



IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-SS-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7589
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/24/16
[TEST DATE]02/24/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XLCL-FTA-LED-SS-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]51332
[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	51332
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	429.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	43002
Maximum Candela Angle	7.5H 32.5V
Maximum Candela (<90 Degrees Vertical)	43002
Maximum Candela Angle (<90 Degrees Vertical)	7.5H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1106 (2.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	8724.9	N.A.	17.0
FM - Front-Medium (30-60)	28828.5	N.A.	56.2
FH - Front-High (60-80)	4931.0	N.A.	9.6
FVH - Front-Very High (80-90)	118.2	N.A.	0.2
BL - Back-Low (0-30)	3540.1	N.A.	6.9
BM - Back-Medium (30-60)	3877.5	N.A.	7.6
BH - Back-High (60-80)	1274.7	N.A.	2.5
BVH - Back-Very High (80-90)	37.0	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	51331.9	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>7.5</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	14700	14700	14700	14700	14700	14700	14700	14700	14700	14700
2.5	14898	14953	14939	14932	14900	14895	14852	14840	14799	14777
5.0	15827	15907	15854	15844	15773	15684	15570	15359	15279	15186
7.5	16285	16418	16346	16314	16182	16112	16070	16138	15989	15885
10.0	17101	17227	17185	17138	17075	17101	17012	17013	16745	16534
12.5	17989	18188	18135	18201	18178	18146	17855	17792	17248	16842
15.0	19125	19297	19315	19388	19380	19026	18478	18211	17486	16993
17.5	20879	20915	20798	20814	20480	19678	18890	18420	17773	17155
20.0	23364	23376	23204	23082	22166	20680	19451	18565	17981	17247
22.5	26386	26434	26243	25921	24420	22381	20403	18729	18034	17326
25.0	30188	30137	29912	29378	27168	24709	21718	19143	18045	17276
27.5	35186	35180	34806	33889	30798	27532	23405	19897	18087	17257
30.0	40277	40387	40028	38981	35434	30958	25373	20957	18134	17159
32.5	42709	42988	43002	42723	40009	35169	28039	22440	18237	17025
35.0	41706	42141	42046	42408	42316	39336	31529	24157	18672	16866
37.5	40198	40446	40364	40711	41353	41293	35559	26237	19333	16616
40.0	38473	38665	38668	39125	39685	40293	38613	28926	20181	16390
42.5	35151	35374	35421	36463	37956	38590	39223	32098	21361	16194
45.0	30103	30820	30945	32425	34768	36848	37720	34886	22699	16155
47.5	24432	24824	25235	26985	30100	33853	35834	35977	24510	16070
50.0	19317	19695	19954	21489	24496	29534	33536	34813	26596	15975
52.5	15792	16059	16221	17018	19259	24101	29921	32399	28434	15665
55.0	13373	13538	13670	13987	15168	18678	24960	29782	29096	15488
57.5	10967	11199	11281	11820	12780	14346	19373	26056	28005	15616
60.0	4822	5135	5338	6955	10307	11920	14197	21318	25586	16207
62.5	1510	1489	1462	1725	4464	9384	11145	16127	22426	16606
65.0	860	852	876	970	1249	3694	8846	11424	18496	15471
67.5	705	733	734	701	703	1002	4197	8004	12961	14060
70.0	783	812	816	807	729	640	979	5261	8262	12072
72.5	562	575	584	634	758	748	621	1387	4932	8993
75.0	622	628	612	570	504	584	730	567	2836	5731
77.5	542	547	546	564	623	571	501	641	644	2681
80.0	381	380	373	371	394	494	623	414	411	985
82.5	291	296	289	297	317	349	362	496	300	241
85.0	130	126	129	142	164	189	238	261	253	109
87.5	36	39	41	45	52	57	69	75	69	50
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	14700	14700	14700	14700	14700	14700	14700	14700	14700	14700
2.5	14761	14709	14719	14663	14618	14587	14547	14569	14562	14550
5.0	14892	14788	14773	14678	14577	14495	14413	14414	14399	14382
7.5	15468	15263	15181	14831	14675	14539	14411	14387	14371	14353
10.0	15967	15844	15610	14867	14631	14491	14367	14297	14128	13827
12.5	16086	15811	15352	14678	14470	14361	14015	13292	12049	11091
15.0	16094	15711	15171	14509	14364	14031	12530	10378	8431	7054
17.5	16111	15693	15049	14409	14239	12903	9883	6679	4299	3050
20.0	16181	15649	14753	14314	13885	10856	6782	3221	1543	1053
22.5	16159	15396	14614	14254	12982	8319	3542	1331	913	813
25.0	16098	15269	14464	14185	11366	5568	1529	934	823	755
27.5	16031	15174	14309	13933	9384	2877	902	794	736	687

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CANDELA TABULATION - (Cont.)

30.0	15820	14777	14138	13467	7068	1335	724	672	677	763
32.5	15658	14655	13974	12766	4848	802	630	637	791	1067
35.0	15237	14364	13758	11730	2949	669	568	774	1181	1546
37.5	14642	13937	13469	10455	1780	615	636	1137	1587	1672
40.0	14197	13532	13169	8951	1292	579	901	1532	1740	1732
42.5	14003	13281	12856	7311	1125	611	1333	1637	1945	1973
45.0	14021	13170	12548	5615	1066	787	1633	1754	2130	2319
47.5	14043	12993	12097	4010	972	1141	1737	2052	2400	2674
50.0	13777	12516	11407	2654	854	1585	1940	2415	2727	2881
52.5	13082	11645	10555	1733	878	1768	2293	2780	2895	2834
55.0	12313	10975	9743	1116	1099	1930	2645	2991	2772	2514
57.5	11456	10166	8865	726	1494	2256	2934	2880	2346	1968
60.0	10290	9088	7845	538	1642	2597	2984	2421	1745	1443
62.5	9279	8284	6610	495	1816	2924	2618	1772	1282	1094
65.0	8273	7332	5043	568	2165	2921	1975	1282	941	745
67.5	7228	6201	3680	730	2571	2439	1408	869	548	469
70.0	5805	4745	2426	939	2694	1772	992	489	383	374
72.5	4705	3842	1483	1122	2206	1199	507	356	319	296
75.0	3190	2387	766	1238	1433	605	327	262	225	196
77.5	2002	1354	348	1115	759	296	230	162	129	101
80.0	1106	655	190	642	265	175	127	84	63	57
82.5	564	273	145	246	130	87	64	59	52	46
85.0	196	100	80	71	57	49	47	43	41	37
87.5	40	31	29	28	27	25	24	19	15	13
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

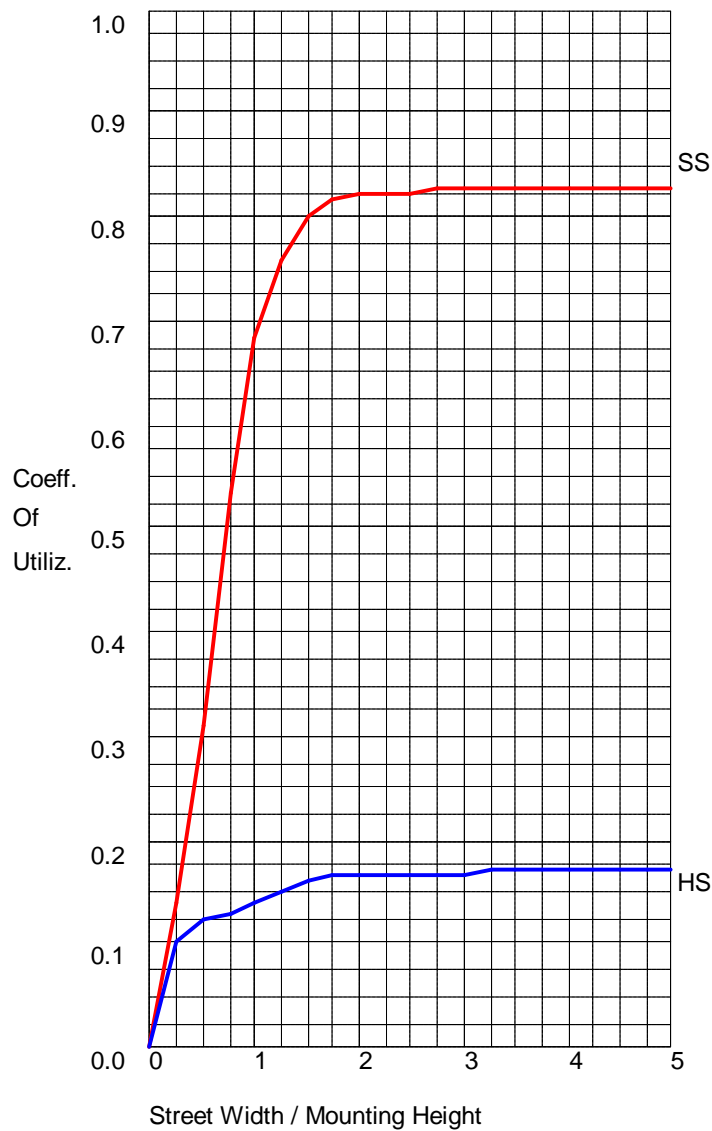
	<u>175.0</u>	<u>180.0</u>
0.0	14700	14700
2.5	14534	14612
5.0	14360	14450
7.5	14332	14425
10.0	13643	13689
12.5	10549	10514
15.0	6309	6236
17.5	2386	2322
20.0	925	909
22.5	747	742
25.0	695	712
27.5	708	747
30.0	871	930
32.5	1232	1311
35.0	1601	1620
37.5	1641	1641
40.0	1771	1776
42.5	2063	2065
45.0	2411	2404
47.5	2748	2736
50.0	2897	2887
52.5	2747	2753
55.0	2329	2332
57.5	1750	1691
60.0	1280	1259
62.5	983	958
65.0	626	606

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CANDELA TABULATION - (Cont.)

67.5	416	408
70.0	354	350
72.5	275	276
75.0	177	179
77.5	83	76
80.0	49	48
82.5	42	42
85.0	36	35
87.5	19	18
90.0	0	0

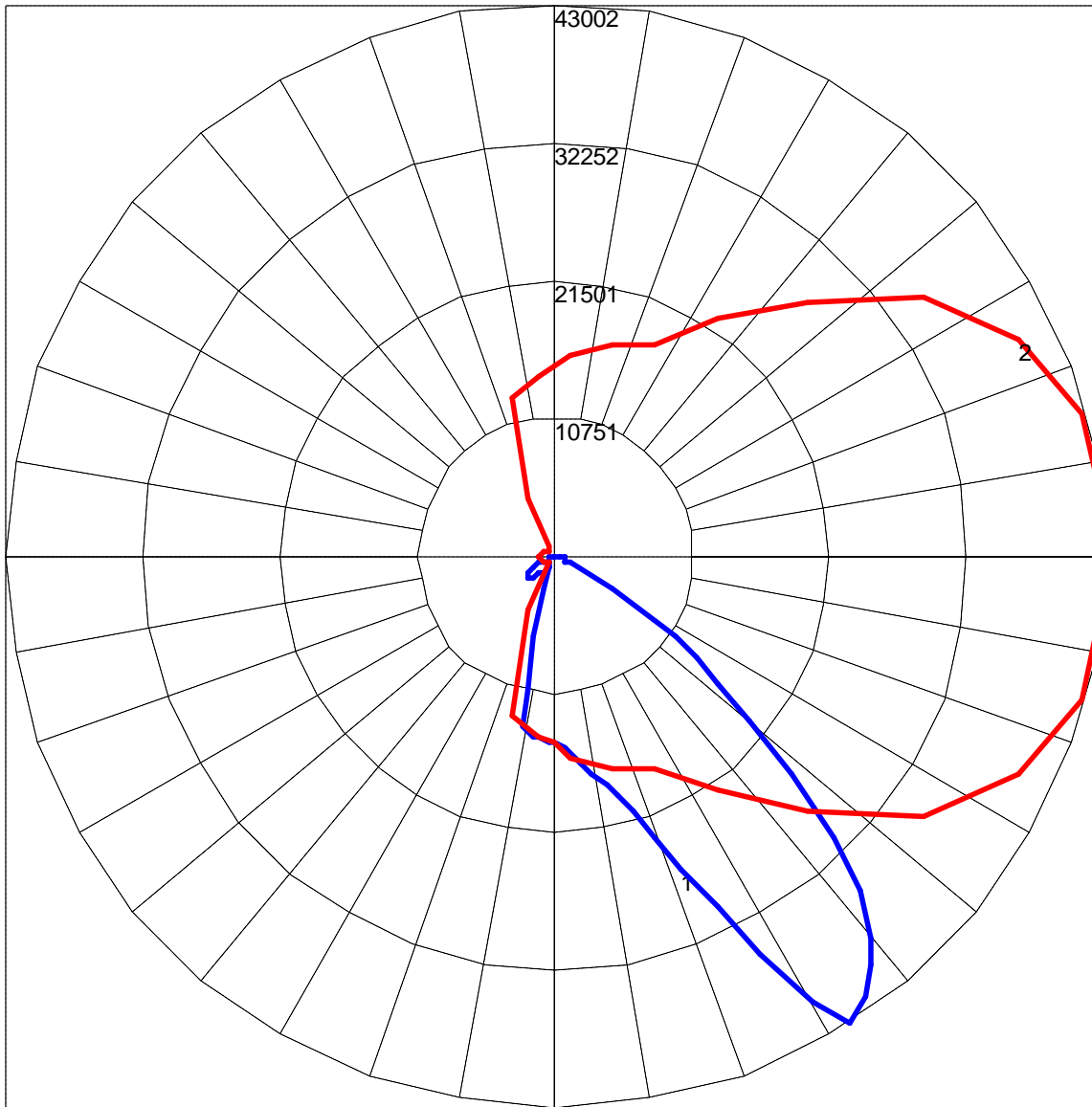
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

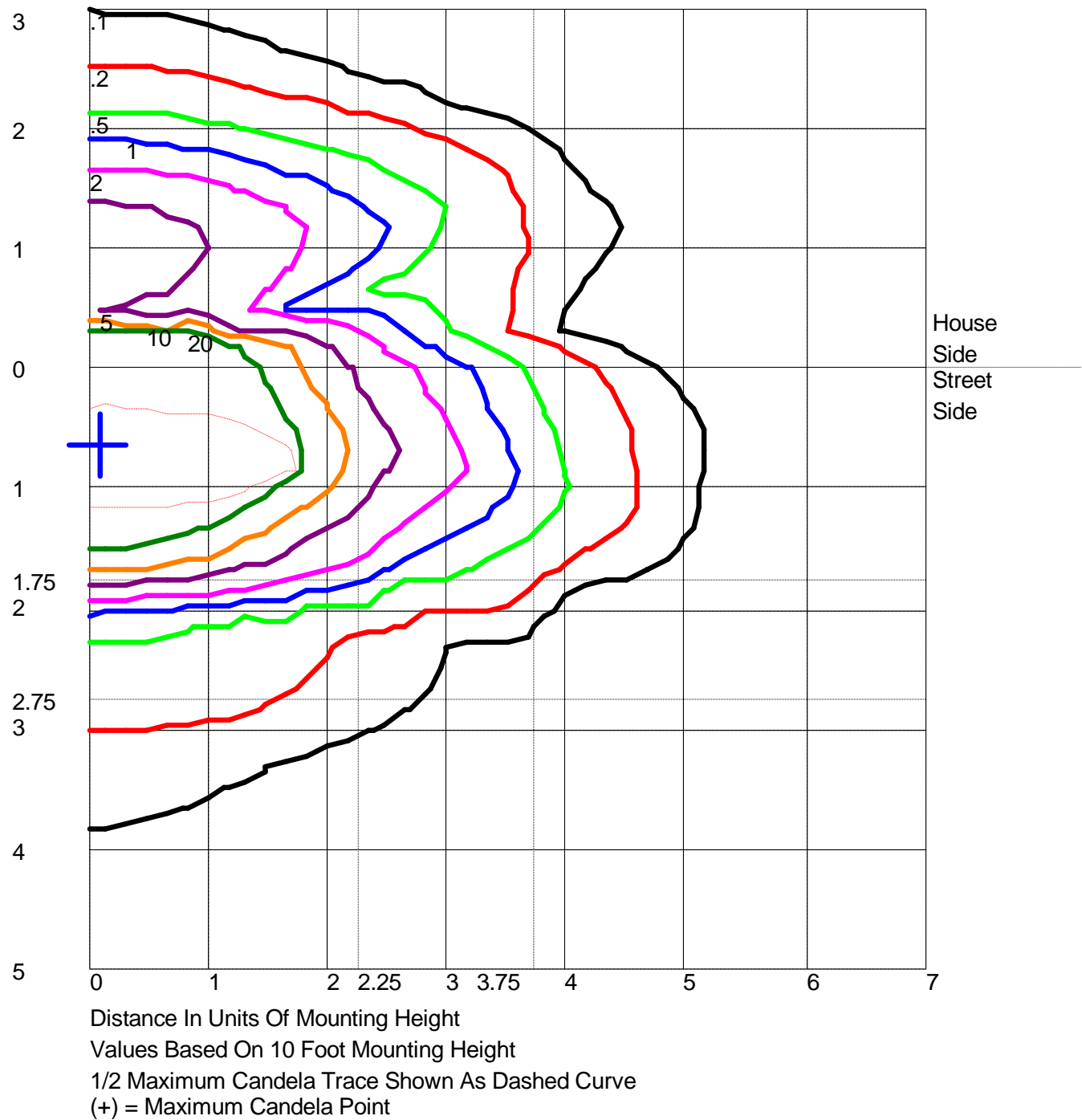
	Lumens	Percent Of Luminaire
Downward Street Side	42602.6	83.0
Downward House Side	8729.3	17.0
Downward Total	51331.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	51331.9	100.0

POLAR GRAPH

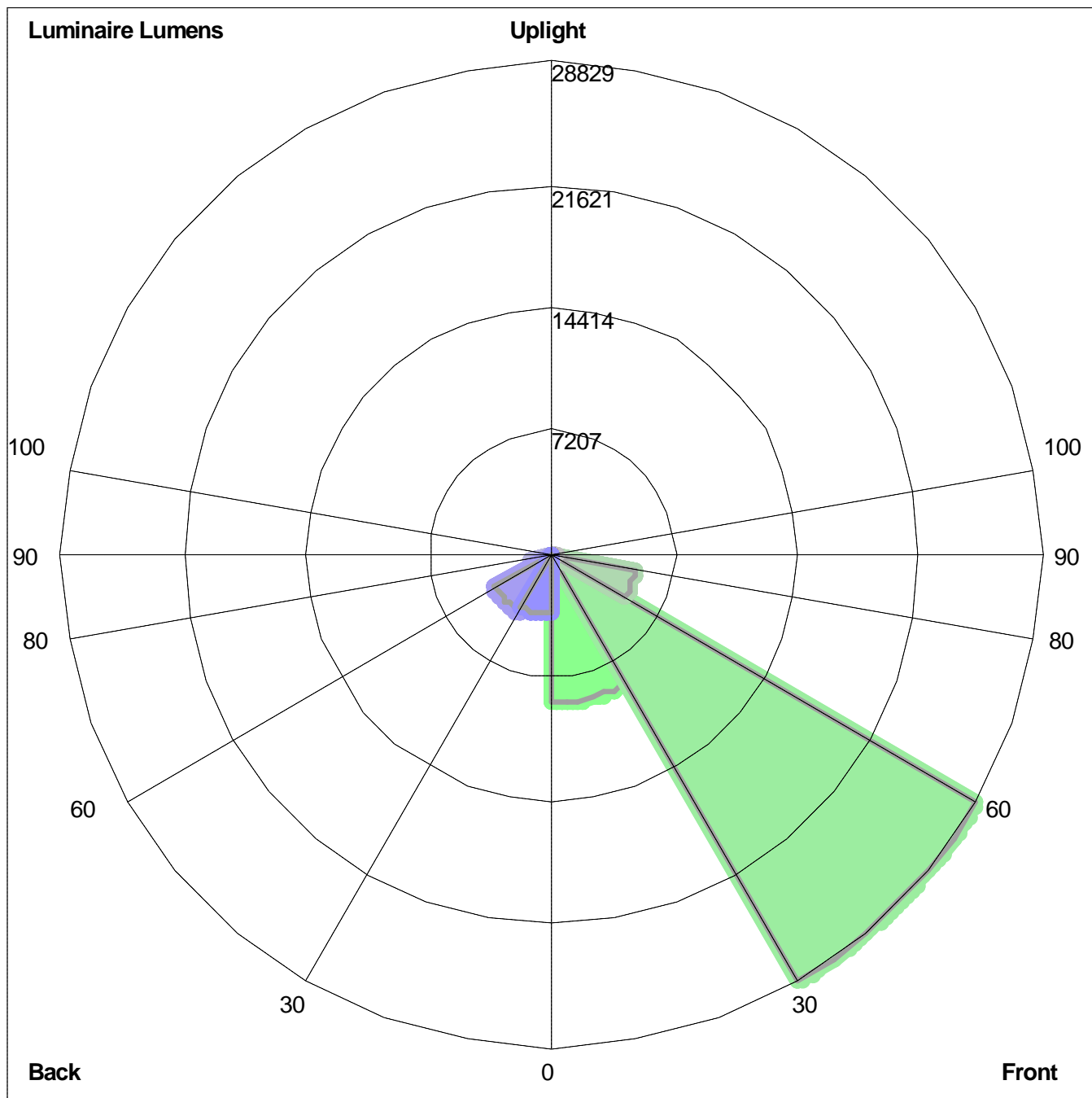


Maximum Candela = 43002 Located At Horizontal Angle = 7.5, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (7.5 - 187.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=8724.9, Medium=28828.5, High= 4931.0, Very High=118.2
Back: Low=3540.1, Medium=3877.5, High=1274.7, Very High=37.0
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3