



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-18-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-7922

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]11/21/16

[TEST DATE]09/27/16

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]XMR-5W-LED-18-50

[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[OTHER]SCALED FROM ORIGINAL TEST DATA

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19050
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	156
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10053.272
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	10053.272
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1174.826 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	749.1	N.A.	3.9
FM - Front-Medium (30-60)	3905.7	N.A.	20.5
FH - Front-High (60-80)	4791.3	N.A.	25.2
FVH - Front-Very High (80-90)	78.9	N.A.	0.4
BL - Back-Low (0-30)	749.1	N.A.	3.9
BM - Back-Medium (30-60)	3905.7	N.A.	20.5
BH - Back-High (60-80)	4791.3	N.A.	25.2
BVH - Back-Very High (80-90)	78.9	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	19050.0	N.A.	100.0
BUG Rating	B4-U0-G2		

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CANDELA TABULATION

Vert. Horizontal Angles
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	1448.142	1448.142	1448.142	1448.142	1448.142	1448.142	1448.142	1448.142	1448.142	1448.142
2.5	1447.062	1451.383	1451.923	1454.084	1454.624	1453.003	1453.544	1452.463	1449.222	1449.763
5.0	1443.821	1449.222	1450.303	1454.084	1457.865	1455.704	1457.865	1457.865	1455.164	1456.244
7.5	1440.580	1444.361	1449.222	1455.164	1461.646	1462.726	1467.588	1469.748	1467.047	1468.128
10.0	1451.383	1453.003	1460.566	1468.668	1478.931	1482.172	1488.113	1490.814	1488.653	1489.734
12.5	1482.712	1486.493	1494.055	1502.157	1515.121	1520.522	1525.384	1523.763	1522.683	1524.303
15.0	1538.887	1542.668	1552.931	1565.895	1575.077	1577.238	1578.858	1573.997	1571.296	1572.377
17.5	1606.946	1611.267	1626.932	1647.457	1659.341	1657.720	1650.698	1641.516	1632.333	1633.414
20.0	1681.487	1689.049	1712.275	1742.524	1763.050	1763.050	1746.305	1721.998	1703.093	1700.392
22.5	1760.349	1769.531	1806.262	1849.474	1885.664	1886.744	1857.576	1814.904	1781.955	1772.232
25.0	1845.152	1858.656	1906.189	1967.226	2021.241	2028.803	1989.372	1926.715	1872.160	1853.255
27.5	1939.138	1954.803	2014.759	2095.782	2173.564	2188.148	2141.695	2054.190	1981.270	1946.701
30.0	2037.446	2056.351	2130.352	2237.841	2334.528	2360.455	2308.061	2198.951	2101.183	2056.351
32.5	2143.315	2161.680	2250.265	2383.142	2510.077	2543.566	2489.551	2359.915	2233.520	2169.782
35.0	2249.725	2271.331	2374.499	2535.464	2688.867	2742.882	2681.845	2526.822	2368.018	2290.776
37.5	2366.397	2393.945	2508.997	2696.969	2877.379	2958.942	2883.861	2709.392	2511.697	2413.930
40.0	2492.252	2525.741	2652.677	2864.415	3080.475	3179.323	3093.439	2894.664	2662.939	2545.187
42.5	2644.034	2672.662	2807.700	3044.825	3285.192	3395.923	3305.178	3085.337	2830.386	2699.129
45.0	2815.262	2845.510	2981.628	3239.820	3495.851	3617.925	3527.720	3285.732	3021.599	2874.678
47.5	3020.519	3054.008	3182.564	3447.237	3711.911	3846.948	3753.502	3500.172	3223.615	3066.972
50.0	3232.798	3264.126	3404.565	3667.078	3948.496	4089.476	3988.468	3723.794	3446.697	3273.849
52.5	3435.894	3468.303	3624.406	3894.481	4188.323	4333.083	4228.834	3963.621	3695.706	3489.369
55.0	3676.261	3704.349	3858.291	4126.746	4445.975	4603.698	4485.405	4196.425	3933.912	3719.473
57.5	3959.299	3989.548	4147.272	4391.419	4719.290	4897.540	4765.743	4462.719	4240.177	4020.336
60.0	4282.309	4325.521	4473.522	4696.064	5040.680	5235.134	5094.155	4802.474	4588.574	4359.010
62.5	4715.509	4756.021	4900.781	5072.008	5453.894	5695.882	5500.887	5187.600	5034.198	4817.058
65.0	5153.571	5196.783	5337.762	5547.881	5990.263	6307.872	6079.388	5696.422	5533.837	5345.324
67.5	5588.392	5656.451	5876.292	6165.812	6781.583	7251.514	6891.774	6453.712	6320.295	6075.607
70.0	5397.719	5504.128	6046.439	6727.028	7778.700	8839.014	8043.914	7200.199	6504.486	5820.656
72.5	3409.967	3651.954	4407.624	5870.350	7900.234	10053.272	8267.536	6172.834	4518.355	3634.129
75.0	1194.812	1275.294	1729.560	3014.037	5723.969	8520.326	5980.001	3234.958	1674.465	1163.483
77.5	348.397	357.579	467.230	828.590	2148.717	4226.674	2312.382	917.175	462.368	371.083
80.0	188.512	189.052	241.987	339.754	610.369	1174.826	688.691	411.594	259.272	222.002
82.5	86.964	89.665	119.373	176.089	297.082	462.909	325.710	202.016	124.775	119.373
85.0	49.154	51.314	63.738	84.263	133.417	204.717	129.096	85.344	63.198	69.679
87.5	25.927	26.467	32.949	42.132	53.475	65.898	48.073	34.029	27.007	25.927
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

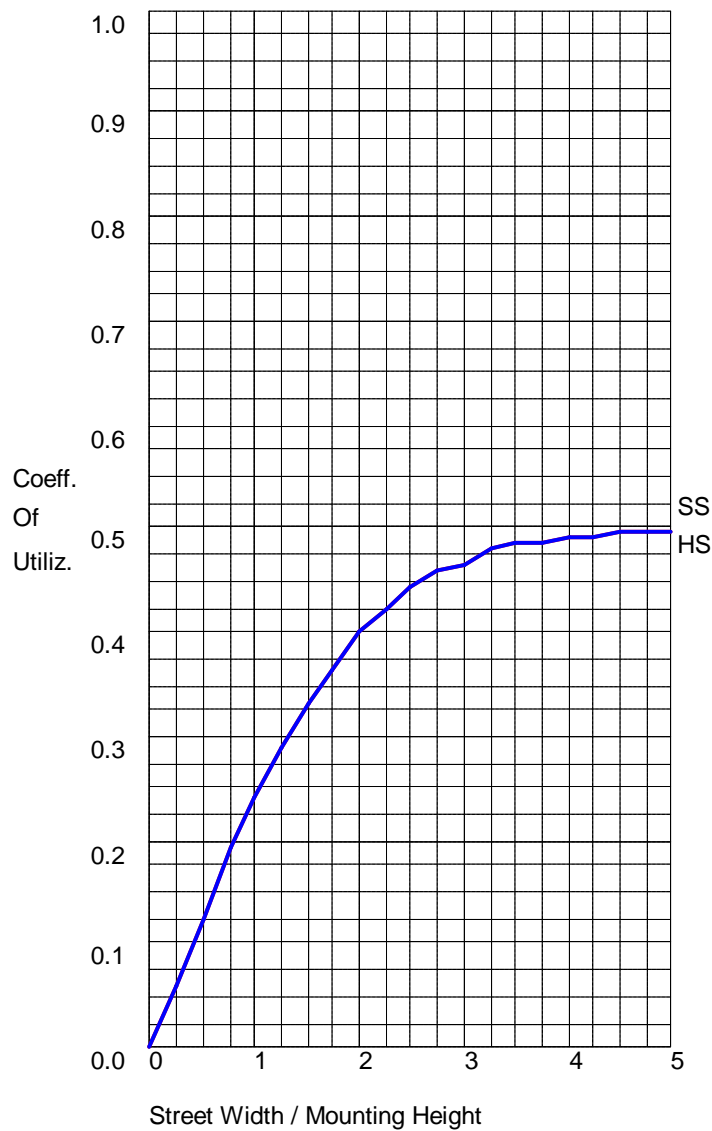
	<u>90</u>
0.0	1448.142
2.5	1447.602
5.0	1454.084
7.5	1465.427
10.0	1488.113
12.5	1522.683
15.0	1570.756
17.5	1629.633
20.0	1696.071
22.5	1770.072
25.0	1850.014
27.5	1942.379

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CANDELA TABULATION - (Cont.)

30.0	2047.709
32.5	2160.060
35.0	2276.192
37.5	2397.726
40.0	2535.464
42.5	2685.626
45.0	2861.174
47.5	3048.066
50.0	3254.404
52.5	3478.566
55.0	3691.925
57.5	3990.088
60.0	4322.280
62.5	4791.671
65.0	5321.558
67.5	6032.935
70.0	5741.254
72.5	3469.383
75.0	1143.498
77.5	366.762
80.0	215.520
82.5	116.132
85.0	66.979
87.5	24.847
90.0	0.000

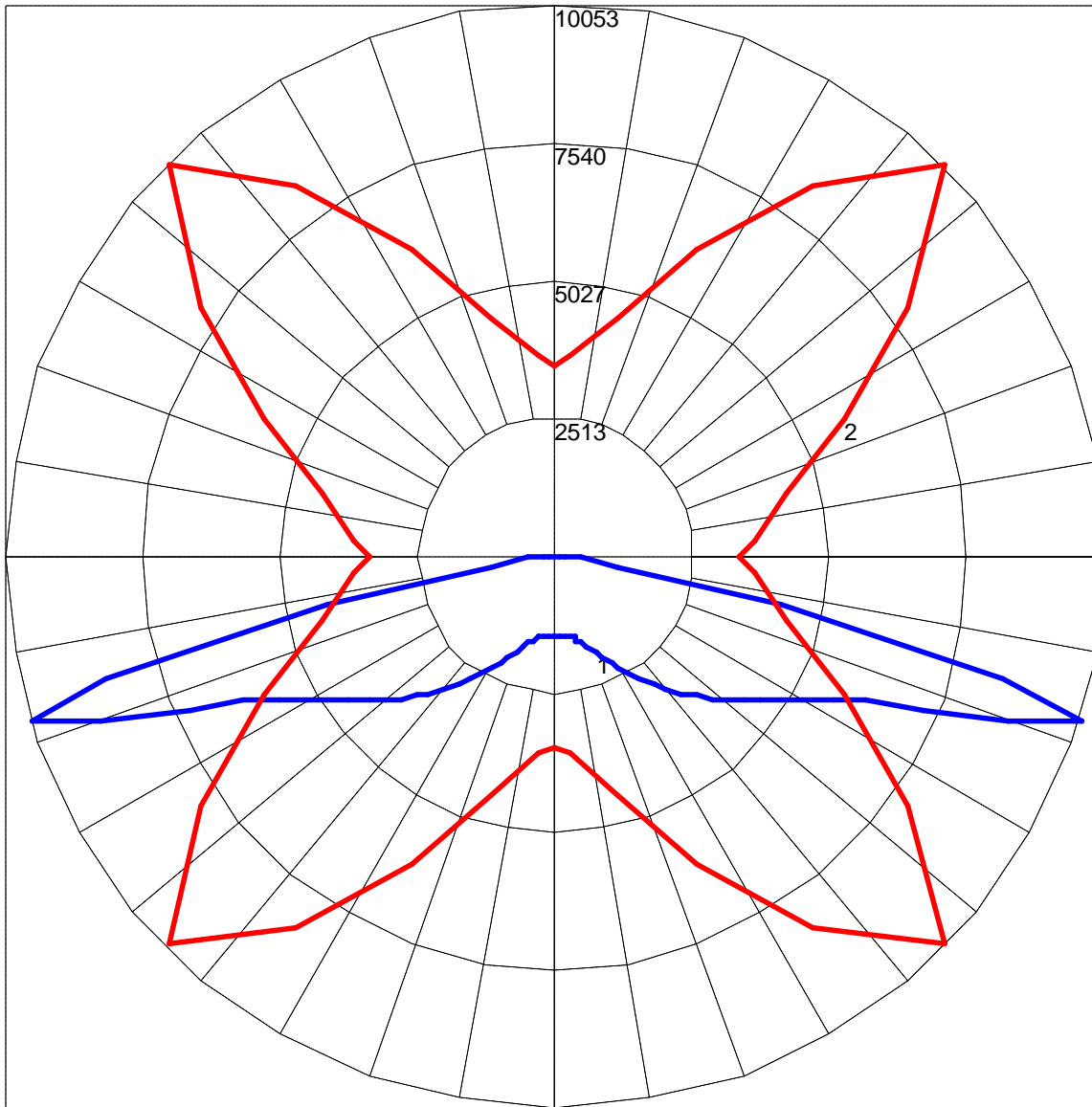
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

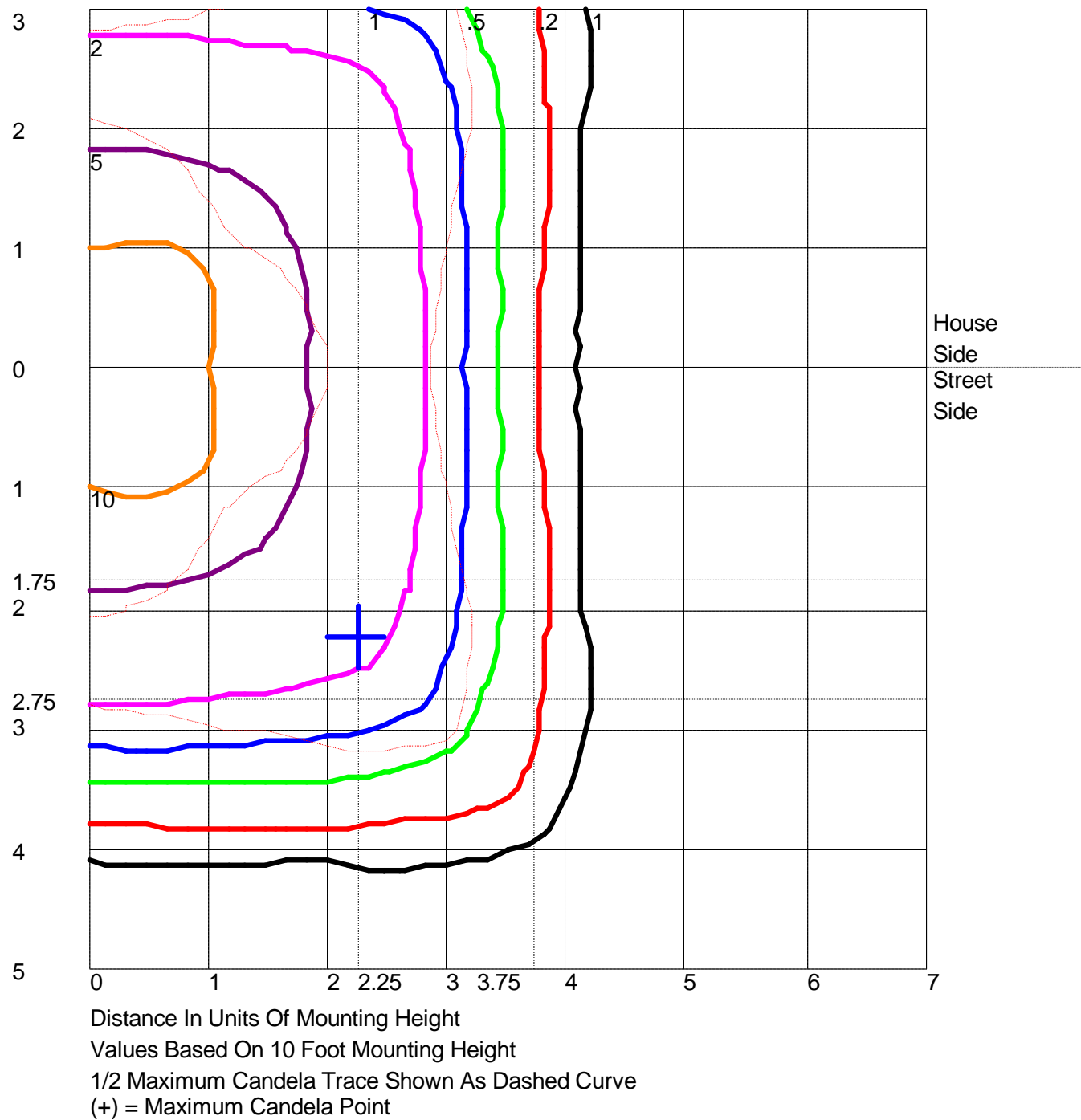
	Lumens	Percent Of Luminaire
Downward Street Side	9525.0	50.0
Downward House Side	9525.0	50.0
Downward Total	19050.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	19050.0	100.0

POLAR GRAPH

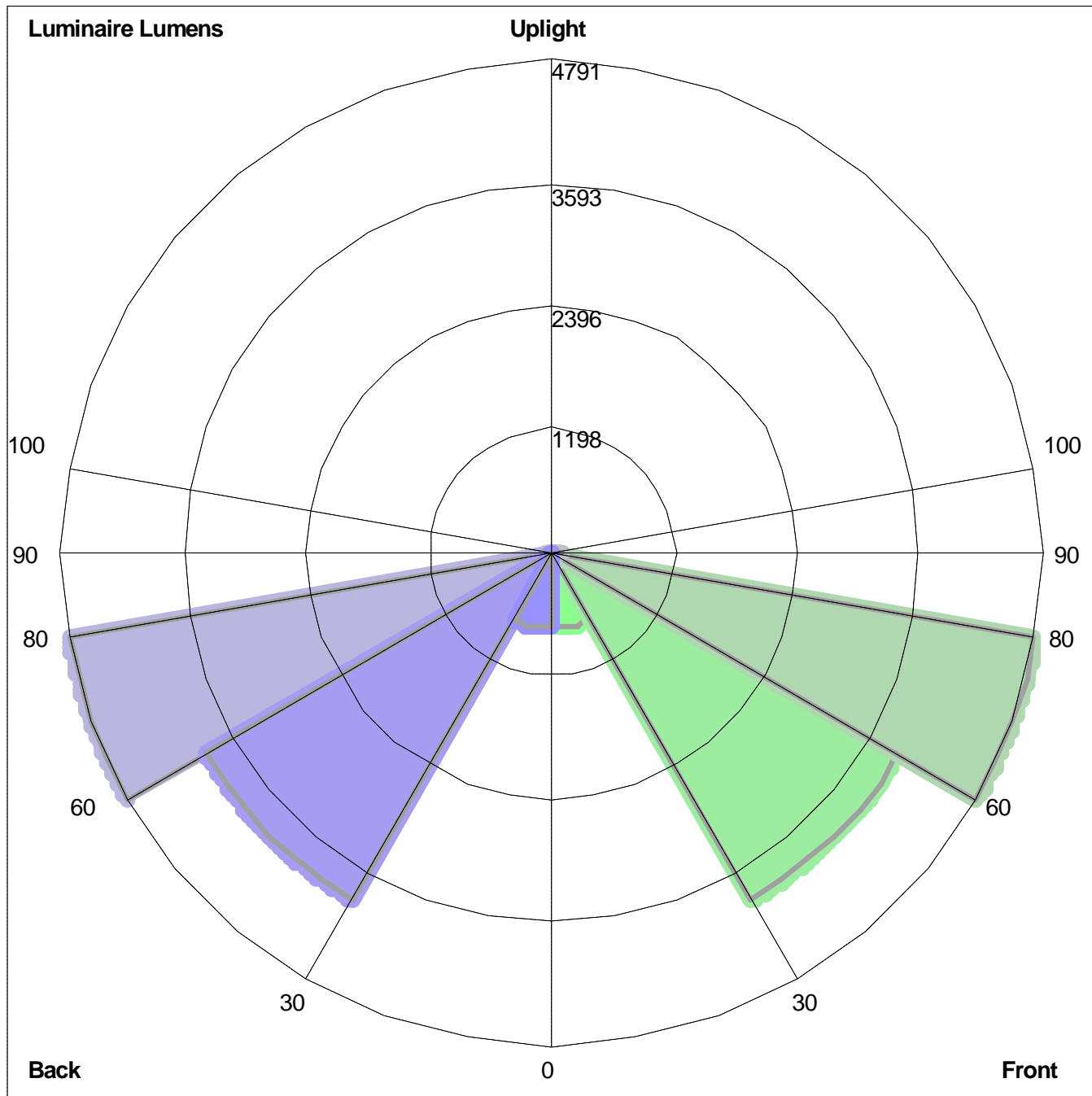


Maximum Candela = 10053.272 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=749.1, Medium=3905.7, High=4791.3, Very High=78.9
Back: Low=749.1, Medium=3905.7, High=4791.3, Very High=78.9
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2