



IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-HO-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7593
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/25/16
[TEST DATE]02/24/16
[MANUFACT]LSI INDUSTRIES, INC
[LUMCAT]XLCL-FTA-LED-HO-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]57718
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	57718
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	532.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	47232
Maximum Candela Angle	12.5H 35V
Maximum Candela (<90 Degrees Vertical)	47232
Maximum Candela Angle (<90 Degrees Vertical)	12.5H 35V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1026 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	9695.6	N.A.	16.8
FM - Front-Medium (30-60)	32104.2	N.A.	55.6
FH - Front-High (60-80)	5070.5	N.A.	8.8
FVH - Front-Very High (80-90)	113.5	N.A.	0.2
BL - Back-Low (0-30)	4533.0	N.A.	7.9
BM - Back-Medium (30-60)	4686.9	N.A.	8.1
BH - Back-High (60-80)	1472.3	N.A.	2.6
BVH - Back-Very High (80-90)	41.7	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	57717.7	N.A.	100.0
BUG Rating	B4-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>12.5</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	17681	17681	17681	17681	17681	17681	17681	17681	17681	17681
2.5	18097	17896	18027	18081	17965	17817	17830	17754	17746	17762
5.0	18588	18420	18527	18595	18431	18252	18153	18069	18046	18003
7.5	19177	19032	19126	19253	19035	18813	18826	18736	18751	18546
10.0	19962	19815	19845	20025	19884	19770	19830	19690	19607	19255
12.5	20724	20548	20736	20840	20765	20578	20547	20363	20030	19572
15.0	21683	21468	21738	21802	21693	21218	20945	20598	20155	19683
17.5	23062	22869	23082	23118	22716	21831	21247	20660	20305	19821
20.0	25414	25350	25255	25208	24149	22683	21699	20704	20268	19914
22.5	28411	28413	28259	27994	26381	24406	22573	20845	20312	19936
25.0	31985	31969	31774	31446	29027	26565	23673	21080	20077	19770
27.5	36757	36779	36282	35715	32379	29311	25219	21589	19890	19576
30.0	42802	42351	41811	41128	37217	32786	27200	22572	19942	19385
32.5	46493	46297	46045	45546	42204	36934	29659	23907	19952	19049
35.0	47174	47142	47232	47218	45862	41306	32953	25484	20185	18714
37.5	46498	46391	46601	46700	46468	44210	37014	27456	20716	18405
40.0	44719	44775	45070	45153	45458	44711	40538	29891	21326	17948
42.5	41893	41973	42641	43051	43871	43861	42437	33216	22303	17691
45.0	37119	37214	38336	38989	41238	42323	42076	36221	23540	17541
47.5	30800	30476	32226	33112	36605	39820	40685	37982	24980	17209
50.0	24114	23815	25435	26335	30293	35456	38476	37936	26930	16923
52.5	18987	18643	19617	20247	23613	29129	35016	36016	28996	16589
55.0	14868	14851	15633	16090	17858	22309	29548	33335	29904	15961
57.5	10207	10714	11607	12262	14252	16888	23235	29954	29373	15806
60.0	3463	3787	4739	5607	9733	13176	17184	25023	27424	15878
62.5	1639	1584	1638	1716	3113	8665	12703	18669	24362	15899
65.0	969	968	1013	1038	1310	2653	9075	13051	20199	15040
67.5	756	780	764	765	782	1089	3072	8620	14639	13691
70.0	791	809	823	819	751	705	1001	4655	9382	11804
72.5	570	576	601	614	757	757	677	1112	5376	8974
75.0	545	558	508	489	468	570	747	624	2574	5724
77.5	557	565	574	588	592	495	484	643	592	2743
80.0	369	367	358	365	384	500	577	388	414	982
82.5	274	285	285	291	297	326	353	478	261	248
85.0	118	129	129	135	153	181	229	239	231	112
87.5	38	39	42	43	50	57	65	71	69	49
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	17681	17681	17681	17681	17681	17681	17681	17681	17681	17681
2.5	17727	17716	17664	17522	17594	17463	17516	17460	17517	17508
5.0	17858	17775	17643	17461	17509	17360	17350	17310	17284	17261
7.5	18353	18160	17962	17690	17641	17353	17310	17185	17144	17160
10.0	18945	18700	18429	17892	17623	17353	17186	17110	17029	17046
12.5	19081	18765	18369	17613	17333	17098	16970	16641	16038	15444
15.0	19056	18687	18157	17255	17104	16918	16391	14429	12618	11273
17.5	19098	18614	18008	17049	16952	16450	13994	10795	7956	6032
20.0	19086	18555	17829	16897	16825	14820	10477	6470	3495	2081
22.5	19101	18499	17612	16806	16498	12367	6656	2721	1246	962
25.0	18910	18238	17351	16615	15274	9183	3152	1165	925	870
27.5	18659	18000	17045	16371	13417	5829	1277	910	856	804

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CANDELA TABULATION - (Cont.)

30.0	18472	17726	16782	16071	11088	2897	822	787	777	836
32.5	18181	17273	16417	15548	8289	1228	713	715	846	1054
35.0	17587	16667	15995	14803	5702	793	658	805	1128	1529
37.5	16796	15986	15531	13767	3491	726	689	1094	1658	1946
40.0	16171	15453	15042	12349	2043	693	879	1575	2066	2089
42.5	16010	15233	14589	10514	1492	693	1242	1941	2331	2380
45.0	16057	15105	14254	8383	1314	825	1724	2127	2583	2747
47.5	15960	14865	13700	6265	1204	1075	2062	2457	2832	3148
50.0	15278	14116	12935	4155	1055	1555	2336	2843	3188	3366
52.5	14287	13226	12049	2534	979	2001	2704	3234	3388	3367
55.0	13387	12351	11136	1448	1062	2245	3064	3477	3321	3030
57.5	12295	11188	10213	868	1405	2600	3351	3428	2856	2451
60.0	11010	9908	9123	604	1760	2952	3446	2919	2199	1830
62.5	9788	9079	7699	528	2047	3267	3116	2164	1590	1377
65.0	8483	7836	5976	567	2411	3323	2432	1588	1189	995
67.5	7143	6358	4527	697	2814	2823	1724	1131	771	625
70.0	5643	5002	3055	918	2909	2090	1185	675	434	394
72.5	4414	3878	1862	1176	2465	1415	679	372	322	306
75.0	2874	2394	886	1282	1673	804	330	272	246	219
77.5	1770	1223	381	1146	887	323	239	183	158	138
80.0	1026	587	208	674	316	187	148	112	86	77
82.5	561	280	153	275	135	104	82	73	63	58
85.0	183	98	80	79	65	56	56	52	49	45
87.5	38	33	32	28	28	27	24	23	18	16
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

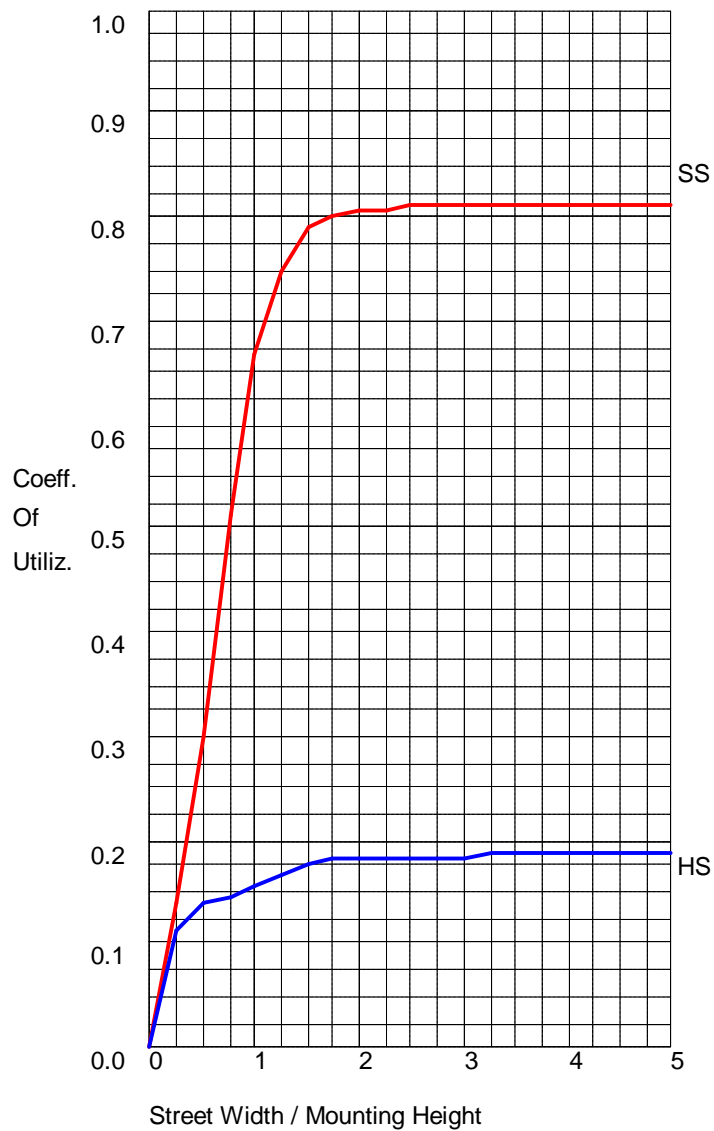
	175.0	180.0
0.0	17681	17681
2.5	17422	17405
5.0	17220	17136
7.5	17089	16960
10.0	16886	16813
12.5	14704	14643
15.0	10403	10194
17.5	5027	5007
20.0	1555	1520
22.5	851	852
25.0	808	800
27.5	793	843
30.0	930	984
32.5	1210	1242
35.0	1698	1754
37.5	1972	1985
40.0	2145	2171
42.5	2475	2502
45.0	2875	2871
47.5	3242	3231
50.0	3423	3415
52.5	3319	3308
55.0	2849	2864
57.5	2217	2168
60.0	1648	1612
62.5	1263	1231
65.0	875	844

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CANDELA TABULATION - (Cont.)

67.5	509	499
70.0	355	351
72.5	292	289
75.0	208	206
77.5	120	115
80.0	66	64
82.5	53	52
85.0	43	42
87.5	25	25
90.0	0	0

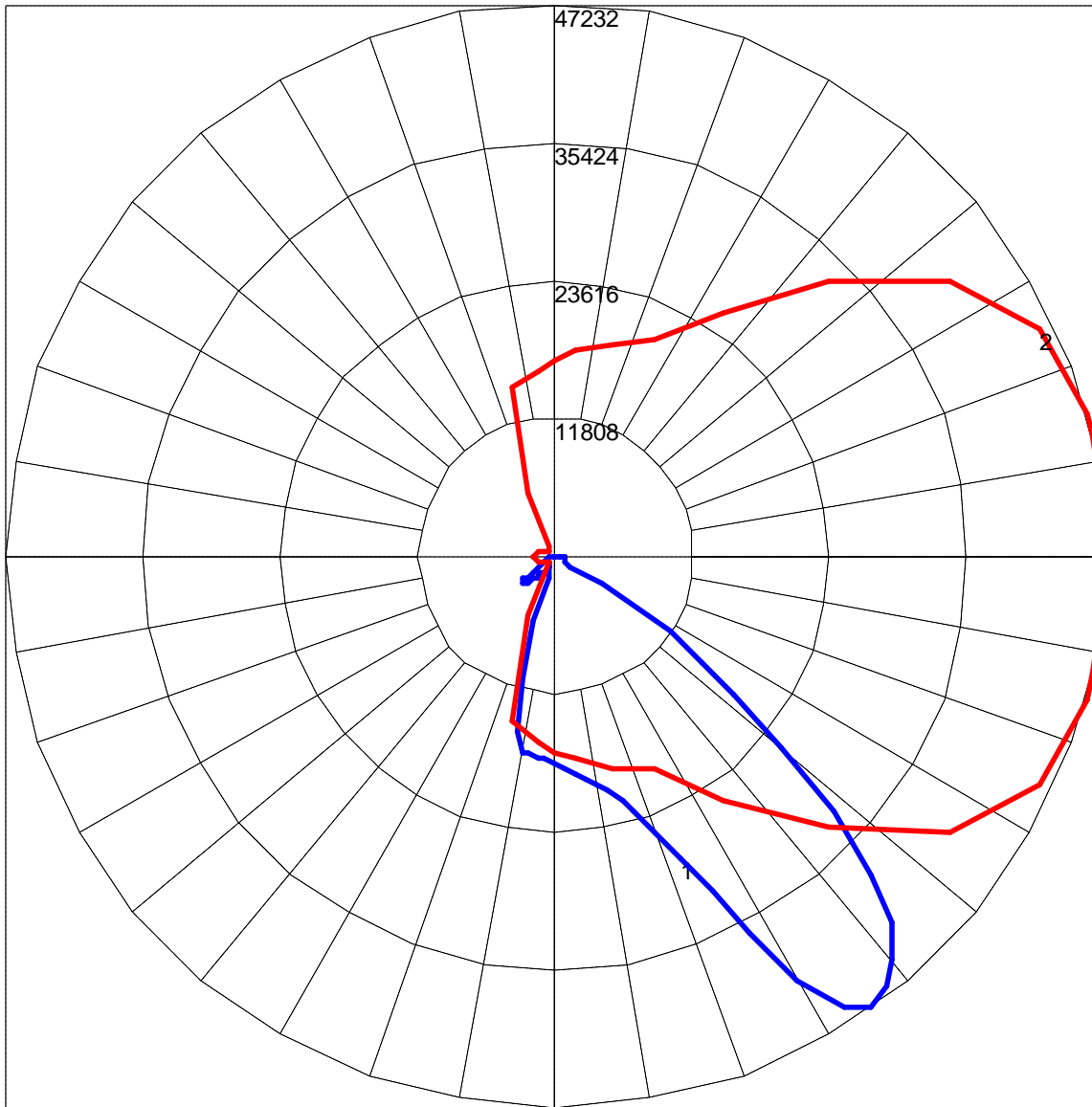
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

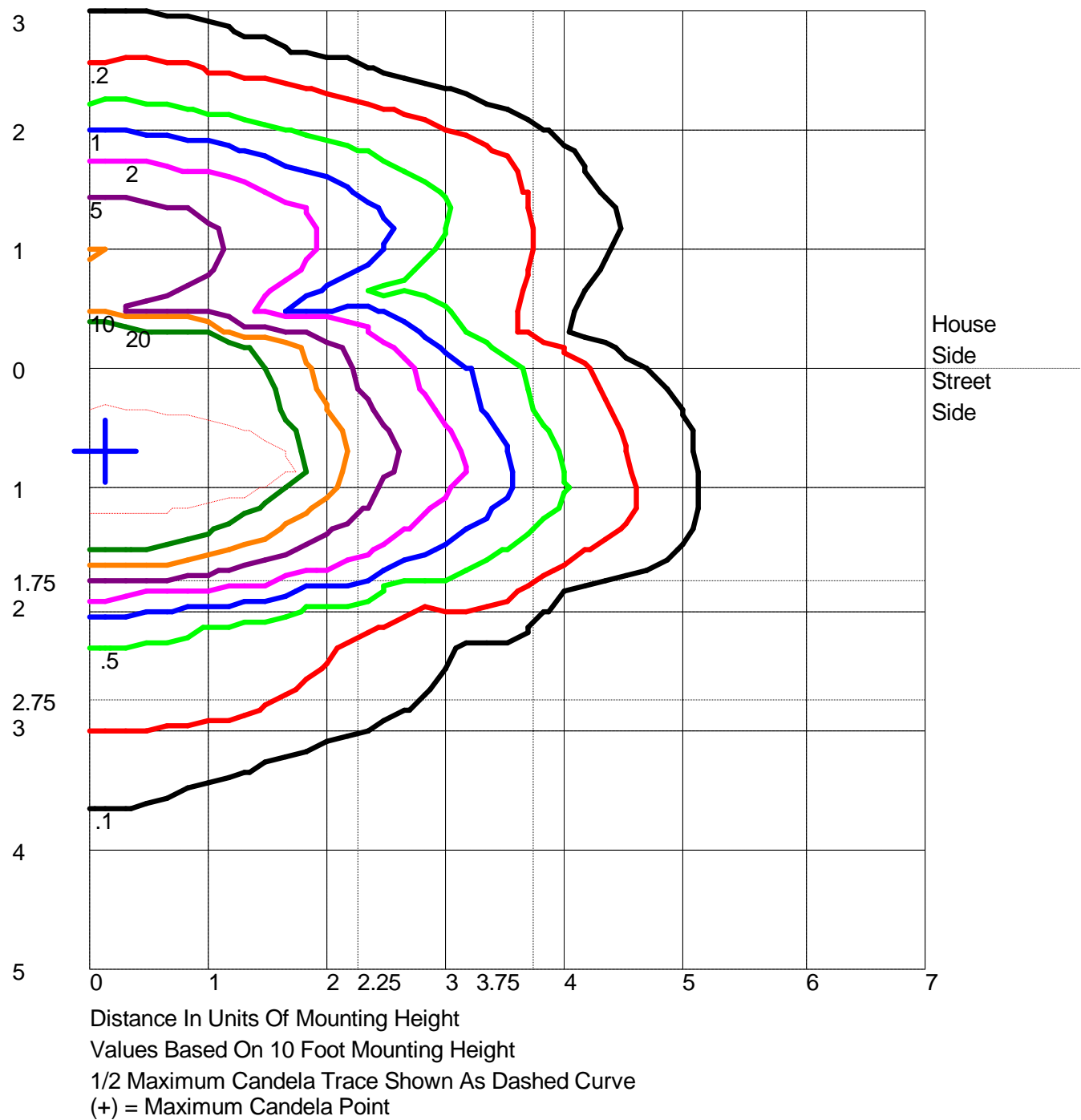
	Lumens	Percent Of Luminaire
Downward Street Side	46983.7	81.4
Downward House Side	10733.9	18.6
Downward Total	57717.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	57717.6	100.0

POLAR GRAPH

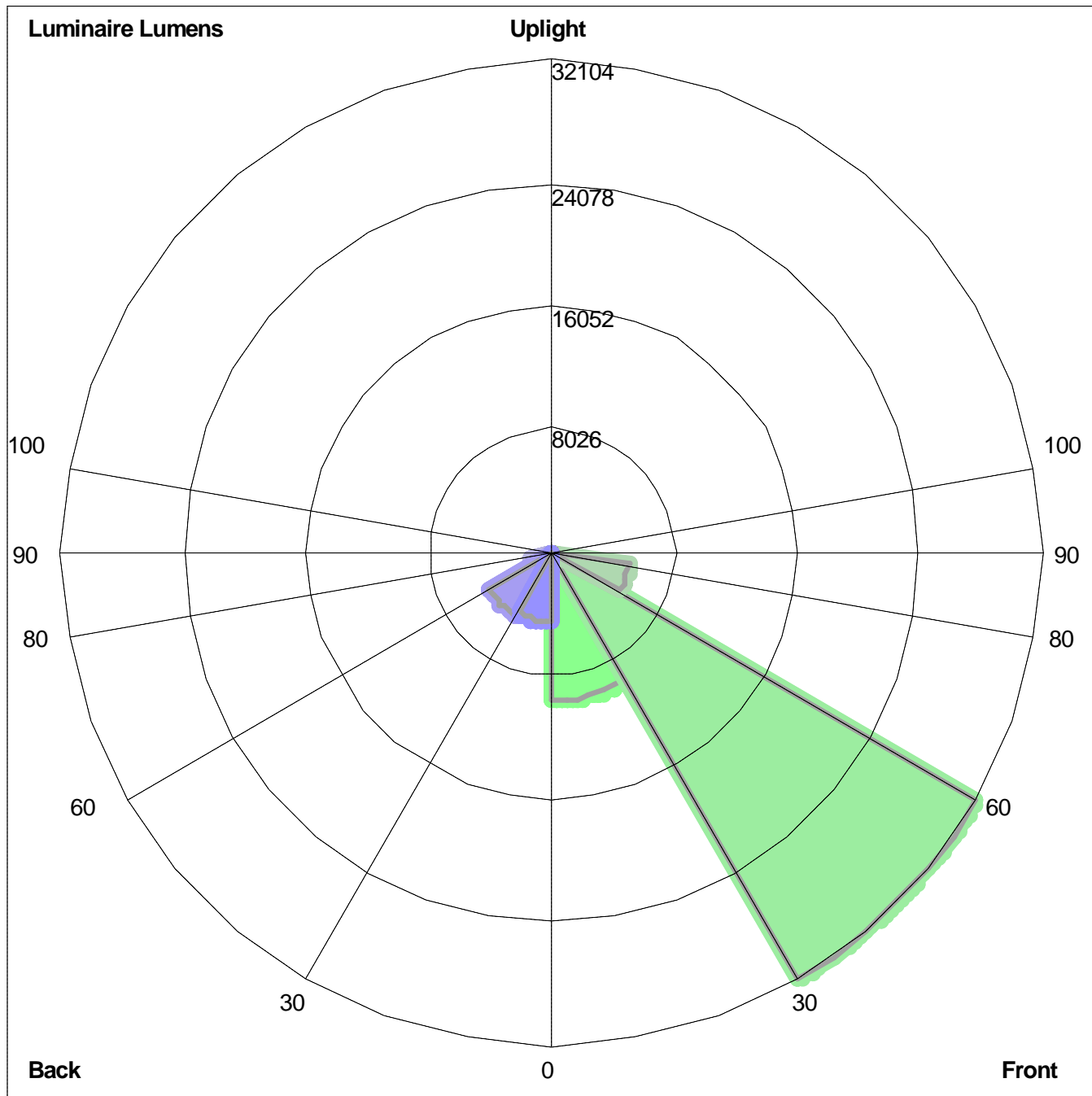


Maximum Candela = 47232 Located At Horizontal Angle = 12.5, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (12.5 - 192.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=9695.6, Medium=32104.2, High=5070.5, Very High=113.5
Back: Low= 4533.0, Medium=4686.9, High=1472.3, Very High=41.7
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3