



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-18-30.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-18-30

[_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	17716
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	156
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9349.366
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	9349.366
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	1092.568 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-5W-LED-18-30.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	696.6	N.A.	3.9
FM - Front-Medium (30-60)	3632.3	N.A.	20.5
FH - Front-High (60-80)	4455.9	N.A.	25.2
FVH - Front-Very High (80-90)	73.3	N.A.	0.4
BL - Back-Low (0-30)	696.6	N.A.	3.9
BM - Back-Medium (30-60)	3632.3	N.A.	20.5
BH - Back-High (60-80)	4455.9	N.A.	25.2
BVH - Back-Very High (80-90)	73.3	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	17716.2	N.A.	100.0
BUG Rating	B4-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-5W-LED-18-30.IES

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	1346.747	1346.747	1346.747	1346.747	1346.747	1346.747	1346.747	1346.747	1346.747	1346.747
2.5	1345.742	1349.761	1350.263	1352.272	1352.775	1351.268	1351.770	1350.765	1347.751	1348.254
5.0	1342.728	1347.751	1348.756	1352.272	1355.789	1353.779	1355.789	1355.789	1353.277	1354.282
7.5	1339.714	1343.230	1347.751	1353.277	1359.305	1360.310	1364.831	1366.840	1364.328	1365.333
10.0	1349.761	1351.268	1358.300	1365.835	1375.380	1378.394	1383.919	1386.431	1384.421	1385.426
12.5	1378.896	1382.412	1389.445	1396.980	1409.036	1414.059	1418.580	1417.073	1416.068	1417.575
15.0	1431.138	1434.654	1444.199	1456.255	1464.794	1466.804	1468.311	1463.790	1461.278	1462.283
17.5	1494.432	1498.450	1513.018	1532.107	1543.158	1541.651	1535.120	1526.581	1518.041	1519.046
20.0	1563.753	1570.786	1592.386	1620.517	1639.605	1639.605	1624.033	1601.428	1583.847	1581.335
22.5	1637.093	1645.633	1679.792	1719.978	1753.634	1754.639	1727.513	1687.829	1657.187	1648.145
25.0	1715.959	1728.518	1772.723	1829.486	1879.719	1886.751	1850.081	1791.811	1741.076	1723.494
27.5	1803.365	1817.932	1873.691	1949.040	2021.376	2034.939	1991.738	1910.361	1842.546	1810.397
30.0	1894.789	1912.370	1981.190	2081.153	2171.070	2195.182	2146.456	2044.985	1954.064	1912.370
32.5	1993.245	2010.325	2092.707	2216.280	2334.328	2365.472	2315.239	2194.680	2077.135	2017.860
35.0	2092.204	2112.298	2208.243	2357.937	2500.599	2550.832	2494.068	2349.900	2202.215	2130.382
37.5	2200.708	2226.327	2333.323	2508.134	2675.912	2751.764	2681.940	2519.687	2335.835	2244.913
40.0	2317.751	2348.895	2466.943	2663.856	2864.788	2956.714	2876.844	2691.986	2476.487	2366.979
42.5	2458.905	2485.529	2611.111	2831.634	3055.171	3158.149	3073.757	2869.309	2632.209	2510.143
45.0	2618.144	2646.274	2772.862	3012.975	3251.080	3364.606	3280.717	3055.673	2810.034	2673.400
47.5	2809.029	2840.174	2959.728	3205.870	3452.012	3577.594	3490.691	3255.098	2997.905	2852.230
50.0	3006.445	3035.580	3166.186	3410.318	3672.032	3803.140	3709.205	3463.063	3205.368	3044.622
52.5	3195.321	3225.461	3370.634	3621.799	3895.067	4029.691	3932.742	3686.098	3436.942	3245.052
55.0	3418.858	3444.979	3588.143	3837.801	4134.678	4281.359	4171.348	3902.602	3658.469	3459.044
57.5	3682.079	3710.209	3856.890	4083.943	4388.857	4554.626	4432.058	4150.251	3943.291	3738.842
60.0	3982.472	4022.659	4160.297	4367.257	4687.744	4868.582	4737.474	4466.216	4267.293	4053.803
62.5	4385.341	4423.016	4557.640	4716.879	5072.026	5297.070	5115.729	4824.377	4681.716	4479.779
65.0	4792.731	4832.917	4964.025	5159.431	5570.840	5866.210	5653.724	5297.572	5146.371	4971.058
67.5	5197.106	5260.400	5464.848	5734.097	6306.753	6743.780	6409.229	6001.839	5877.763	5650.208
70.0	5019.784	5118.743	5623.082	6256.018	7234.054	8220.128	7480.698	6696.059	6049.058	5413.108
72.5	3171.209	3396.253	4099.013	5459.322	7347.079	9349.366	7688.663	5740.627	4201.990	3379.676
75.0	1111.154	1186.001	1608.461	2803.001	5323.191	7923.754	5561.295	3008.454	1557.223	1082.019
77.5	324.003	332.542	434.515	770.574	1998.269	3930.732	2150.475	852.956	429.994	345.101
80.0	175.313	175.816	225.044	315.966	567.633	1092.568	640.471	382.775	241.118	206.458
82.5	80.875	83.387	111.015	163.760	276.282	430.497	302.905	187.871	116.038	111.015
85.0	45.712	47.721	59.275	78.363	124.076	190.383	120.057	79.368	58.773	64.801
87.5	24.112	24.614	30.642	39.182	49.731	61.284	44.707	31.647	25.117	24.112
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

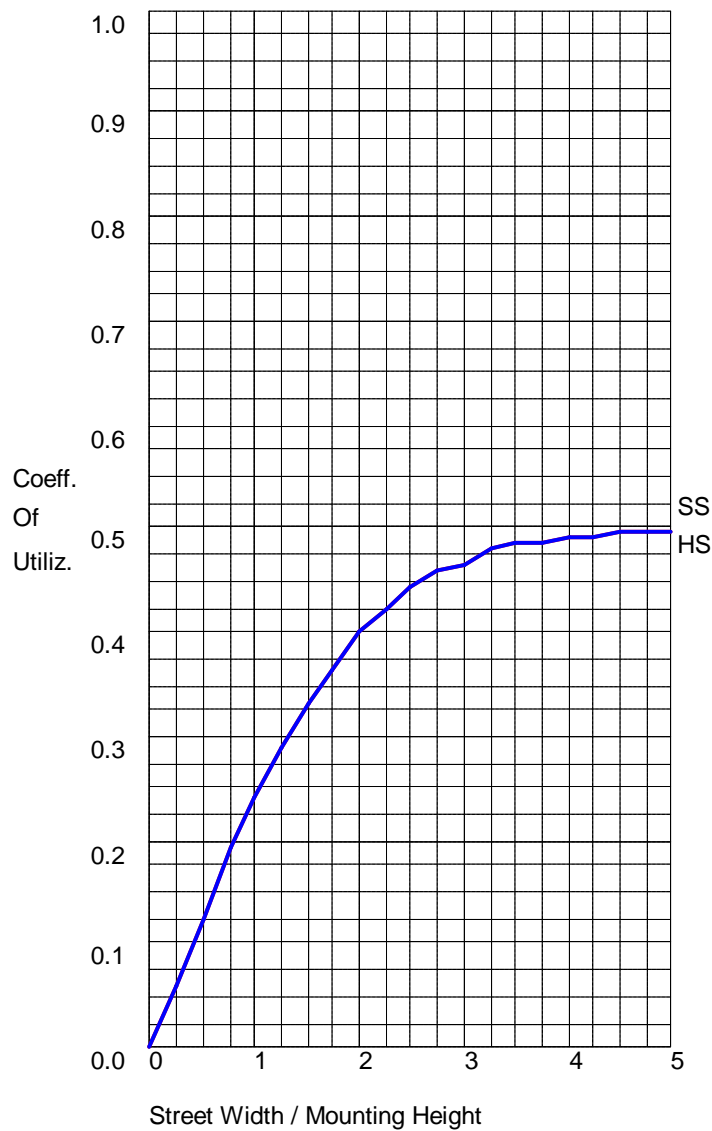
	<u>90</u>
0.0	1346.747
2.5	1346.244
5.0	1352.272
7.5	1362.821
10.0	1383.919
12.5	1416.068
15.0	1460.776
17.5	1515.530
20.0	1577.316
22.5	1646.135
25.0	1720.480
27.5	1806.379

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-5W-LED-18-30.IES

CANDELA TABULATION - (Cont.)

30.0	1904.333
32.5	2008.818
35.0	2116.819
37.5	2229.843
40.0	2357.937
42.5	2497.585
45.0	2660.842
47.5	2834.648
50.0	3026.538
52.5	3235.005
55.0	3433.426
57.5	3710.712
60.0	4019.645
62.5	4456.169
65.0	4948.955
67.5	5610.524
70.0	5339.266
72.5	3226.466
75.0	1063.433
77.5	341.082
80.0	200.430
82.5	108.001
85.0	62.289
87.5	23.107
90.0	0.000

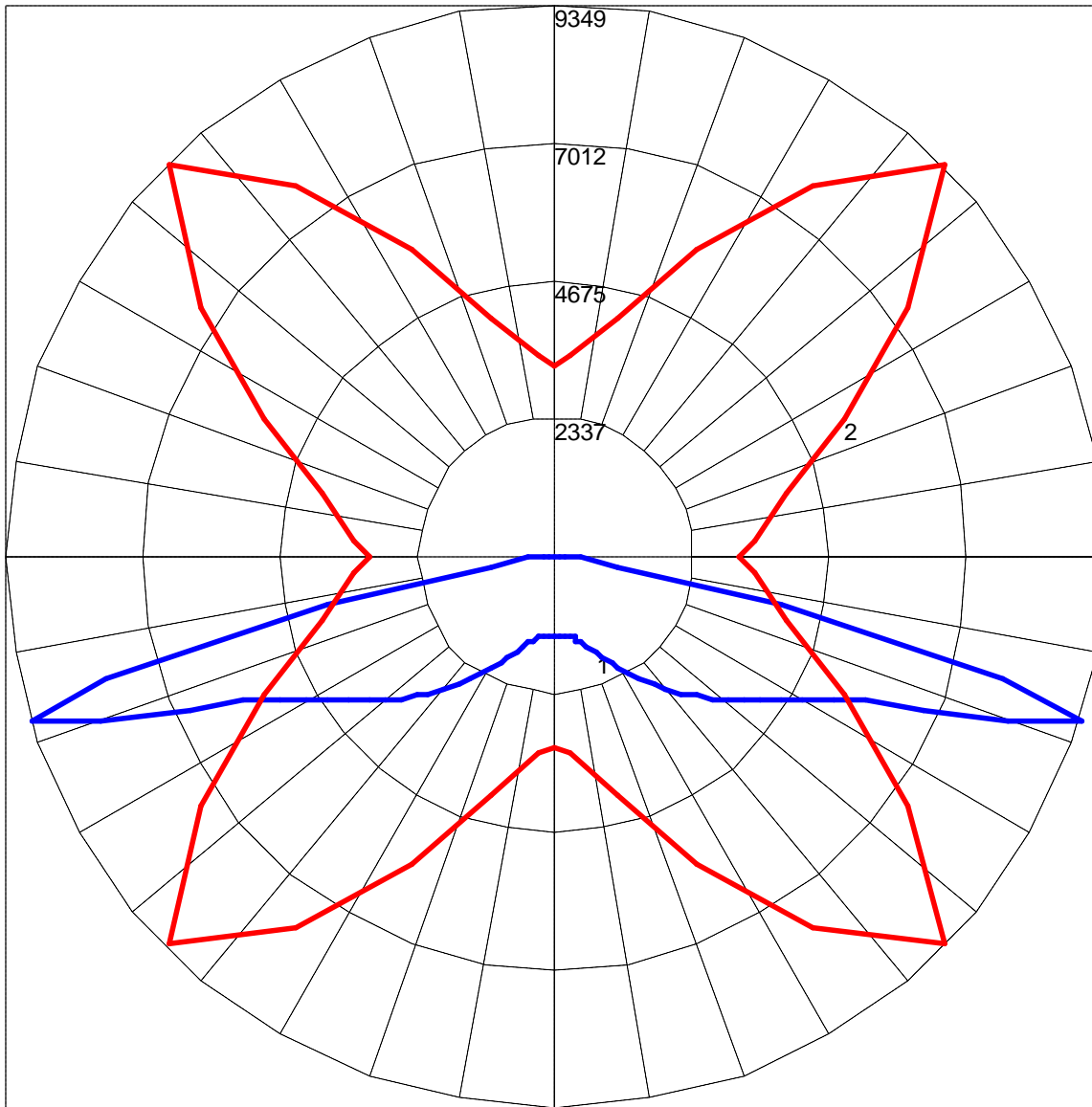
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

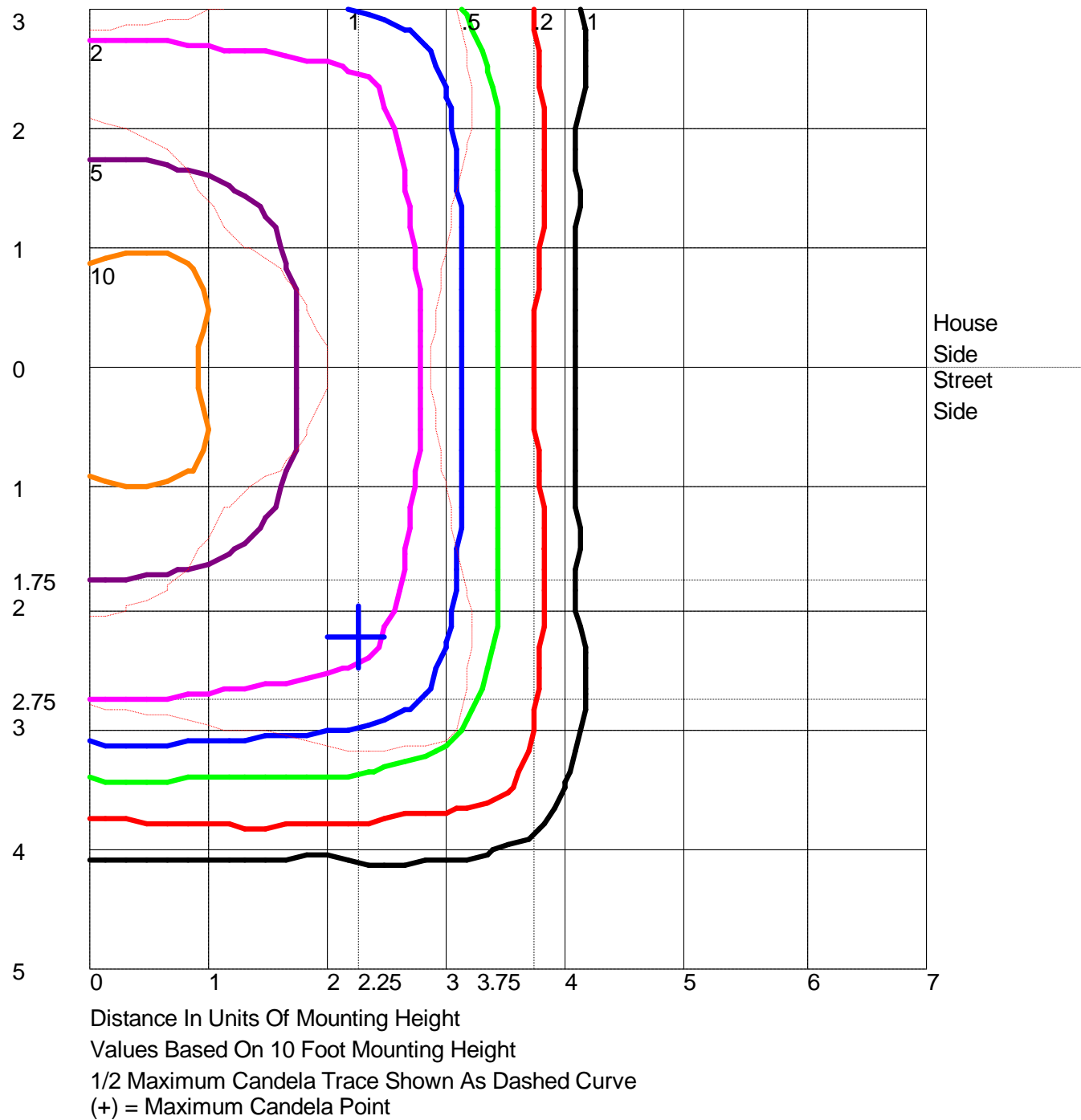
	Lumens	Percent Of Luminaire
Downward Street Side	8858.1	50.0
Downward House Side	8858.1	50.0
Downward Total	17716.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17716.2	100.0

POLAR GRAPH

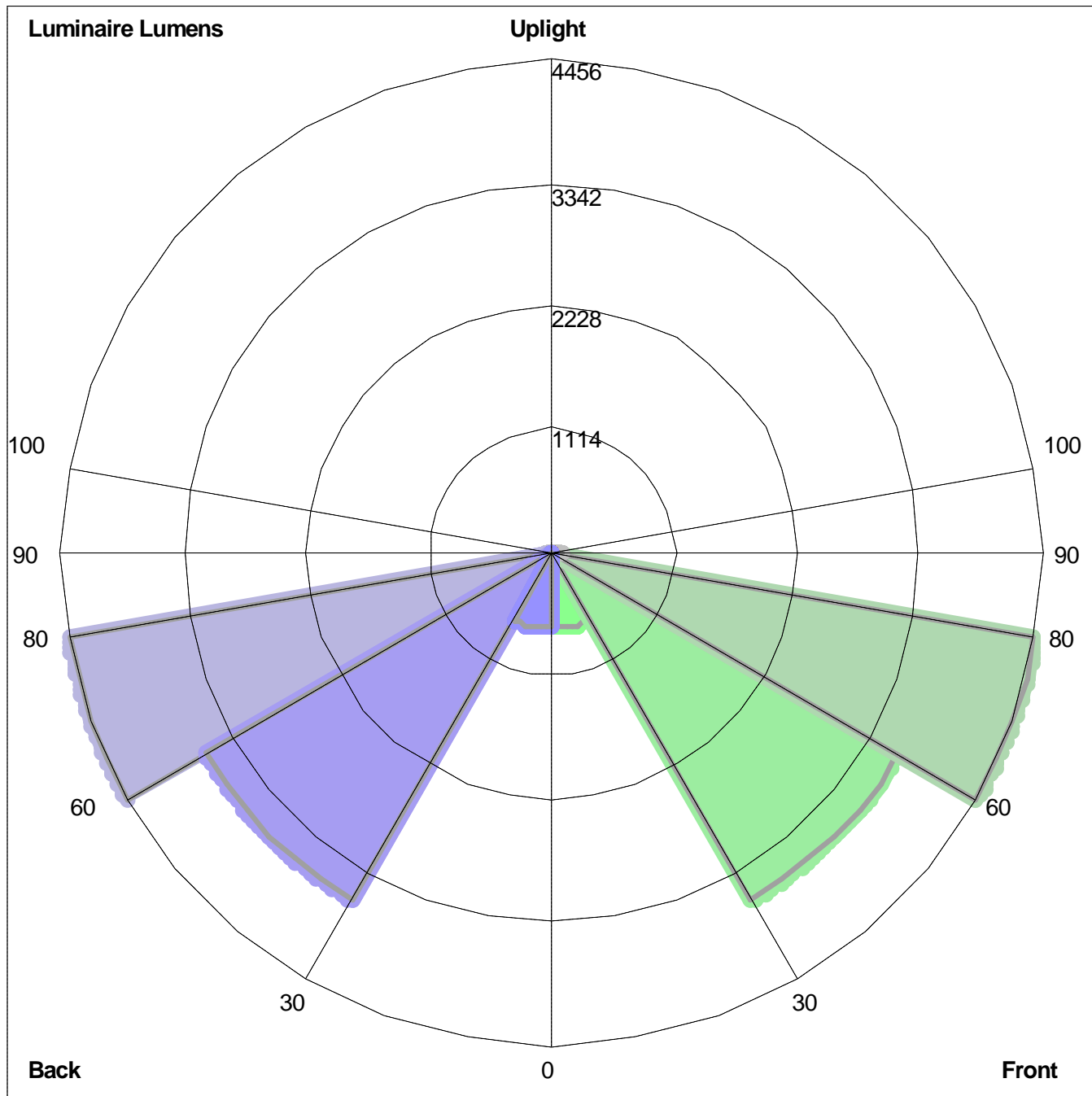


Maximum Candela = 9349.366 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=696.6, Medium=3632.3, High=4455.9, Very High=73.3
Back: Low=696.6, Medium=3632.3, High=4455.9, Very High=73.3
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2