615									
27.5	1675									

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CANDELA TABULATION - (Cont.)

30.0	1747
32.5	1821
35.0	1891
37.5	1969
40.0	2050
42.5	2173
45.0	2425
47.5	2564
50.0	2771
52.5	3028
55.0	3437
57.5	3843
60.0	4130
62.5	3975
65.0	3434
67.5	2677
70.0	1686
72.5	876
75.0	477
77.5	319
80.0	233
82.5	156
85.0	87
87.5	49
90.0	0

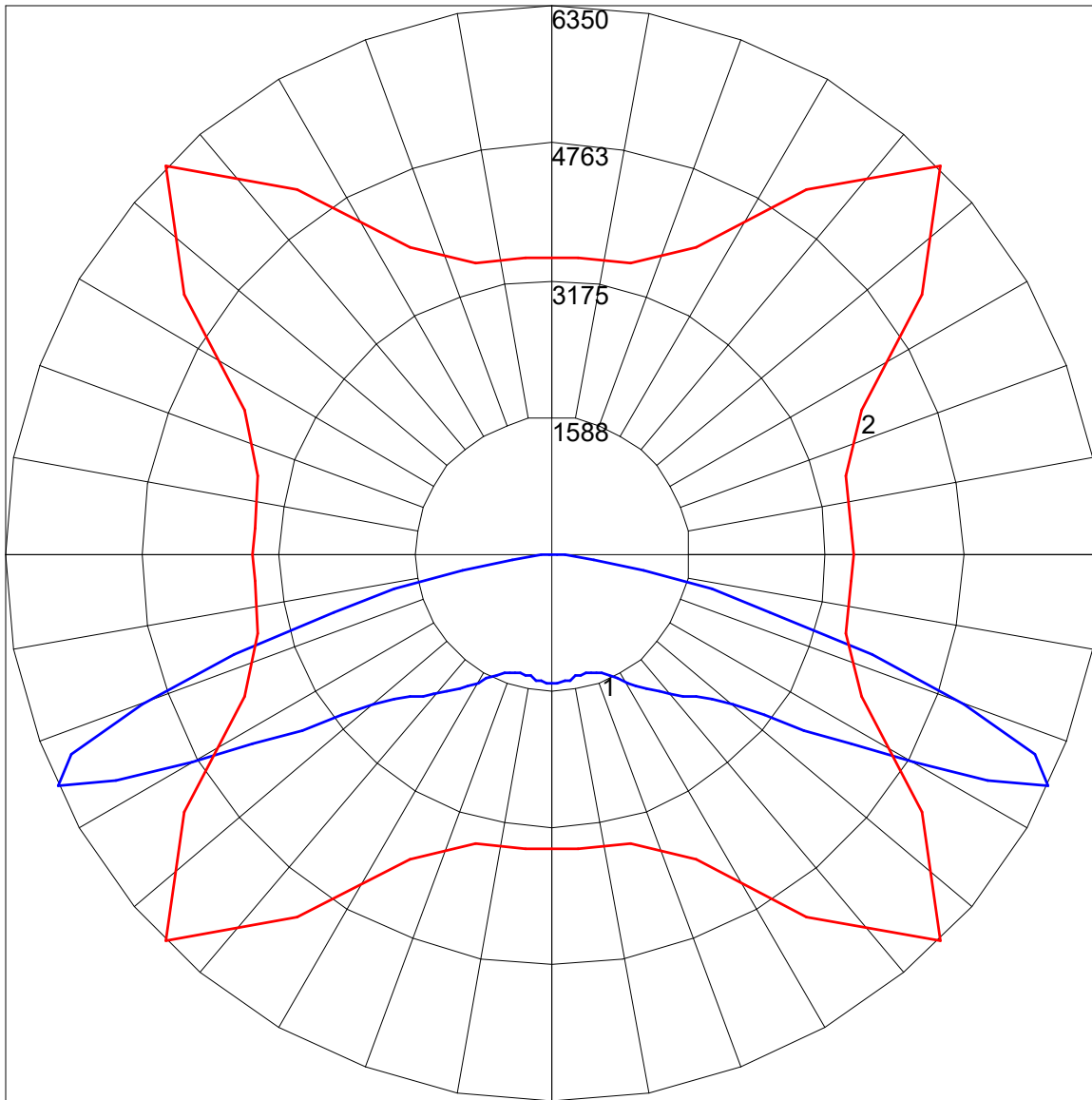
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

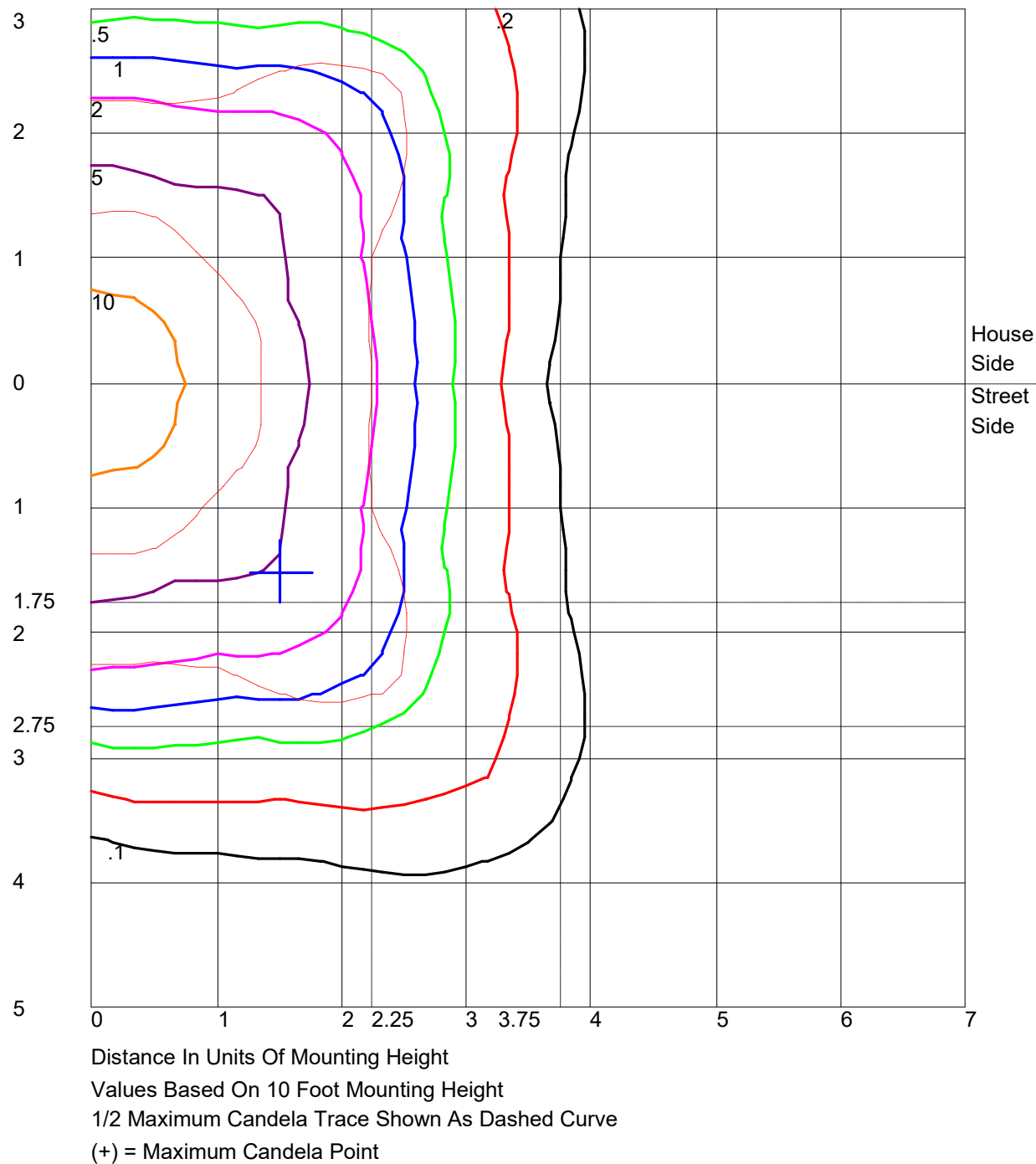
	Lumens	Percent Of Luminaire
Downward Street Side	6515.2	50.0
Downward House Side	6515.2	50.0
Downward Total	13030.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	13030.4	100.0

POLAR GRAPH

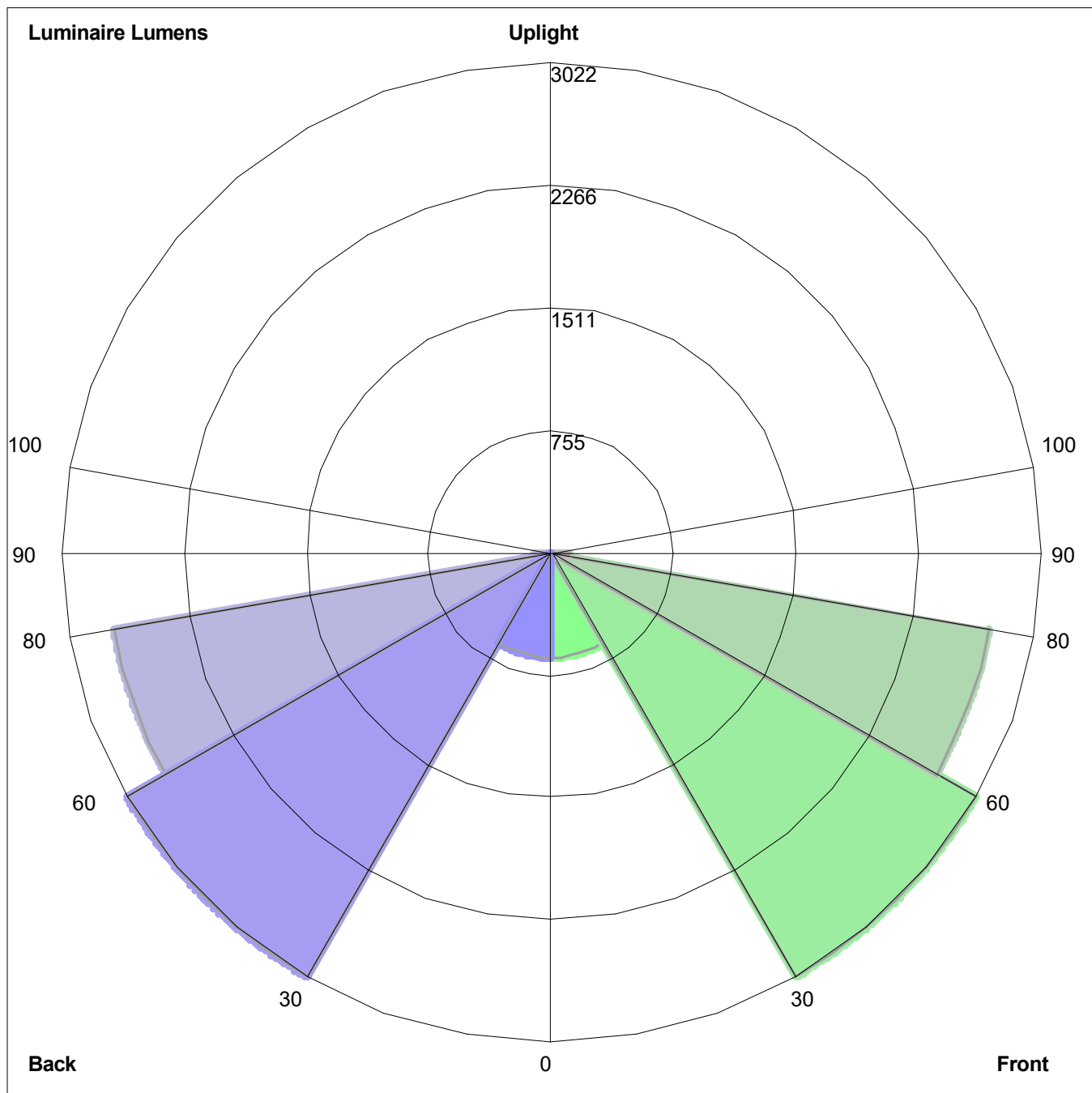


Maximum Candela = 6350 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=645.0, Medium=3021.7, High=2740.8, Very High=107.6
Back: Low=645.0, Medium=3021.7, High=2740.8, Very High=107.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2