



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-18-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7766
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]04/29/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-5W-LED-18-40-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11831
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	153.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10945
Maximum Candela Angle	50H 70V
Maximum Candela (<90 Degrees Vertical)	10945
Maximum Candela Angle (<90 Degrees Vertical)	50H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	309 (2.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	907.2	N.A.	7.7
FM - Front-Medium (30-60)	4807.0	N.A.	40.6
FH - Front-High (60-80)	4227.6	N.A.	35.7
FVH - Front-Very High (80-90)	36.7	N.A.	0.3
BL - Back-Low (0-30)	409.0	N.A.	3.5
BM - Back-Medium (30-60)	899.0	N.A.	7.6
BH - Back-High (60-80)	540.9	N.A.	4.6
BVH - Back-Very High (80-90)	3.4	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11830.8	N.A.	100.0
BUG Rating	B2-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>50</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280
2.5	1354	1350	1343	1339	1332	1327	1321	1320	1311	1297
5.0	1458	1454	1445	1437	1424	1410	1399	1392	1370	1340
7.5	1574	1570	1560	1547	1529	1508	1493	1480	1445	1399
10.0	1691	1688	1679	1669	1650	1625	1606	1588	1538	1473
12.5	1811	1809	1811	1796	1781	1756	1736	1713	1649	1563
15.0	1936	1934	1941	1946	1926	1904	1887	1857	1778	1667
17.5	2069	2070	2088	2096	2096	2080	2052	2016	1922	1784
20.0	2203	2212	2231	2254	2268	2258	2233	2191	2081	1914
22.5	2354	2350	2380	2418	2451	2451	2429	2381	2251	2047
25.0	2505	2501	2540	2593	2642	2656	2640	2598	2430	2183
27.5	2673	2671	2714	2779	2843	2874	2861	2820	2619	2321
30.0	2845	2842	2894	2970	3051	3097	3088	3036	2802	2461
32.5	3026	3024	3082	3164	3259	3334	3314	3251	2994	2605
35.0	3228	3234	3285	3365	3469	3554	3538	3464	3181	2756
37.5	3437	3445	3494	3572	3681	3776	3770	3677	3370	2921
40.0	3657	3665	3720	3786	3905	3995	3994	3894	3559	3081
42.5	3889	3899	3953	4026	4120	4211	4216	4116	3751	3247
45.0	4104	4114	4172	4252	4345	4437	4445	4338	3948	3428
47.5	4315	4322	4396	4467	4579	4697	4710	4578	4150	3617
50.0	4543	4538	4606	4685	4805	4960	4984	4837	4361	3830
52.5	4763	4753	4821	4911	5053	5253	5282	5129	4610	4073
55.0	4973	4964	5056	5183	5328	5597	5631	5473	4887	4351
57.5	5164	5165	5266	5452	5682	6046	6070	5892	5243	4684
60.0	5291	5301	5484	5773	6120	6598	6671	6434	5679	5102
62.5	5270	5294	5617	6119	6682	7347	7459	7162	6226	5571
65.0	5019	5040	5469	6284	7436	8551	8713	8282	7145	6386
67.5	3661	3686	4334	5740	7651	10370	10761	9976	8035	6914
70.0	1212	1138	1854	3669	6509	10174	10945	10091	7287	5535
72.5	299	309	392	921	3524	7759	8477	7534	4558	2917
75.0	180	184	201	272	746	3191	4193	3219	1656	992
77.5	107	107	118	143	240	655	1068	980	569	371
80.0	56	57	64	78	108	184	278	309	288	225
82.5	29	29	33	43	57	86	105	129	178	168
85.0	12	13	15	20	29	44	55	67	102	140
87.5	7	7	9	12	16	24	30	41	73	120
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280
2.5	1288	1284	1279	1261	1258	1251	1244	1239	1234	1231
5.0	1314	1301	1288	1254	1233	1210	1189	1173	1158	1148
7.5	1353	1332	1308	1255	1215	1175	1138	1107	1085	1064
10.0	1407	1375	1341	1265	1205	1146	1093	1050	1020	995
12.5	1478	1432	1381	1280	1198	1122	1056	1004	965	941
15.0	1555	1494	1432	1300	1195	1104	1027	973	929	902
17.5	1640	1562	1485	1322	1196	1094	1014	954	872	758
20.0	1728	1633	1539	1349	1203	1093	1011	859	619	496
22.5	1817	1702	1592	1382	1219	1106	954	601	451	408
25.0	1909	1775	1648	1418	1246	1127	726	459	406	387
27.5	2005	1853	1712	1461	1286	1058	525	418	395	373

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CANDELA TABULATION - (Cont.)

30.0	2107	1940	1786	1516	1332	824	445	410	386	362
32.5	2215	2035	1869	1585	1381	606	427	405	377	348
35.0	2333	2140	1961	1665	1336	489	425	401	368	335
37.5	2461	2259	2071	1758	1151	458	424	397	359	322
40.0	2611	2395	2202	1873	916	459	426	396	347	283
42.5	2761	2553	2343	2000	698	465	431	390	290	220
45.0	2943	2727	2507	2137	575	475	437	337	214	172
47.5	3135	2917	2707	2237	550	489	430	248	164	142
50.0	3344	3127	2909	2152	565	502	361	178	135	120
52.5	3589	3374	3151	1909	588	513	252	138	115	104
55.0	3881	3665	3430	1596	616	467	171	116	99	89
57.5	4211	3994	3753	1313	652	328	129	100	85	73
60.0	4620	4399	4178	1168	708	197	109	86	68	56
62.5	5094	4895	4636	1232	724	127	92	69	53	53
65.0	5825	5625	5318	1370	626	96	76	63	65	95
67.5	6219	6008	5610	1364	552	103	95	166	117	132
70.0	4752	4638	4045	999	462	128	144	152	123	220
72.5	2368	2349	1683	351	239	129	131	199	219	235
75.0	771	753	464	124	96	55	136	217	137	82
77.5	273	245	146	59	38	23	85	89	20	5
80.0	174	145	86	33	14	6	17	8	1	0
82.5	122	92	55	13	4	2	4	1	0	0
85.0	79	53	25	1	1	1	1	0	0	0
87.5	46	19	3	1	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

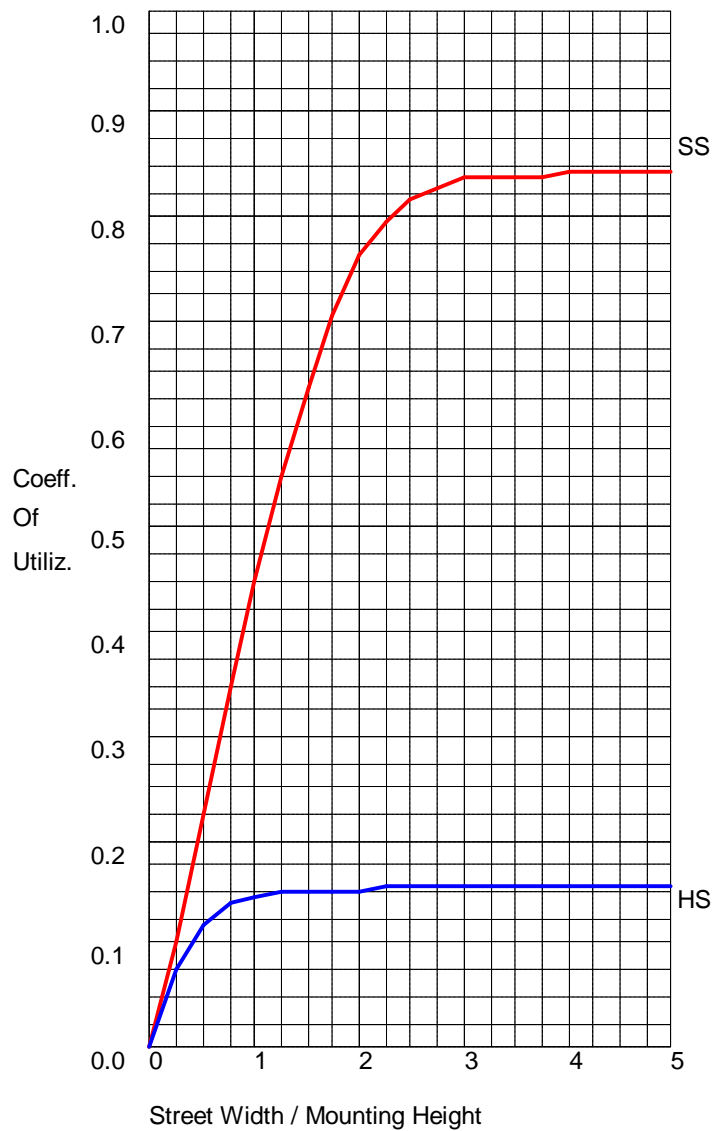
	175	180
0.0	1280	1280
2.5	1223	1221
5.0	1137	1135
7.5	1056	1052
10.0	983	979
12.5	929	924
15.0	887	883
17.5	705	697
20.0	465	460
22.5	394	391
25.0	377	374
27.5	362	359
30.0	347	344
32.5	331	328
35.0	317	313
37.5	298	294
40.0	250	247
42.5	196	195
45.0	159	158
47.5	134	134
50.0	115	116
52.5	99	98
55.0	84	83
57.5	66	65
60.0	50	49
62.5	55	52
65.0	83	69

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CANDELA TABULATION - (Cont.)

67.5	101	85
70.0	172	156
72.5	147	130
75.0	45	32
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

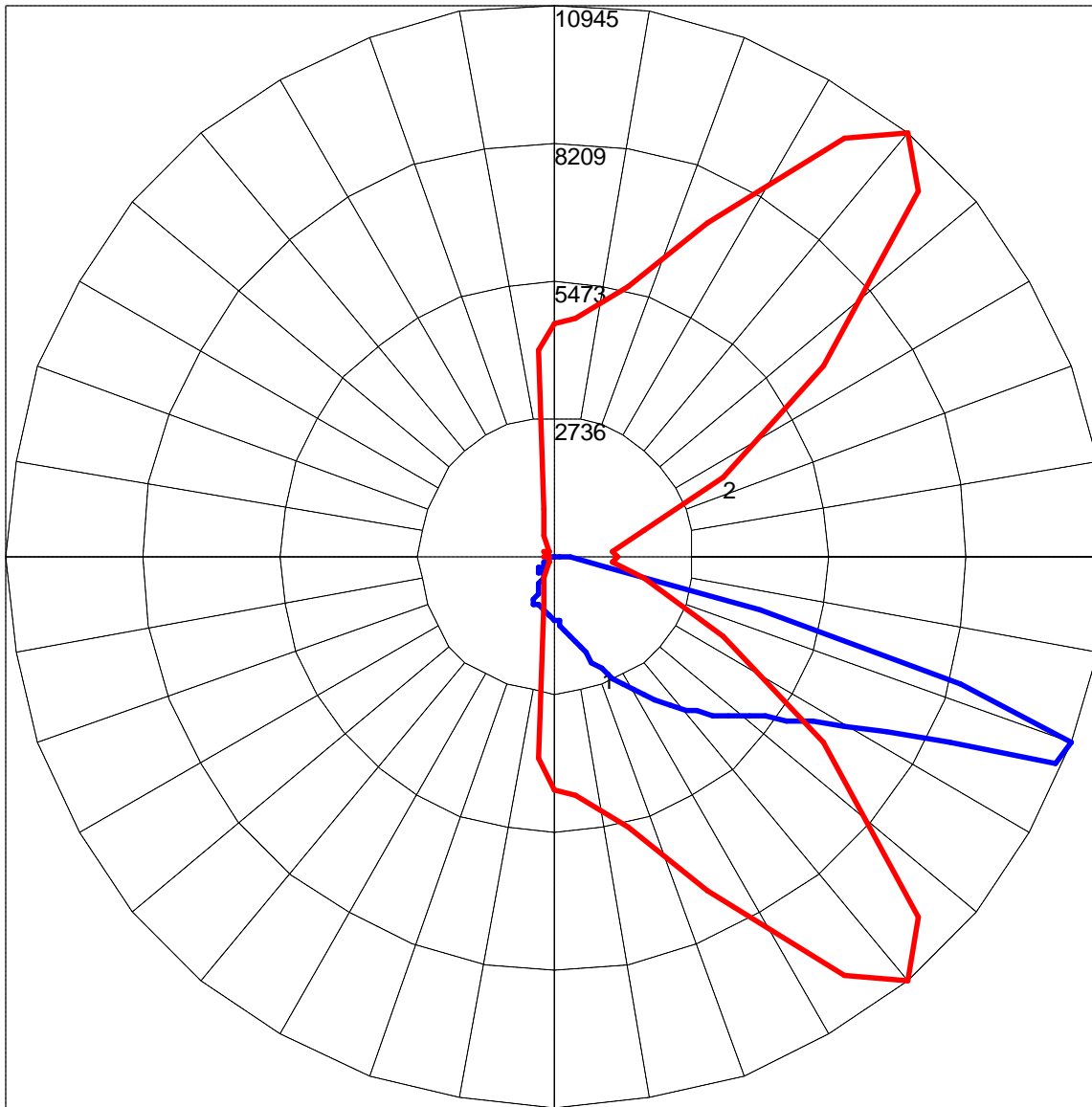
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

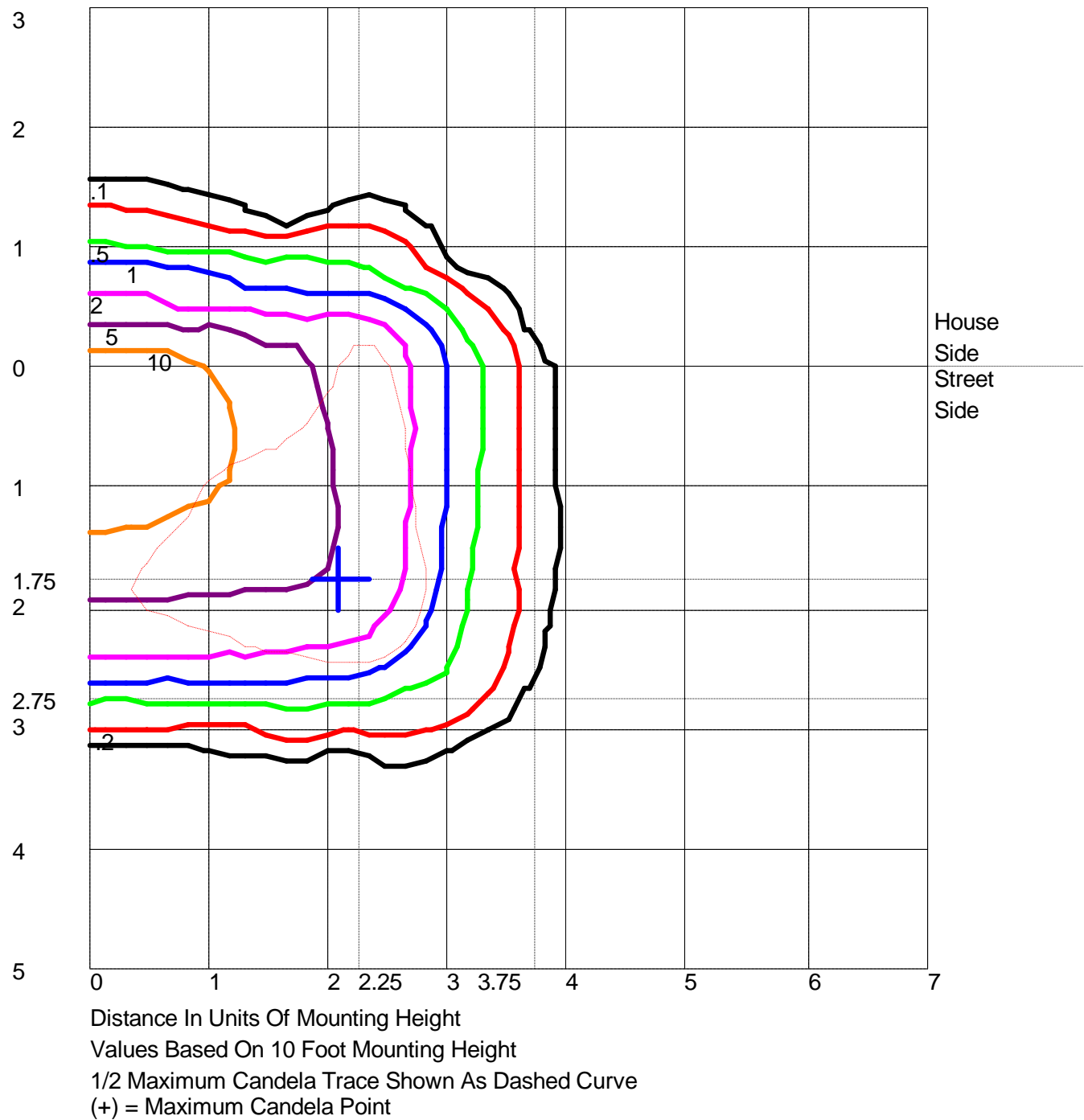
	Lumens	Percent Of Luminaire
Downward Street Side	9978.5	84.3
Downward House Side	1852.3	15.7
Downward Total	11830.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11830.8	100.0

POLAR GRAPH

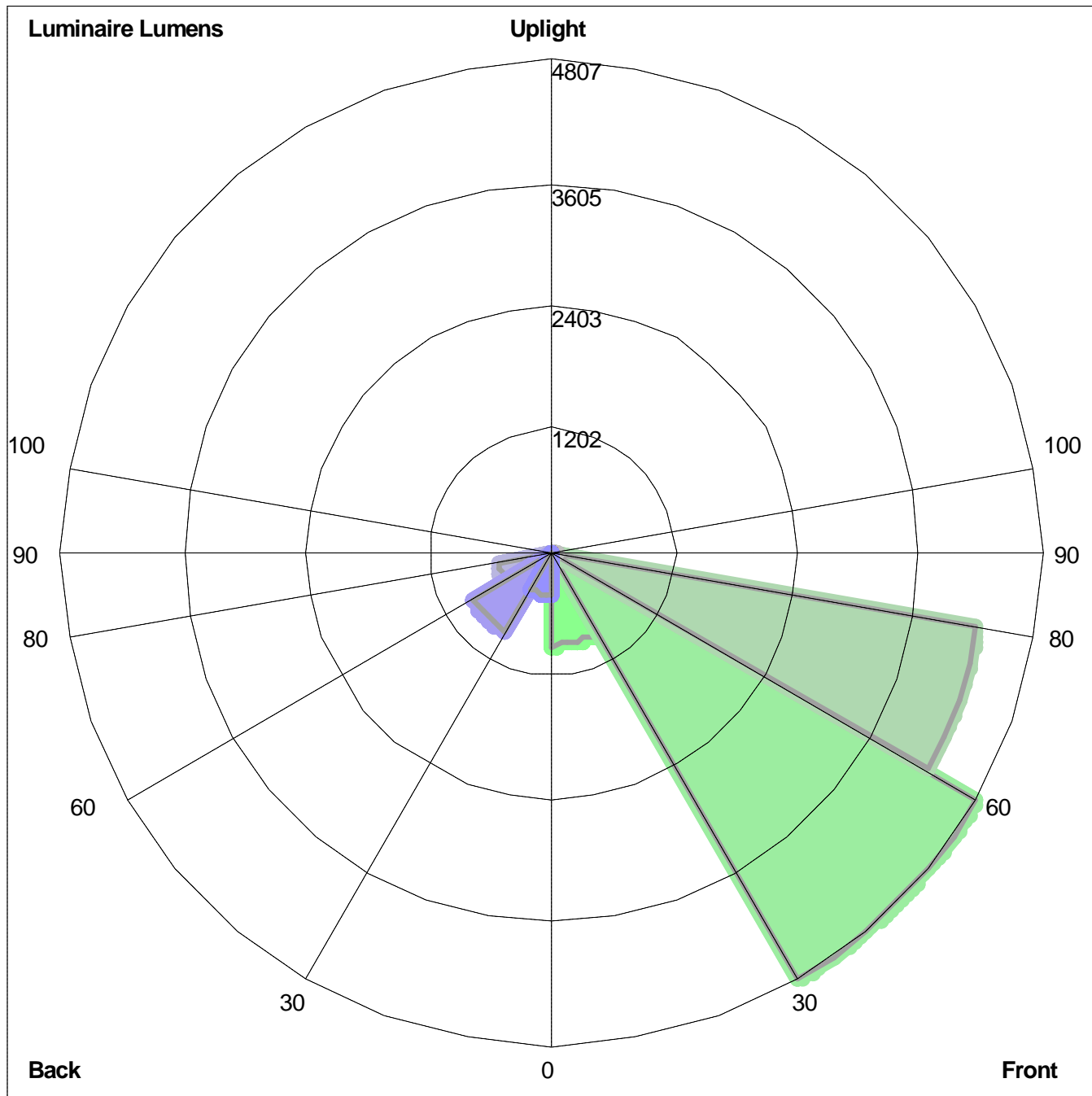


Maximum Candela = 10945 Located At Horizontal Angle = 50, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=907.2, Medium= 4807.0, High=4227.6, Very High=36.7
Back: Low=409.0, Medium=899.0, High=540.9, Very High=3.4
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2