



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-3-LED-35-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7770
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]11/21/16
[TESTDATE]05/02/16
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XMR-3-LED-35-50-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29073
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	313.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	30479
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	30479
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3052 (10.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1465.6	N.A.	5.0
FM - Front-Medium (30-60)	12583.1	N.A.	43.3
FH - Front-High (60-80)	11895.5	N.A.	40.9
FVH - Front-Very High (80-90)	327.8	N.A.	1.1
BL - Back-Low (0-30)	802.7	N.A.	2.8
BM - Back-Medium (30-60)	1572.9	N.A.	5.4
BH - Back-High (60-80)	414.7	N.A.	1.4
BVH - Back-Very High (80-90)	10.3	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	29072.6	N.A.	100.0
BUG Rating	B2-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	2901	2901	2901	2901	2901	2901	2901	2901	2901	2901
2.5	3054	3033	3033	3029	3013	3017	3007	2993	2988	2958
5.0	2960	2942	2949	2965	2987	3024	3052	3052	3060	3042
7.5	2805	2790	2805	2835	2874	2943	3008	3021	3062	3084
10.0	2664	2653	2674	2719	2775	2856	2937	2955	3017	3085
12.5	2567	2556	2584	2636	2699	2778	2885	2907	2983	3084
15.0	2533	2527	2559	2615	2683	2763	2879	2908	2993	3116
17.5	2563	2561	2601	2671	2761	2852	2972	3015	3124	3240
20.0	2696	2686	2744	2823	2948	3084	3226	3286	3399	3478
22.5	2965	2953	3014	3138	3280	3465	3667	3693	3765	3756
25.0	3403	3386	3456	3600	3761	3986	4179	4191	4190	4074
27.5	4006	3987	4073	4227	4400	4641	4797	4769	4682	4425
30.0	4695	4683	4800	5009	5187	5405	5494	5434	5229	4822
32.5	5464	5438	5624	5823	6072	6272	6274	6179	5841	5269
35.0	6243	6229	6439	6691	7016	7268	7142	7013	6559	5747
37.5	6991	6980	7265	7608	8012	8287	8095	7925	7306	6238
40.0	7726	7766	8106	8574	9060	9391	9124	8901	8084	6752
42.5	8554	8657	9042	9649	10332	10578	10188	9908	8854	7243
45.0	9641	9791	10252	10968	11708	11898	11267	11025	9625	7690
47.5	11134	11177	11743	12556	13271	13206	12323	11995	10347	8170
50.0	12511	12563	13245	14402	15176	14814	13310	12904	11081	8732
52.5	13854	13899	14493	15836	16892	16167	14607	13749	11855	9437
55.0	16012	16035	16733	17724	18602	17700	15551	14857	12672	10330
57.5	18354	18453	19080	20075	20428	19026	16440	15747	13904	11472
60.0	19942	20087	20832	22021	22966	20574	17467	16784	15060	13332
62.5	18651	18467	20109	22574	24779	23309	19348	18482	16805	15623
65.0	10384	9805	13512	18884	24788	25877	22627	21814	19214	17383
67.5	3216	3304	4829	10317	19710	27078	27251	26705	22160	17845
70.0	2101	2143	2585	4120	10154	23460	30479	29987	23856	15867
72.5	1386	1434	1784	2839	4727	14137	28085	28737	21483	9264
75.0	939	978	1243	2088	3353	6496	18588	19537	12533	3546
77.5	665	700	899	1687	2620	3840	8247	8702	4037	1533
80.0	404	426	606	1318	2076	2512	3052	3006	2032	898
82.5	262	271	420	1023	1393	1599	1447	1333	1097	515
85.0	176	185	310	829	1063	756	572	571	513	303
87.5	109	121	226	633	492	228	182	173	185	162
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	2901	2901	2901	2901	2901	2901	2901	2901	2901	2901
2.5	2937	2940	2923	2890	2851	2821	2788	2760	2731	2708
5.0	2991	2975	2932	2826	2703	2594	2482	2388	2315	2263
7.5	3035	2996	2922	2718	2501	2303	2167	2067	2001	1959
10.0	3067	3006	2894	2586	2283	2085	1977	1909	1847	1795
12.5	3103	3028	2875	2455	2134	1990	1877	1761	1671	1597
15.0	3159	3069	2864	2339	2062	1931	1760	1622	1541	1483
17.5	3284	3165	2907	2278	2049	1866	1672	1550	1461	1416
20.0	3469	3305	2964	2265	2051	1831	1644	1521	1427	1379
22.5	3664	3466	3029	2276	2042	1817	1664	1514	1403	1331
25.0	3851	3581	3066	2288	2036	1831	1691	1514	1379	1273
27.5	4054	3679	3097	2284	2023	1859	1704	1509	1283	1090

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CANDELA TABULATION - (Cont.)

30.0	4255	3779	3134	2266	2019	1878	1700	1411	1099	926
32.5	4481	3895	3185	2239	2008	1868	1645	1236	1001	961
35.0	4725	4020	3231	2201	1979	1830	1483	1136	1079	1199
37.5	4971	4155	3276	2150	1925	1737	1321	1127	1293	1545
40.0	5227	4295	3328	2091	1855	1539	1244	1126	1487	1422
42.5	5486	4435	3387	2024	1755	1357	1144	1133	1350	973
45.0	5762	4592	3475	1966	1604	1206	1014	983	1172	687
47.5	6097	4825	3598	1909	1331	983	839	807	1012	584
50.0	6504	5132	3774	1833	1033	727	636	660	878	536
52.5	7021	5519	4036	1708	735	534	471	525	758	508
55.0	7507	5872	4309	1554	548	435	376	424	556	512
57.5	7904	6288	4561	1460	493	385	321	340	411	470
60.0	8861	6999	4496	1304	468	347	261	290	256	358
62.5	10862	7813	4024	1022	431	293	242	188	164	305
65.0	12833	7859	3042	745	343	242	209	129	123	265
67.5	12489	6190	1869	491	248	203	137	93	120	227
70.0	8682	3243	995	311	175	124	79	83	81	176
72.5	3862	1437	492	224	136	79	64	60	57	129
75.0	1360	641	312	166	92	59	45	48	39	97
77.5	763	369	231	120	54	42	30	36	14	52
80.0	450	247	167	83	39	26	15	12	8	23
82.5	288	165	115	51	22	15	12	6	2	0
85.0	169	94	72	28	13	11	8	4	1	0
87.5	85	41	36	13	12	13	10	5	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

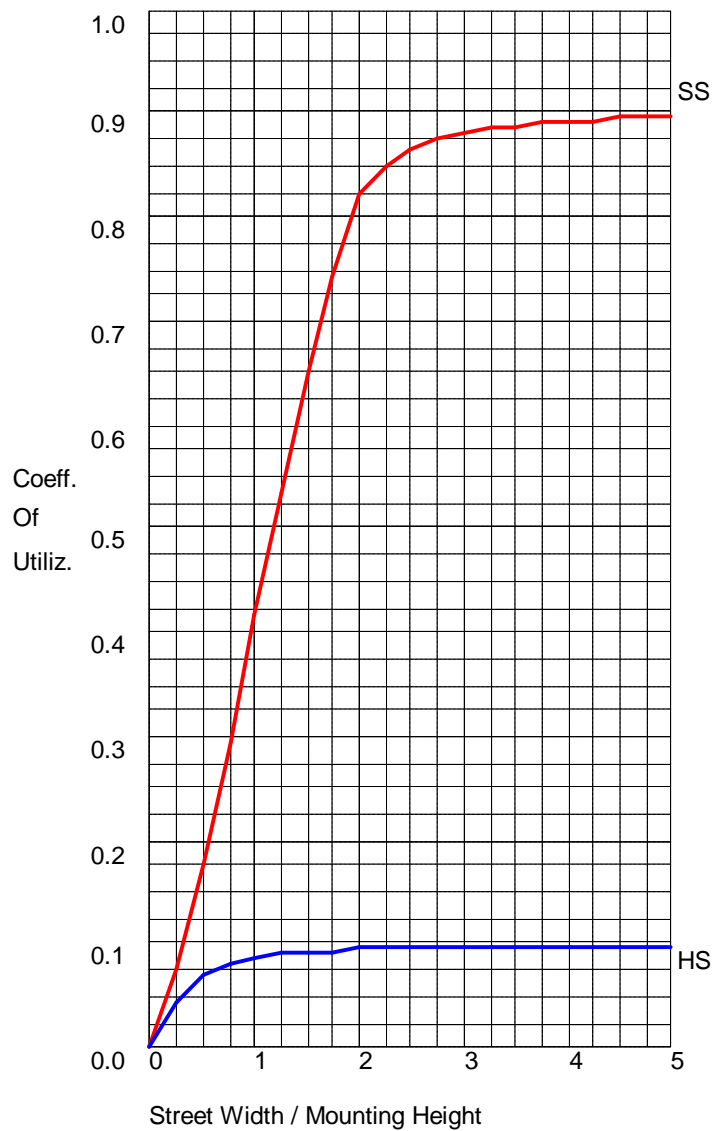
	<u>175.0</u>	<u>180.0</u>
0.0	2901	2901
2.5	2689	2668
5.0	2231	2207
7.5	1929	1924
10.0	1759	1752
12.5	1570	1562
15.0	1462	1454
17.5	1400	1392
20.0	1358	1349
22.5	1305	1297
25.0	1219	1206
27.5	1018	1005
30.0	869	860
32.5	949	933
35.0	1207	1166
37.5	1359	1261
40.0	899	813
42.5	588	551
45.0	483	457
47.5	431	407
50.0	395	370
52.5	365	339
55.0	405	377
57.5	347	314
60.0	287	248
62.5	277	240
65.0	294	259

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CANDELA TABULATION - (Cont.)

67.5	267	233
70.0	222	198
72.5	174	159
75.0	129	117
77.5	63	61
80.0	26	25
82.5	3	4
85.0	0	0
87.5	0	0
90.0	0	0

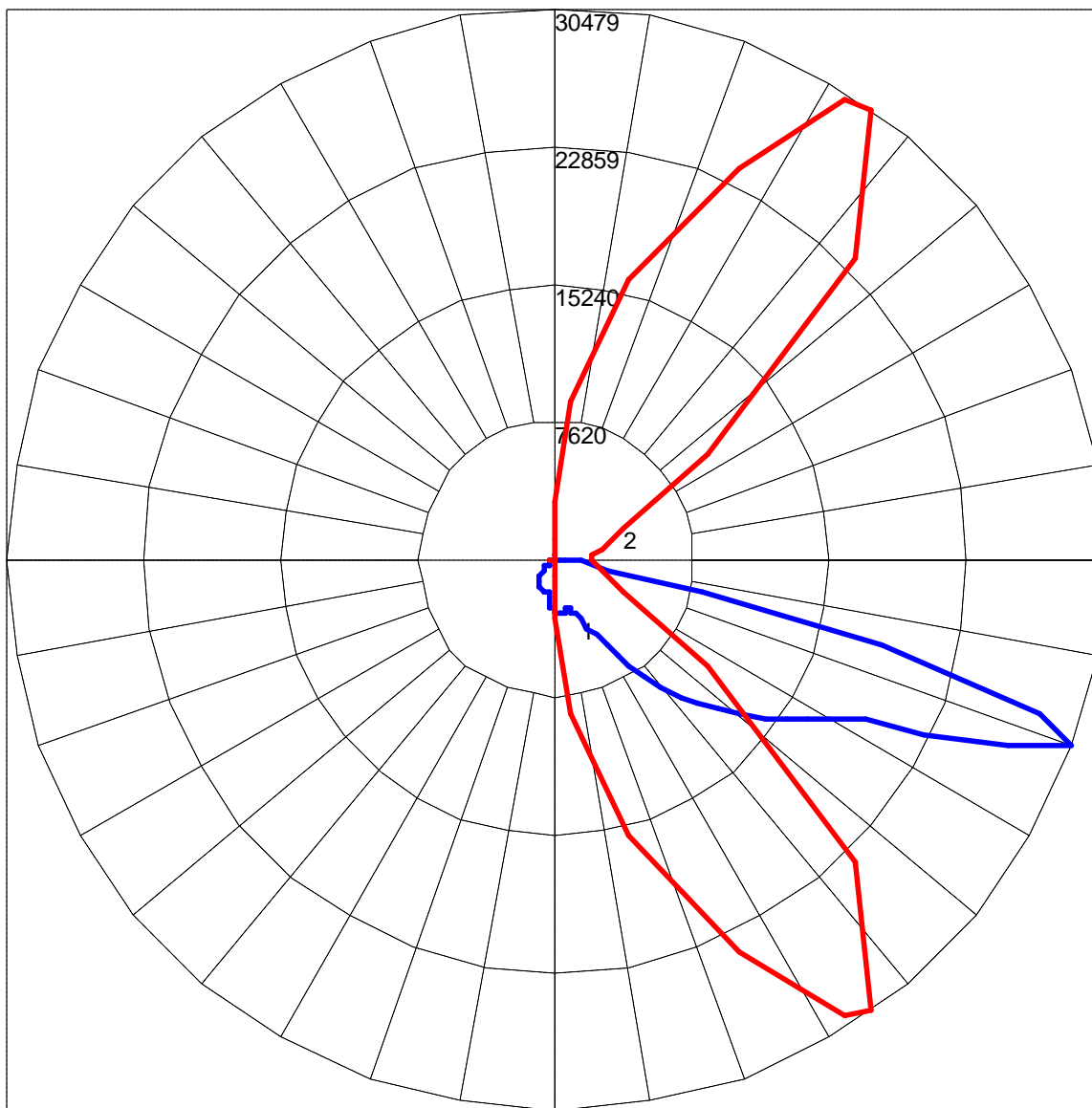
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

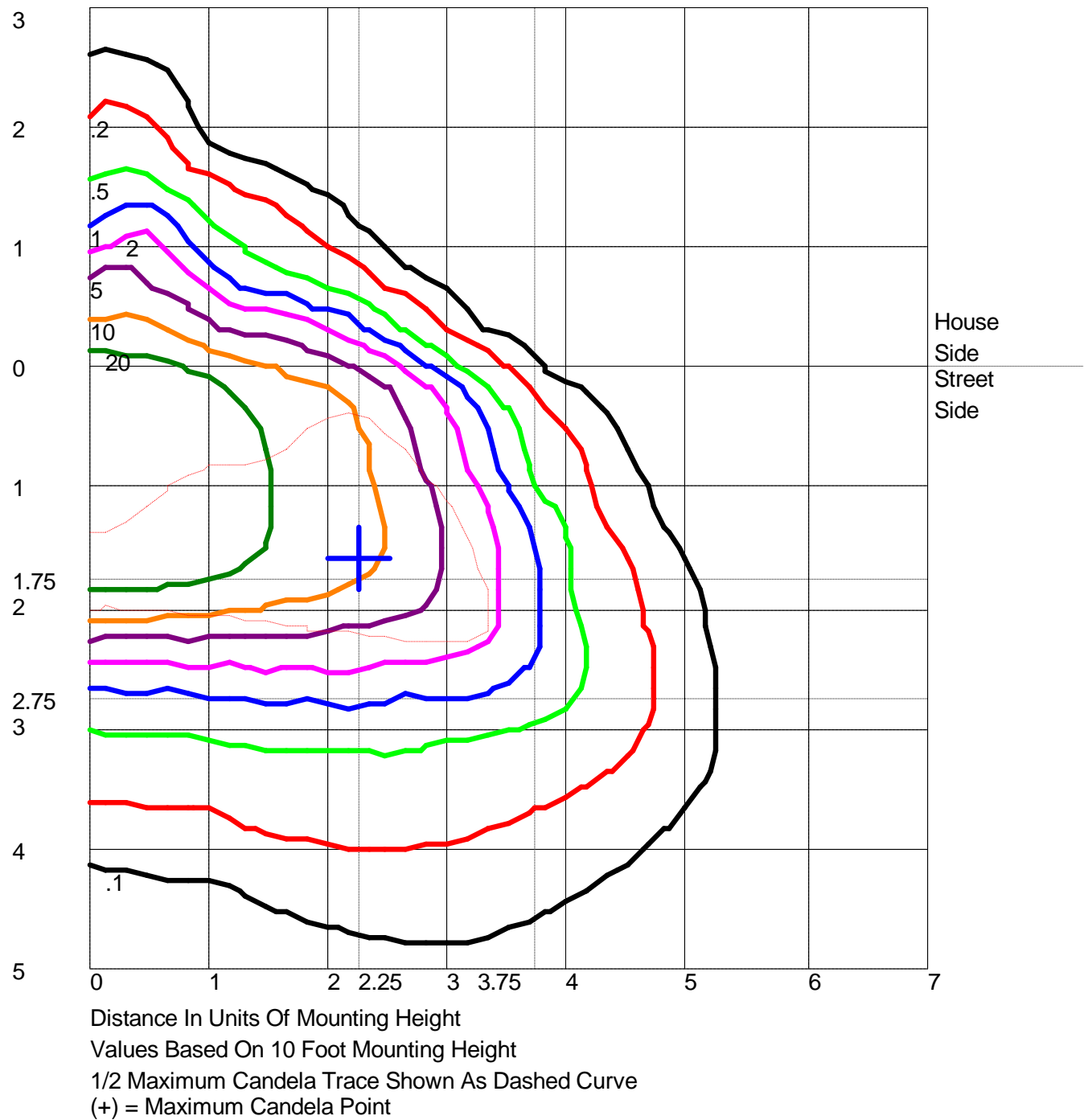
	Lumens	Percent Of Luminaire
Downward Street Side	26272.1	90.4
Downward House Side	2800.6	9.6
Downward Total	29072.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29072.6	100.0

POLAR GRAPH

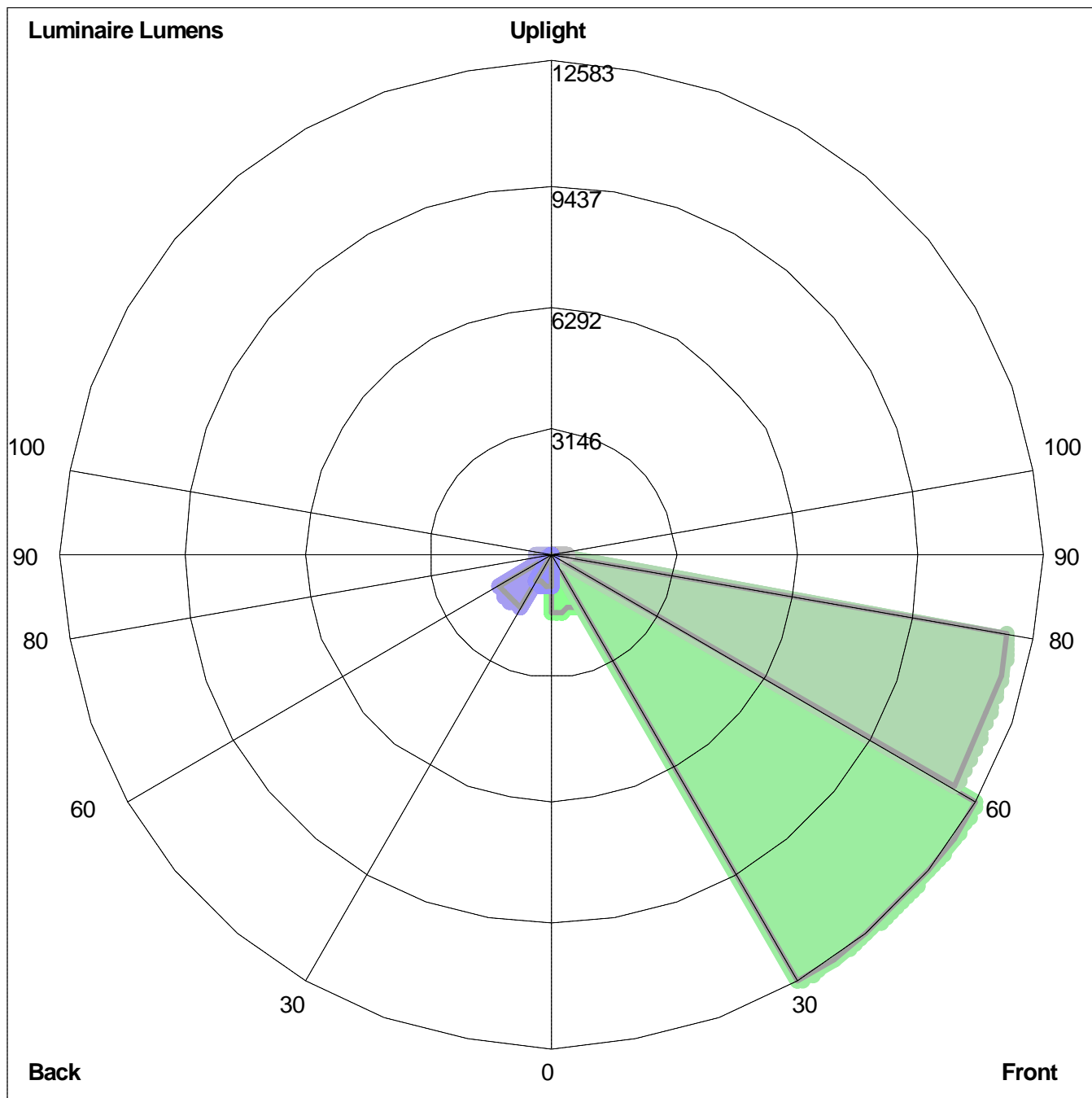


Maximum Candela = 30479 Located At Horizontal Angle = 55, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1465.6, Medium=12583.1, High=11895.5, Very High=327.8
Back: Low=802.7, Medium=1572.9, High=414.7, Very High=10.3
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4