



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7242
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/10/15
[TEST DATE]09/10/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-3-LED-HO-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]53365
[SEARCH SOURCE TYPE] 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	53365
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	544.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	32475
Maximum Candela Angle	7.5H 32.5V
Maximum Candela (<90 Degrees Vertical)	32475
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	2119 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	7782.8	N.A.	14.6
FM - Front-Medium (30-60)	20387.6	N.A.	38.2
FH - Front-High (60-80)	10239.8	N.A.	19.2
FVH - Front-Very High (80-90)	135.7	N.A.	0.3
BL - Back-Low (0-30)	6313.7	N.A.	11.8
BM - Back-Medium (30-60)	5871.6	N.A.	11.0
BH - Back-High (60-80)	2576.5	N.A.	4.8
BVH - Back-Very High (80-90)	57.1	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	53364.8	N.A.	100.0
BUG Rating	B5-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	7.5	15.0	25.0	35.0	45.0	55.0	65.0	75.0
0.0	21199	21199	21199	21199	21199	21199	21199	21199	21199	21199
2.5	21372	21401	21423	21455	21344	21304	21415	21297	21277	21318
5.0	21087	21119	21142	21199	21055	21014	21103	20949	20877	20869
7.5	20240	20351	20305	20488	20308	20422	20637	20611	20612	20581
10.0	19403	19439	19432	19540	19359	19595	19981	20015	19865	19790
12.5	19296	19319	19313	19255	18916	18917	19129	18976	18585	18546
15.0	19700	19709	19676	19614	19116	18507	18250	17702	16962	16966
17.5	20673	20697	20596	20424	19670	18493	17458	16408	15276	15139
20.0	22620	22634	22502	22111	20779	18820	16897	15044	13960	13316
22.5	25143	25268	25019	24481	22512	19634	16528	13665	12595	12094
25.0	27567	27653	27424	26779	24187	20599	16445	13014	11828	11430
27.5	29996	30184	30053	29279	25480	20901	16304	12831	11574	11088
30.0	32062	32152	32099	30674	25947	20397	16020	13042	11503	10983
32.5	32352	32426	32475	30836	25006	19275	15988	13408	11642	10887
35.0	31602	31610	31480	29635	23429	18226	16104	13813	11811	10882
37.5	30534	30703	30600	28065	21448	17308	16176	14430	12173	11136
40.0	29339	29399	29209	26460	19457	16631	16264	15046	12784	11537
42.5	28233	28314	27942	24504	17737	15924	16003	15865	13838	12047
45.0	27392	27478	27105	22941	16368	15541	15738	16460	15046	12616
47.5	26651	26833	26426	21802	15501	15372	15759	16903	16563	13179
50.0	25435	25694	25310	20888	15061	15264	15972	17388	18088	14055
52.5	23810	23784	23600	19623	14609	15217	16383	18175	19775	15489
55.0	21741	21401	20935	17803	13747	14939	16929	19288	21486	17101
57.5	19235	19287	18683	15489	12381	14180	17745	20796	23362	19131
60.0	15633	16029	15400	12665	10896	13370	18679	22356	25447	21150
62.5	10695	10807	10254	8550	8511	12312	19108	23700	26673	22062
65.0	5592	5720	5273	4434	5547	10762	18830	24170	25690	21489
67.5	3408	3597	3364	2433	3286	8564	18111	22405	23434	20120
70.0	1929	2413	2552	1630	2642	6941	15835	19408	20128	17347
72.5	575	793	958	629	2487	6036	12835	15883	15133	12651
75.0	344	374	397	388	1839	4503	9559	10771	9194	7650
77.5	229	234	251	281	887	2867	5474	5573	4445	3645
80.0	158	156	162	258	373	1292	2047	2119	1564	1420
82.5	95	97	102	137	143	308	508	574	462	416
85.0	44	48	50	59	63	81	100	97	95	95
87.5	12	13	14	17	21	28	40	49	48	44
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	21199	21199	21199	21199	21199	21199	21199	21199	21199	21199
2.5	21150	21302	21262	21242	21233	21214	21129	21139	21082	21098
5.0	20713	20804	20789	20763	20686	20586	20458	20458	20327	20346
7.5	20386	20433	20444	20332	20058	19703	19373	19139	19018	19154
10.0	19498	19557	19569	19360	18914	18486	18208	18028	18069	18307
12.5	18247	18316	18245	17901	17266	16997	17123	17496	17738	18105
15.0	16842	16899	16824	16254	15650	15808	16376	17192	17724	18192
17.5	15041	15116	15014	14456	14124	14687	15803	16970	17803	18375
20.0	13276	13262	13168	12656	12728	13644	15166	16733	17764	18426
22.5	12019	12064	11936	11264	11511	12737	14526	16264	17281	17661
25.0	11345	11348	11170	10506	10624	11722	13260	15040	15762	15601
27.5	11017	10985	10738	10091	10188	10922	11953	13028	13266	12542

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CANDELA TABULATION - (Cont.)

30.0	10976	10931	10608	9859	9963	10235	10324	10632	10205	9037
32.5	10935	10954	10620	9716	9762	9601	8674	7865	6802	5702
35.0	11023	11030	10700	9642	9557	8779	6991	5318	4090	3168
37.5	11373	11239	10761	9600	9346	7726	5299	3186	2257	1796
40.0	11834	11517	10947	9722	9078	6502	3723	1784	1291	1373
42.5	12083	11820	11202	9966	8775	5209	2478	1080	867	1208
45.0	12180	11894	11383	10398	8333	3905	1682	803	656	971
47.5	12331	12242	11944	11077	7745	2604	1358	705	537	686
50.0	13027	13020	12702	11952	7000	1747	1328	649	475	505
52.5	14275	14235	13834	12990	6076	1304	1267	590	441	430
55.0	15438	15455	15164	14193	5170	1126	1142	531	413	383
57.5	16636	16914	16604	14863	4190	1048	1010	459	387	344
60.0	17561	17786	17927	15513	3305	903	1004	408	364	319
62.5	17530	17545	17818	14783	2786	694	1007	393	339	300
65.0	16239	16079	16655	12713	2345	560	903	372	323	292
67.5	14706	14613	15271	10643	1885	490	762	313	299	277
70.0	12601	12508	13160	8532	1397	451	623	273	269	259
72.5	8776	8684	9431	5886	1008	421	528	241	259	242
75.0	5199	5122	5475	3115	602	382	466	216	231	216
77.5	2418	2467	2591	1394	369	314	371	184	172	191
80.0	907	848	924	489	249	234	250	144	131	179
82.5	270	276	293	196	148	154	144	105	112	119
85.0	87	87	90	90	85	78	87	69	65	67
87.5	42	42	42	41	33	29	26	25	25	24
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

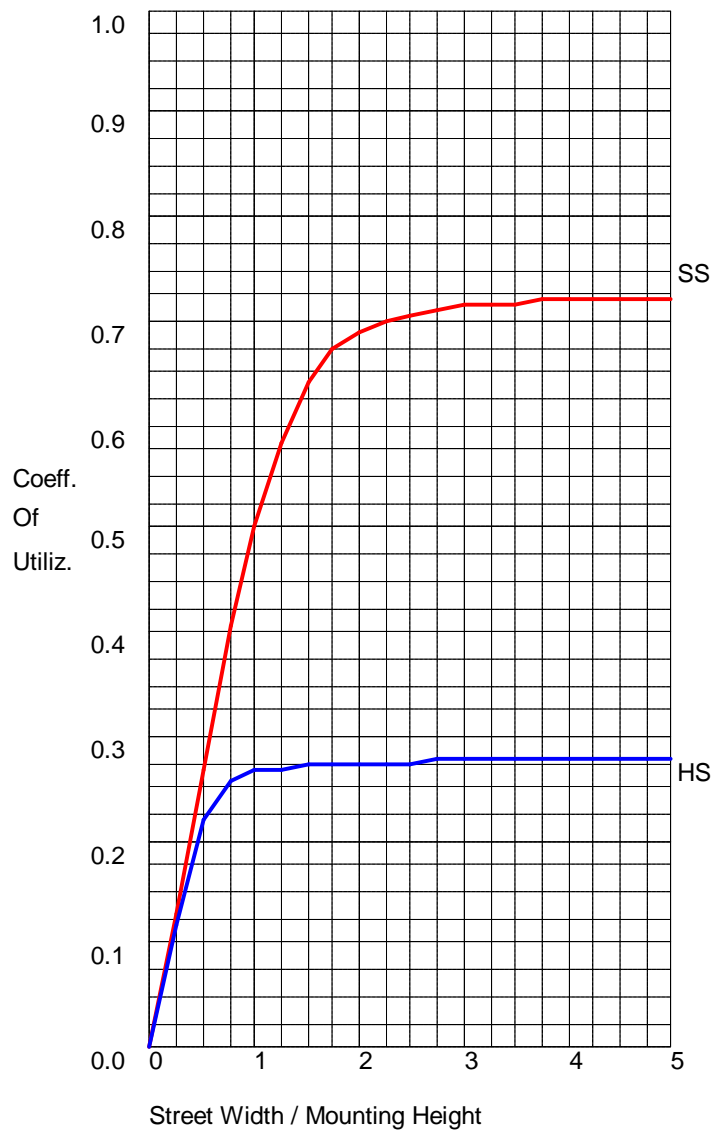
	175.0	180.0
0.0	21199	21199
2.5	21121	21225
5.0	20363	20418
7.5	19220	19261
10.0	18464	18606
12.5	18353	18520
15.0	18531	18716
17.5	18730	18934
20.0	18743	18882
22.5	17724	17868
25.0	15464	15572
27.5	12325	12352
30.0	8600	8805
32.5	5405	5604
35.0	3211	3411
37.5	2154	2353
40.0	1743	1929
42.5	1520	1751
45.0	1374	1657
47.5	1189	1507
50.0	924	1183
52.5	648	771
55.0	478	519
57.5	444	484
60.0	442	480
62.5	415	452
65.0	369	424

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CANDELA TABULATION - (Cont.)

67.5	336	399
70.0	307	362
72.5	289	335
75.0	271	316
77.5	245	285
80.0	212	247
82.5	145	162
85.0	66	71
87.5	24	25
90.0	0	0

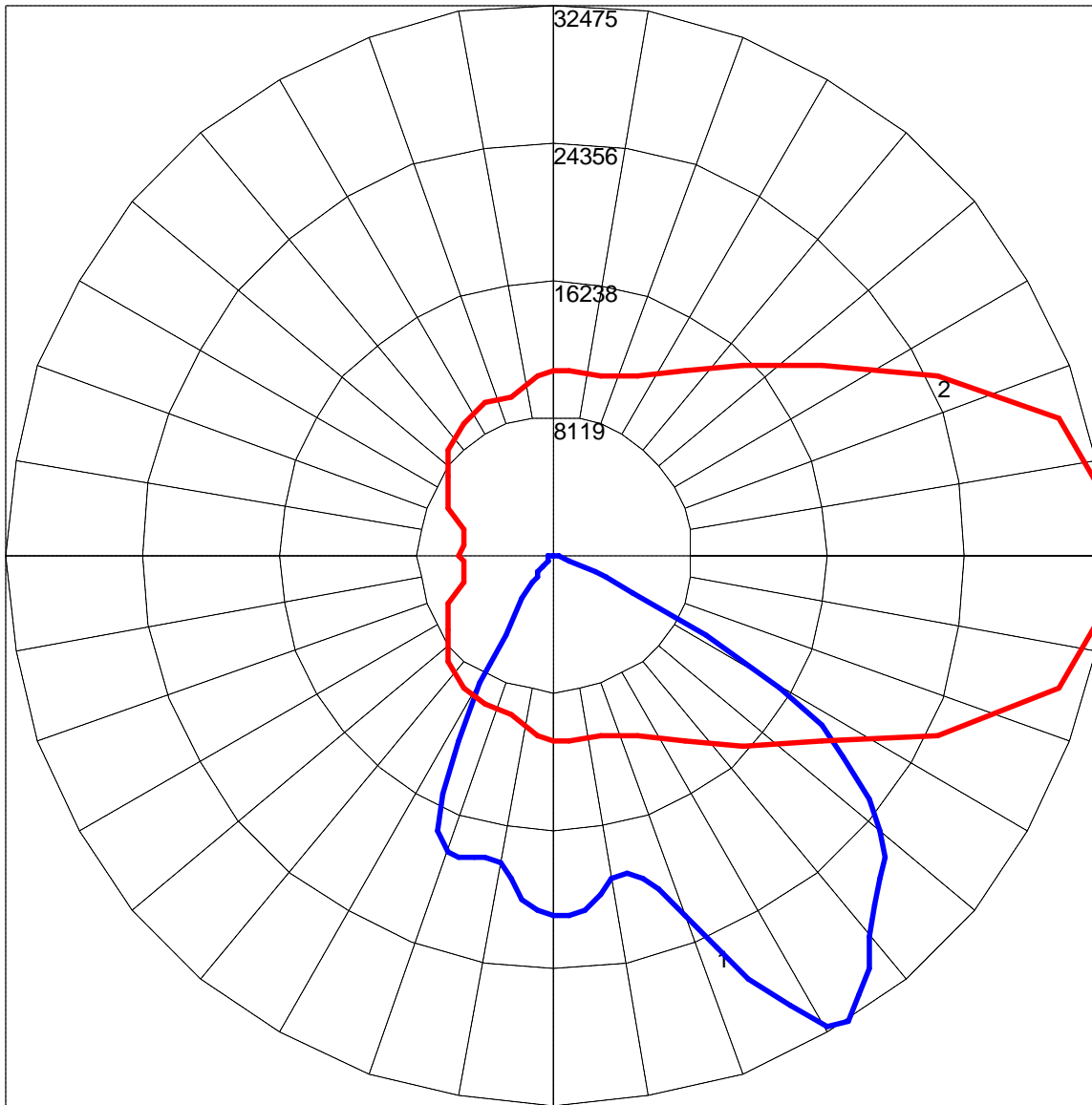
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

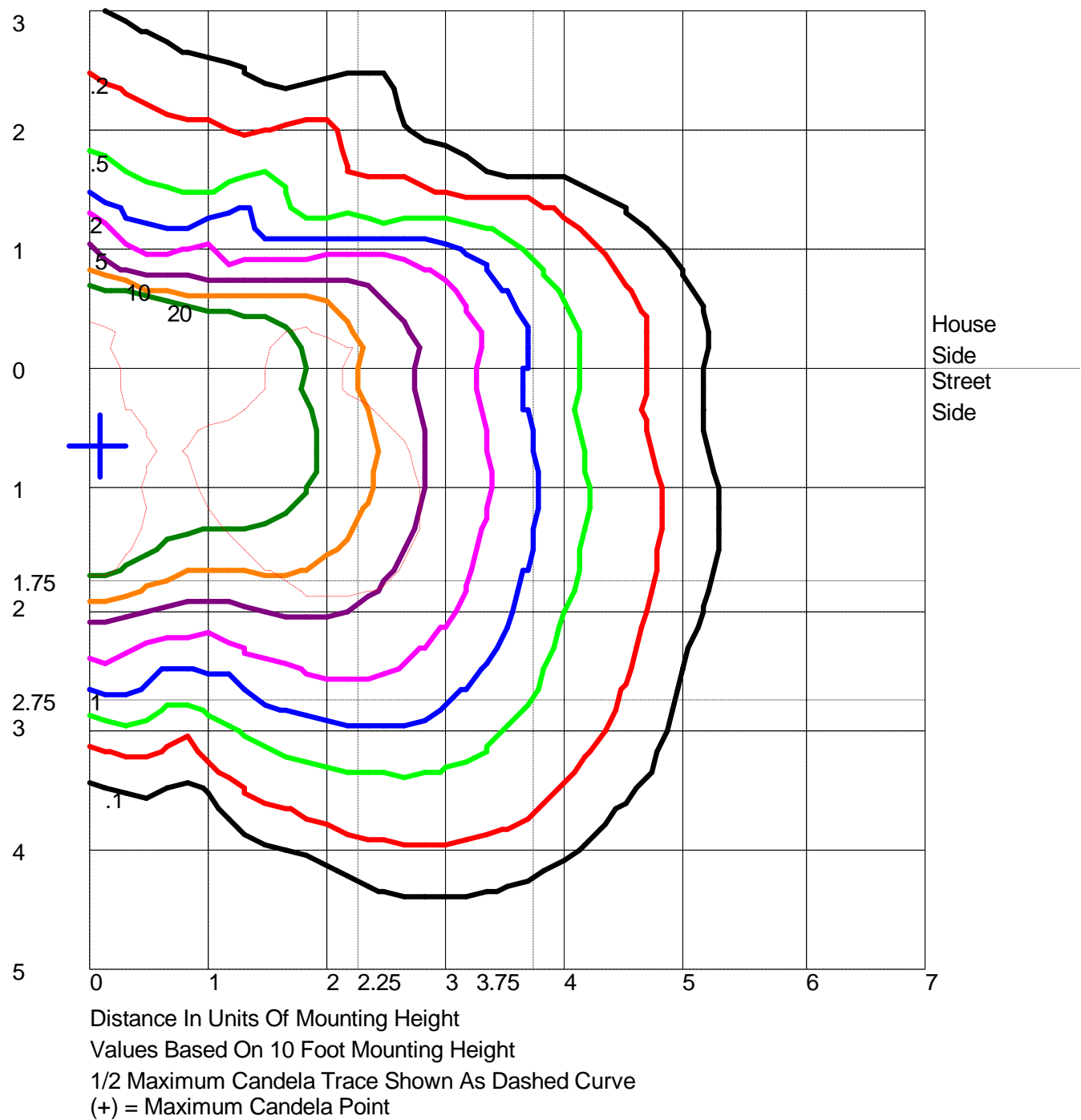
	Lumens	Percent Of Luminaire
Downward Street Side	38545.8	72.2
Downward House Side	14819.0	27.8
Downward Total	53364.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	53364.8	100.0

POLAR GRAPH

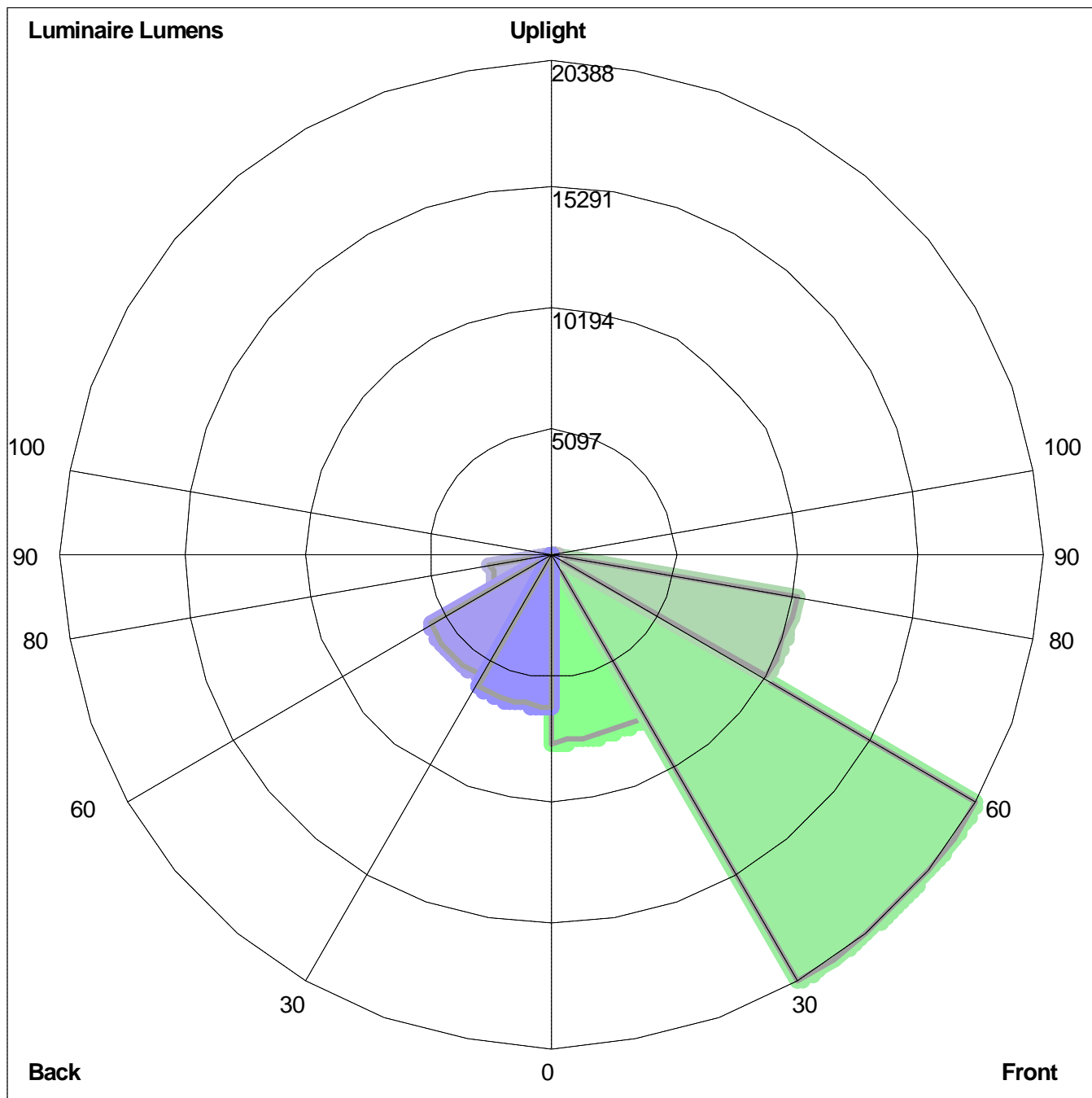


Maximum Candela = 32475 Located At Horizontal Angle = 7.5, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (7.5 - 187.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=7782.8, Medium=20387.6, High=10239.8, Very High=135.7
Back: Low=6313.7, Medium=5871.6, High=2576.5, Very High=57.1
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4