



IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FT-LED-SS-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12324
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 11/20/2020
[TEST DATE] 11/17/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XLCL-FT-LED-SS-NW
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	50100
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	437.68
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	39817
Maximum Candela Angle	5H 57.5V
Maximum Candela (<90 Degrees Vertical)	39817
Maximum Candela Angle (<90 Degrees Vertical)	5H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2073 (4.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	6452.1	N.A.	12.9
FM - Front-Medium (30-60)	20843.0	N.A.	41.6
FH - Front-High (60-80)	12755.7	N.A.	25.5
FVH - Front-Very High (80-90)	124.1	N.A.	0.2
BL - Back-Low (0-30)	4298.5	N.A.	8.6
BM - Back-Medium (30-60)	4103.2	N.A.	8.2
BH - Back-High (60-80)	1423.2	N.A.	2.8
BVH - Back-Very High (80-90)	100.4	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	50100.2	N.A.	100.0
BUG Rating	B4-U0-G5		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	2.5	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0
0.0	16727	16727	16727	16727	16727	16727	16727	16727	16727	16727
2.5	16846	16835	16855	16879	16793	16782	16783	16731	16719	16687
5.0	16279	16307	16331	16393	16331	16487	16535	16600	16718	16759
7.5	15608	15593	15620	15720	15716	15932	16139	16402	16677	16890
10.0	15172	15185	15208	15263	15269	15439	15713	16040	16523	16854
12.5	14914	14916	14936	15005	14996	15179	15326	15618	16067	16410
15.0	14746	14724	14759	14819	14816	14982	15158	15336	15533	15761
17.5	14643	14575	14618	14675	14649	14848	15044	15283	15270	15476
20.0	14555	14536	14565	14622	14572	14740	15005	15094	15261	15822
22.5	14541	14582	14558	14640	14573	14675	14798	14883	15261	16301
25.0	14567	14616	14624	14657	14571	14632	14623	14686	15172	16139
27.5	14611	14667	14678	14700	14594	14644	14510	14472	14866	15570
30.0	14667	14716	14729	14751	14661	14624	14392	14322	14522	14982
32.5	14746	14795	14828	14807	14661	14569	14292	14194	14289	14746
35.0	14888	14928	14960	14914	14761	14567	14204	14077	14107	14888
37.5	15123	15206	15228	15146	14888	14582	14158	13953	14042	14583
40.0	15926	15929	15924	15595	15117	14557	14099	13759	13696	13922
42.5	17904	17997	17824	17157	15879	14862	14128	13636	13324	13387
45.0	21019	21146	20864	19816	17633	15512	14177	13447	12916	12901
47.5	25995	26118	26029	23965	20529	16986	14346	13186	12315	12217
50.0	31167	31244	31193	29325	25117	19238	14684	12853	11983	11865
52.5	35051	35081	35247	33850	30632	23330	16037	12534	11628	11232
55.0	37791	37939	37948	36640	34534	28116	18710	12678	11210	10464
57.5	39793	39744	39817	38805	36758	31433	22931	13604	10716	9695
60.0	38979	39046	39172	39084	37748	33100	26755	15347	10234	8961
62.5	35336	35487	35719	36785	36235	33608	28283	18370	9987	8178
65.0	27382	27271	28120	30171	31677	32114	28360	20876	9948	7107
67.5	15946	15836	16707	19390	23236	27385	26838	20927	10388	6035
70.0	7046	6981	7407	9001	12695	18592	21952	18993	10678	5153
72.5	2643	2609	2781	3483	5274	9209	14307	15549	10222	4375
75.0	910	898	895	1149	1892	3533	6722	10274	7950	3505
77.5	384	392	386	415	655	1124	2376	4745	4609	2774
80.0	204	205	201	202	262	327	688	1488	2022	2073
82.5	104	106	103	100	92	112	165	345	583	1171
85.0	34	35	34	35	23	37	46	46	91	395
87.5	1	1	2	4	7	9	11	12	12	24
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	85.0	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0
0.0	16727	16727	16727	16727	16727	16727	16727	16727	16727	16727
2.5	16649	16682	16699	16614	16658	16622	16736	16775	16707	16766
5.0	16769	16795	16804	16695	16649	16510	16490	16428	16333	16344
7.5	17016	17034	17054	16859	16676	16348	16153	15918	15664	15588
10.0	17013	17100	17115	16892	16540	16019	15630	15153	14525	14308
12.5	16634	16737	16814	16626	16145	15437	14604	13639	12758	12117
15.0	16059	16231	16369	16162	15570	14381	13193	11723	10654	9796
17.5	16061	16315	16425	16025	14839	13035	11336	9534	8074	7098
20.0	16785	17077	17040	16079	14194	11572	9392	7195	5492	4460
22.5	17814	18171	17954	16179	13446	10136	7178	4876	3257	2389
25.0	17781	18189	17899	15883	12371	8540	5208	2970	1786	1328
27.5	17094	17551	17368	15119	11186	6851	3411	1714	1137	1047

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CANDELA TABULATION - (Cont.)

30.0	16529	17143	17013	14348	9864	5088	2053	1149	1028	1040
32.5	16333	17005	16769	13431	8344	3451	1250	1035	1063	1101
35.0	16207	16858	16437	12498	6774	2181	957	1051	1167	1265
37.5	15596	16125	15788	11531	5274	1338	893	1104	1348	1511
40.0	14487	15005	14908	10501	3845	993	877	1170	1576	1768
42.5	13994	14503	14117	9258	2650	924	872	1192	1764	1932
45.0	13824	14414	13582	7958	1829	967	897	1135	1804	1984
47.5	13822	14667	13505	6685	1344	1076	983	1050	1751	1898
50.0	13477	14436	12834	5498	1148	1266	1151	980	1619	1669
52.5	12207	12918	11781	4426	1110	1506	1334	930	1372	1266
55.0	10748	11563	10982	3728	1189	1718	1475	868	1092	878
57.5	10042	10960	10025	3602	1402	1901	1471	800	850	726
60.0	9256	10222	9247	3897	1656	1938	1255	685	720	685
62.5	8275	9227	8390	4190	1817	1643	839	645	702	661
65.0	7114	7821	6745	4079	1620	1264	670	634	691	655
67.5	5866	6438	4908	3705	1323	775	617	624	658	658
70.0	4830	5312	3501	3202	1109	565	596	610	622	648
72.5	3788	4180	2281	2764	841	514	595	622	590	658
75.0	2726	3005	1366	2118	521	475	625	665	569	644
77.5	1796	1896	798	1311	383	439	647	706	528	580
80.0	969	981	453	657	292	372	573	641	421	457
82.5	502	422	239	306	168	298	377	448	272	298
85.0	173	102	81	118	64	172	161	199	108	136
87.5	13	12	11	9	7	13	22	21	0	14
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

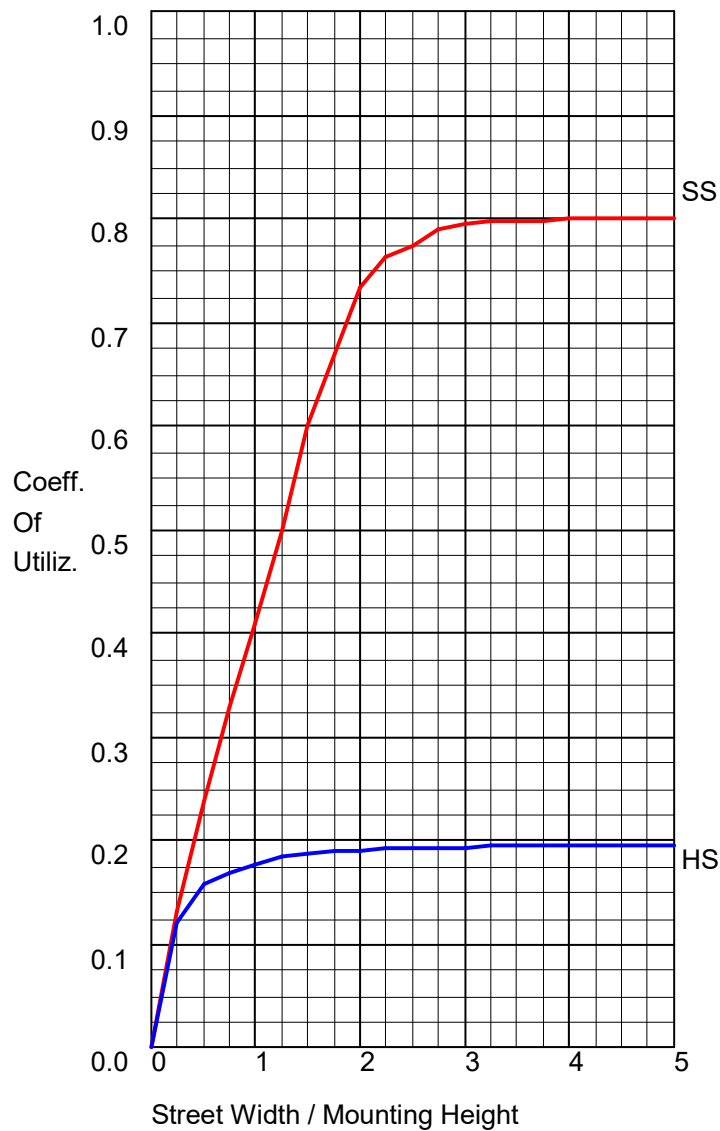
	<u>175.0</u>	<u>180.0</u>
0.0	16727	16727
2.5	16781	16877
5.0	16314	16384
7.5	15491	15544
10.0	14063	14043
12.5	11841	11730
15.0	9327	9168
17.5	6375	6334
20.0	3793	3748
22.5	2020	1988
25.0	1193	1183
27.5	1052	1056
30.0	1057	1063
32.5	1145	1153
35.0	1333	1344
37.5	1605	1615
40.0	1859	1899
42.5	2024	2063
45.0	2040	2067
47.5	1844	1848
50.0	1485	1486
52.5	1026	1016
55.0	792	792
57.5	757	763
60.0	764	774
62.5	776	801
65.0	767	798

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CANDELA TABULATION - (Cont.)

67.5	753	779
70.0	757	774
72.5	798	811
75.0	814	831
77.5	767	792
80.0	641	672
82.5	450	460
85.0	234	235
87.5	47	49
90.0	0	0

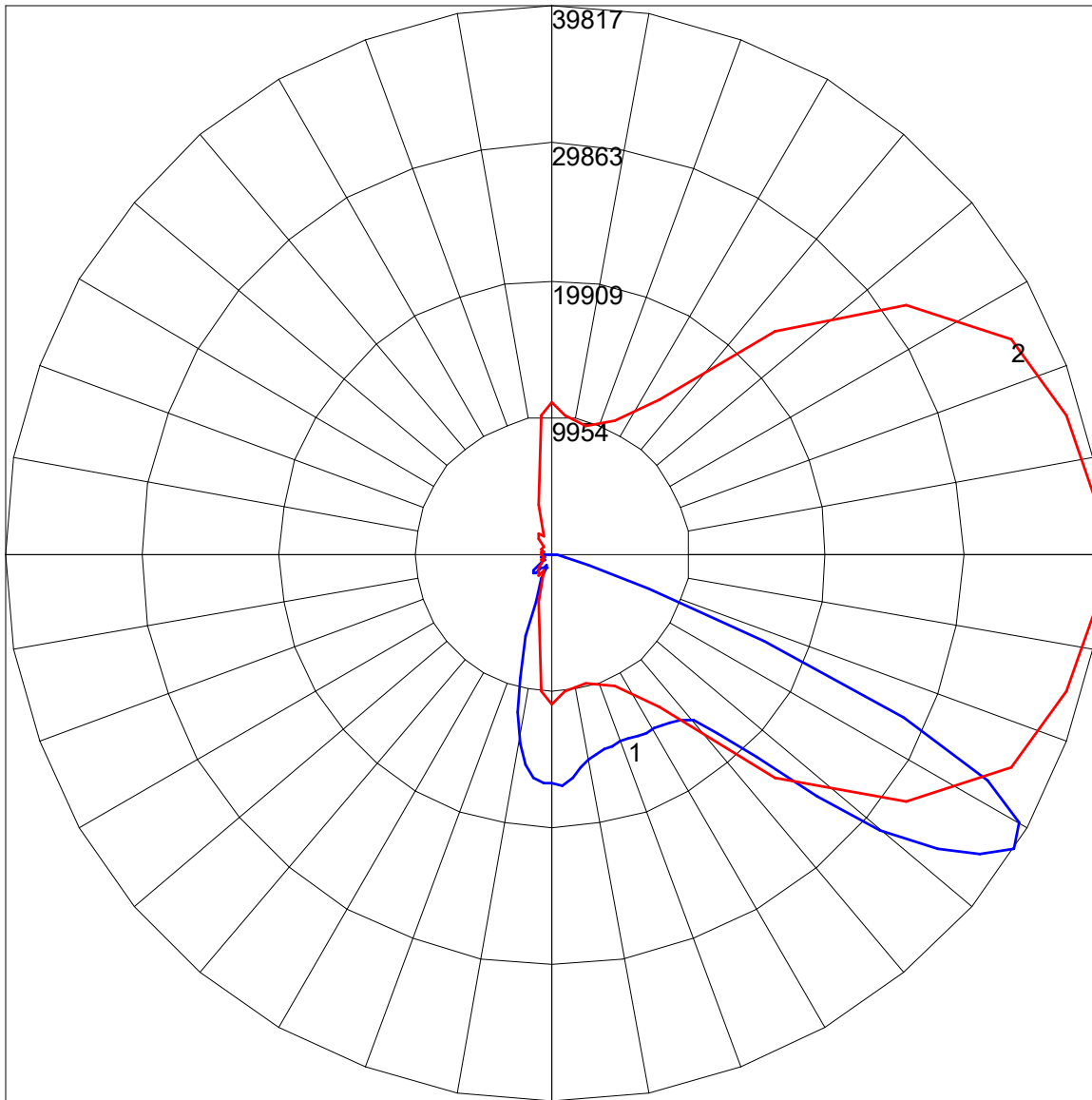
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

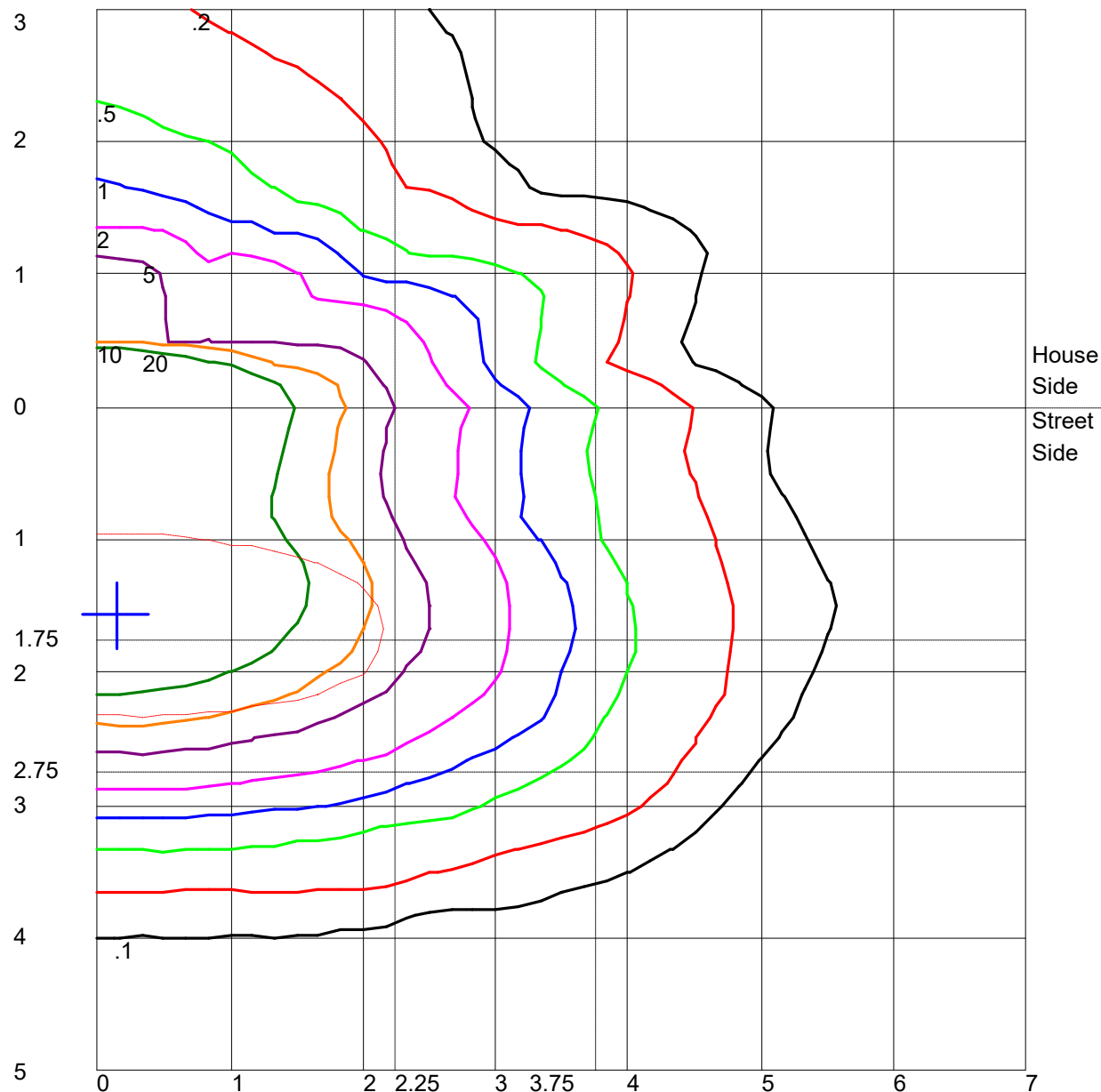
	Lumens	Percent Of Luminaire
Downward Street Side	40174.8	80.2
Downward House Side	9925.3	19.8
Downward Total	50100.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	50100.1	100.0

POLAR GRAPH

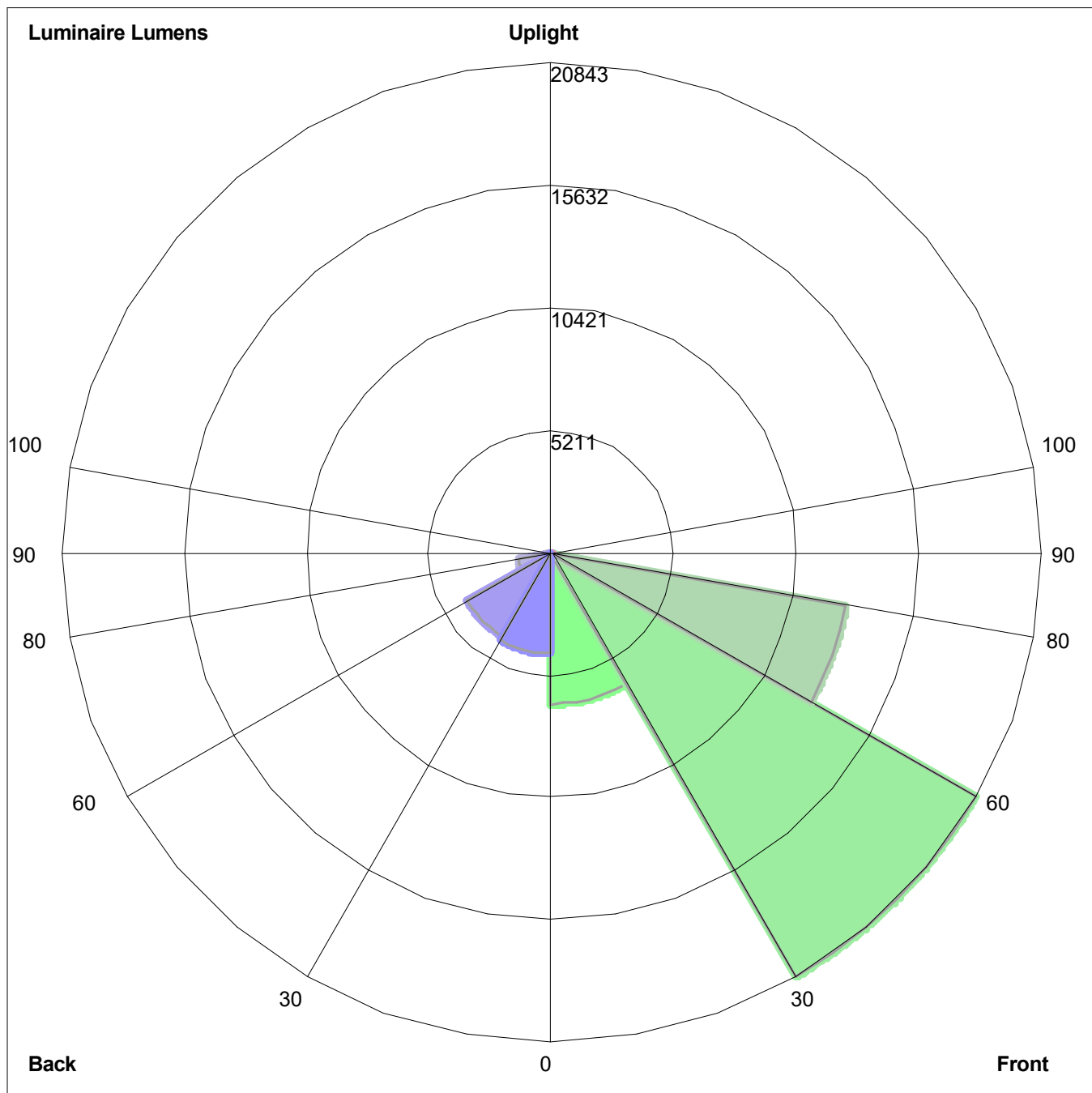


Maximum Candela = 39817 Located At Horizontal Angle = 5, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=6452.1, Medium= 20843.0, High=12755.7, Very High=124.1
Back: Low=4298.5, Medium=4103.2, High=1423.2, Very High=100.4
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G5