

IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-3-LED-SS-CW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7300
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/25/15
[TEST DATE]09/25/15
[MANUFACT]LSI INDUSTRIES, INC
[LUMCAT]XLCL-3-LED-SS-CW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]31300
[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	31300
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	427.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20854
Maximum Candela Angle	5H 32.5V
Maximum Candela (<90 Degrees Vertical)	20854
Maximum Candela Angle (<90 Degrees Vertical)	5H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1665 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4368.6	N.A.	14.0
FM - Front-Medium (30-60)	13382.9	N.A.	42.8
FH - Front-High (60-80)	7093.5	N.A.	22.7
FVH - Front-Very High (80-90)	210.3	N.A.	0.7
BL - Back-Low (0-30)	2860.4	N.A.	9.1
BM - Back-Medium (30-60)	2386.7	N.A.	7.6
BH - Back-High (60-80)	984.9	N.A.	3.1
BVH - Back-Very High (80-90)	12.6	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	31299.9	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	10607	10607	10607	10607	10607	10607	10607	10607	10607	10607
2.5	10690	10727	10725	10714	10689	10708	10711	10714	10708	10698
5.0	10776	10817	10800	10801	10787	10813	10797	10732	10640	10589
7.5	11115	11175	11145	11185	11224	11283	10838	10581	10507	10355
10.0	10656	10702	10686	10693	10737	10879	10990	10936	10154	10013
12.5	10597	10627	10619	10559	10436	10457	10492	10436	10051	9434
15.0	10772	10808	10794	10708	10473	10213	10042	9806	9387	8713
17.5	11354	11372	11299	11143	10719	10166	9632	9115	8571	8014
20.0	13186	13215	13108	12808	11717	10365	9306	8414	7791	7507
22.5	14724	14743	14633	14282	13086	11505	9082	7746	7135	6830
25.0	16598	16554	16474	15912	14312	12200	9600	7349	6725	6432
27.5	18164	18121	18008	17356	15331	12602	9728	7254	6502	6151
30.0	20074	20059	19996	18865	15782	12463	9837	7719	6383	6051
32.5	20806	20854	20790	19443	15855	12022	9813	7967	6458	5988
35.0	20282	20288	20170	19010	15381	11900	9823	8422	6567	6007
37.5	19733	19841	19690	18081	14275	11503	9960	8746	7096	6184
40.0	19749	19685	19413	17661	12953	10949	10236	9126	7484	6387
42.5	19586	19544	19222	16860	12423	10556	10360	9590	8113	6663
45.0	19270	19195	18720	15933	11747	10615	10193	10264	8812	6924
47.5	19682	19800	19417	15774	11139	10774	10355	10747	9652	7222
50.0	18896	19066	18743	15517	11356	10815	10774	11104	10635	7851
52.5	18644	18595	18247	15184	11152	11172	11114	11708	12022	8881
55.0	17040	16806	16443	14006	10982	11136	11745	12727	13395	9961
57.5	16067	16041	15460	12870	9936	11068	12737	13899	14514	11082
60.0	13430	13493	12989	10646	8986	10554	13752	14937	15967	12238
62.5	9193	9133	8603	7034	7248	9858	14450	16335	16869	12705
65.0	4990	4845	4583	3677	4742	8805	14601	16887	16592	12480
67.5	3325	3489	3325	2402	2967	7298	14282	16000	15164	11360
70.0	1827	2272	2517	1712	2669	6173	12770	13867	12687	9540
72.5	1117	1267	1366	1017	2477	5415	10423	11056	9545	6756
75.0	1044	1042	1019	879	1872	4107	7508	6998	5390	3915
77.5	1011	990	965	834	1106	2619	4193	3479	2489	1797
80.0	958	936	906	845	717	1226	1665	1282	861	707
82.5	872	848	823	676	521	526	568	410	297	243
85.0	739	718	692	553	426	382	339	193	135	97
87.5	631	614	592	472	375	338	297	151	93	62
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	10607	10607	10607	10607	10607	10607	10607	10607	10607	10607
2.5	10698	10676	10678	10617	10605	10571	10532	10518	10531	10479
5.0	10565	10530	10504	10405	10345	10235	10111	10022	9998	9887
7.5	10279	10250	10215	10062	9885	9631	9384	9266	9240	9220
10.0	9846	9789	9740	9502	9174	8879	8761	8785	8778	8563
12.5	9232	9141	9124	8756	8349	8237	8258	7836	8048	8170
15.0	8536	8428	8364	7862	7640	7706	7370	7701	8033	8234
17.5	7746	7636	7562	7016	7025	6743	7171	7613	8017	8294
20.0	6928	6841	6744	6271	6343	6327	6947	7450	7872	8149
22.5	6308	6241	6094	5684	5340	5880	6553	7158	7440	7356
25.0	5898	5830	5657	5317	4957	5430	6050	6526	5935	5643
27.5	5628	5542	5332	4992	4698	5004	5379	4995	4620	4189

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CANDELA TABULATION - (Cont.)

30.0	5589	5492	5225	4754	4501	4616	4225	3781	3258	2721
32.5	5576	5497	5211	4382	4358	4168	3241	2615	1943	1371
35.0	5642	5543	5249	4274	4218	3452	2385	1552	946	707
37.5	5880	5641	5254	4246	4100	2717	1603	736	516	536
40.0	6203	5804	5362	4288	3947	2128	957	406	363	451
42.5	6459	5985	5488	4387	3666	1572	584	311	282	395
45.0	6551	5962	5571	4567	3023	1023	461	264	222	307
47.5	6713	6208	5936	4925	2636	569	453	232	181	219
50.0	7231	6728	6468	5346	2215	397	444	204	159	165
52.5	7912	7370	7081	5822	1683	376	425	178	141	135
55.0	8610	8055	7742	6158	1284	352	361	159	122	118
57.5	9243	8621	8448	6086	991	327	316	128	110	103
60.0	9606	8977	9040	5880	797	273	292	112	98	91
62.5	9515	8829	8892	5342	674	210	270	99	86	81
65.0	8818	8140	8178	4388	556	167	214	87	77	71
67.5	7748	7085	7321	3393	402	138	157	71	66	59
70.0	6356	5840	6195	2463	285	125	119	59	54	44
72.5	4292	3972	4331	1616	207	108	85	47	37	27
75.0	2403	2246	2497	814	151	94	58	33	17	0
77.5	1134	1071	1082	274	111	71	35	15	5	0
80.0	419	366	375	93	73	48	20	12	4	0
82.5	135	127	124	55	43	30	18	11	3	0
85.0	56	44	39	31	24	21	14	10	3	0
87.5	31	25	24	21	18	15	10	5	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

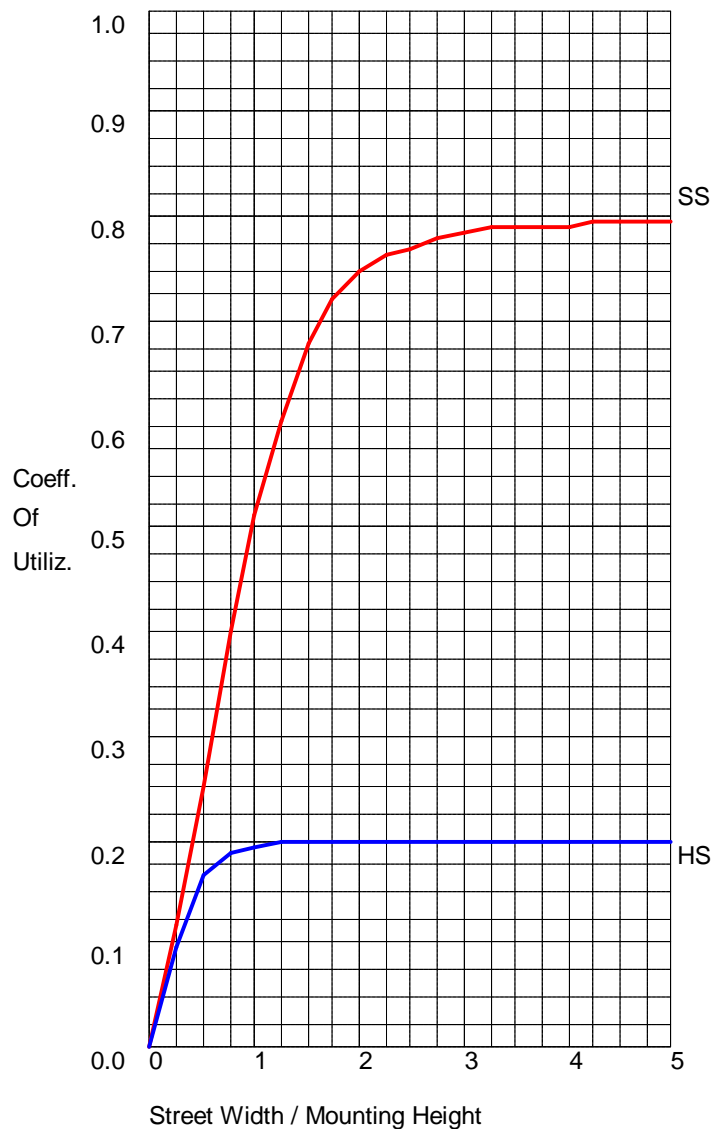
	175.0	180.0
0.0	10607	10607
2.5	10465	10550
5.0	9847	9931
7.5	9212	9300
10.0	8404	8471
12.5	8233	8321
15.0	8323	8416
17.5	8377	8470
20.0	8187	8295
22.5	6853	6959
25.0	5389	5407
27.5	3896	3899
30.0	2413	2407
32.5	1303	1314
35.0	858	901
37.5	683	720
40.0	572	610
42.5	515	557
45.0	442	491
47.5	373	437
50.0	271	327
52.5	174	190
55.0	138	147
57.5	129	139
60.0	112	120
62.5	97	105
65.0	80	87

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CANDELA TABULATION - (Cont.)

67.5	63	67
70.0	41	44
72.5	22	20
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

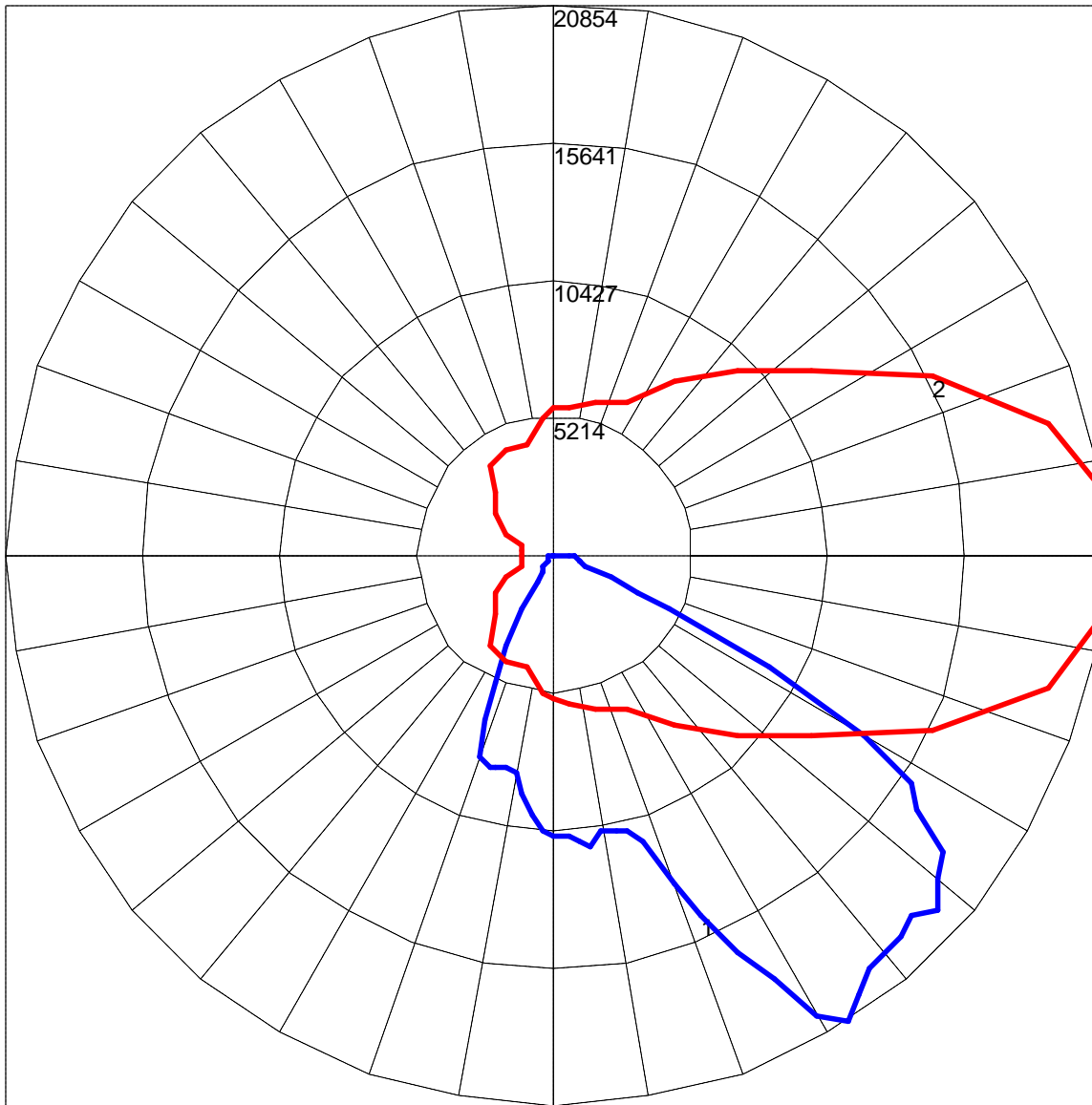
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

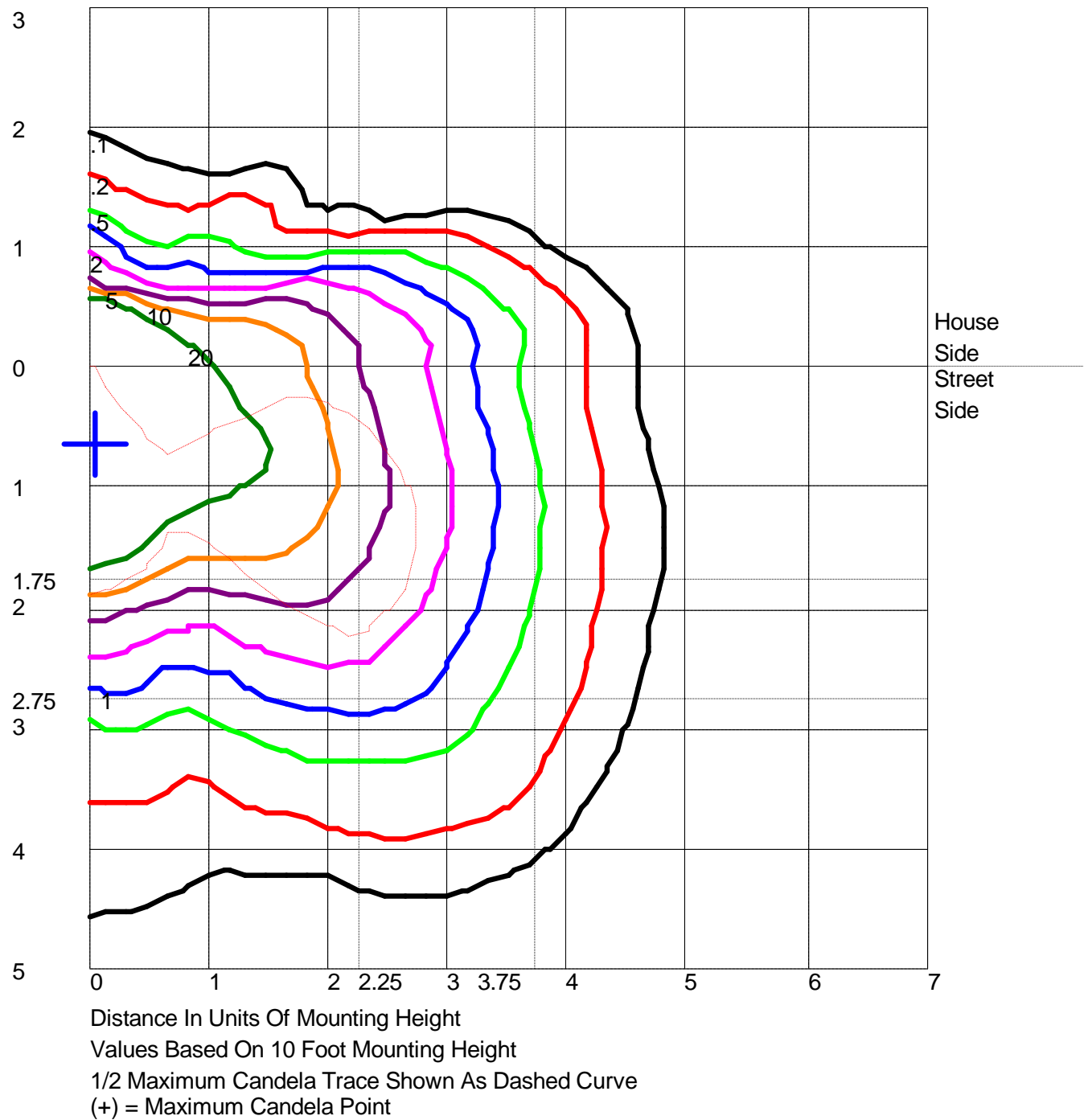
	Lumens	Percent Of Luminaire
Downward Street Side	25055.4	80.0
Downward House Side	6244.6	20.0
Downward Total	31300.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	31300.0	100.0

POLAR GRAPH

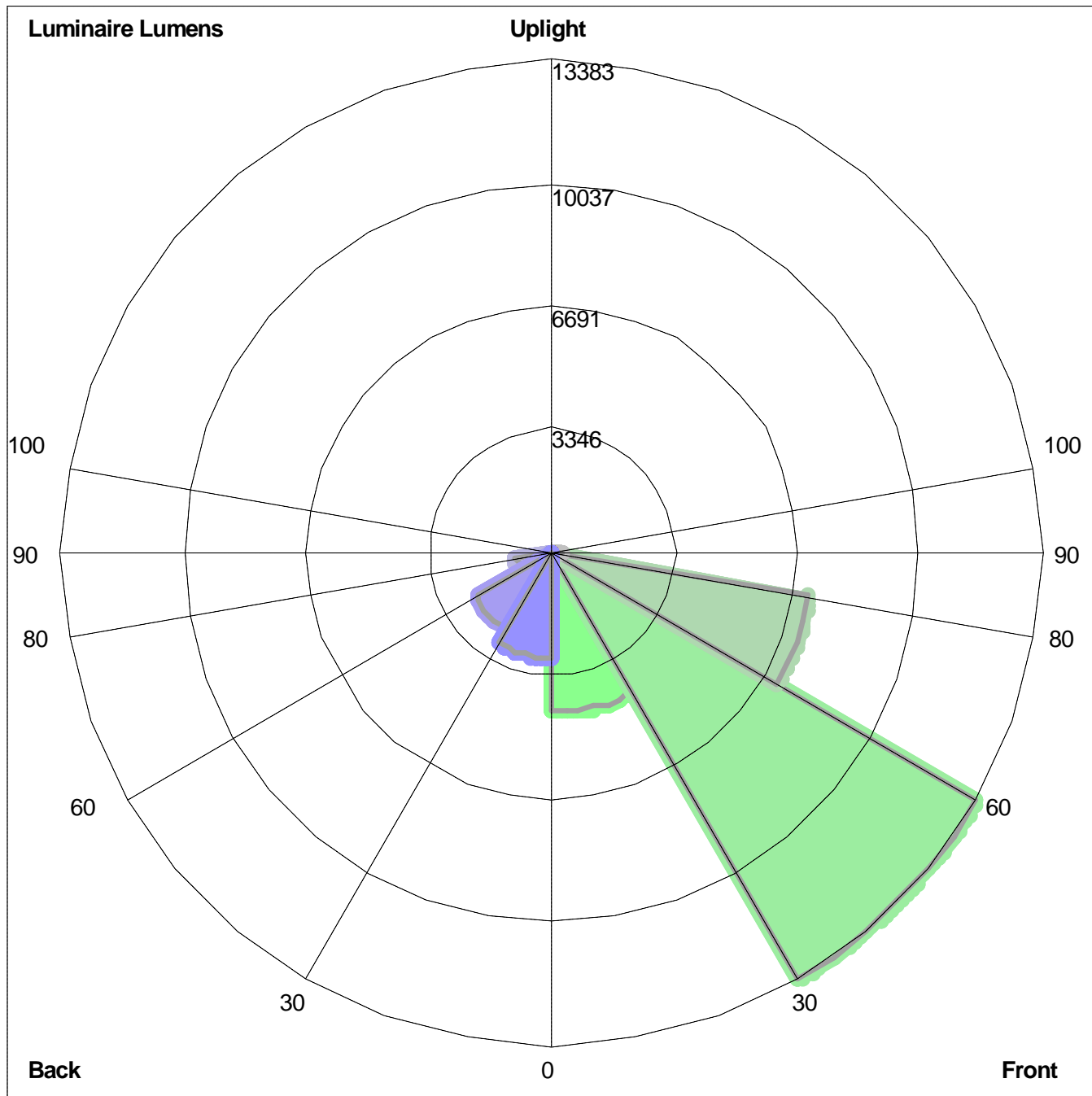


Maximum Candela = 20854 Located At Horizontal Angle = 5, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=4368.6, Medium=13382.9, High=7093.5, Very High=210.3
Back: Low=2860.4, Medium=2386.7, High=984.9, Very High=12.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3