



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7310
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/29/15
[TEST DATE]09/29/15
[MANUFACT]LSI INDUSTRIES, INC
[LUMCAT]XLCL-3-LED-HO-NW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]35358
[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	35358
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	542.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23996
Maximum Candela Angle	7.5H 35V
Maximum Candela (<90 Degrees Vertical)	23996
Maximum Candela Angle (<90 Degrees Vertical)	7.5H 35V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2165 (6.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4954.0	N.A.	14.0
FM - Front-Medium (30-60)	15217.3	N.A.	43.0
FH - Front-High (60-80)	8207.0	N.A.	23.2
FVH - Front-Very High (80-90)	264.6	N.A.	0.7
BL - Back-Low (0-30)	3181.8	N.A.	9.0
BM - Back-Medium (30-60)	2488.8	N.A.	7.0
BH - Back-High (60-80)	1031.6	N.A.	2.9
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	35357.7	N.A.	100.0
BUG Rating	B4-U0-G4		

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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	12470	12470	12470	12470	12470	12470	12470	12470	12470	12470
2.5	12672	12728	12738	12721	12691	12687	12651	12644	12622	12587
5.0	12920	12968	12976	12921	12802	12691	12522	12433	12375	12317
7.5	13487	13523	13509	13403	12910	12546	12428	12350	12220	12135
10.0	12932	12932	12969	12890	12943	13039	12894	12153	11944	11708
12.5	12630	12642	12631	12494	12454	12593	12561	12203	11287	11092
15.0	12670	12698	12673	12510	12301	12175	11990	11468	10750	10222
17.5	12942	12962	12938	12791	12424	11941	11419	10609	9977	9235
20.0	14452	14409	14402	13766	12854	11844	10851	9752	8979	8366
22.5	16451	16180	16253	15661	14563	12236	10295	8924	8085	7536
25.0	18403	18221	18278	17621	16155	13195	9992	8248	7517	7022
27.5	20388	20162	20244	19496	17163	13797	10359	7881	7288	6962
30.0	22288	22071	21986	20876	17815	13774	10445	8040	7207	6939
32.5	23922	23874	23807	22219	17939	13327	10656	8439	7197	6877
35.0	23892	23893	23996	22328	17386	13163	10866	9029	7260	6891
37.5	23424	23348	23268	21325	16558	12929	11166	9587	7594	7091
40.0	23242	23195	23076	20491	15329	12642	11593	10123	8060	7406
42.5	22966	22867	22585	19813	14430	12209	11876	10845	8769	7667
45.0	22204	22065	21697	18544	13823	12073	11938	11680	9596	7953
47.5	22244	22127	21705	17875	12864	12255	11943	12434	10669	8147
50.0	21949	21870	21465	17374	12737	12411	12403	12972	11804	8646
52.5	21201	21075	20674	16614	12722	12702	12933	13750	13148	9532
55.0	19740	19478	19138	16067	12470	12812	13532	14737	14573	10506
57.5	18527	18160	17793	14668	11648	12678	14532	15988	15941	11708
60.0	16301	15769	15472	12663	10650	12523	15383	17283	17706	12836
62.5	12321	11851	11720	9462	9083	12078	16014	18419	18779	13732
65.0	7204	6733	6718	5480	6732	10867	16144	18958	18477	13400
67.5	4098	3990	3781	3073	4054	9146	15658	17855	16695	12506
70.0	3123	3276	3165	2382	2978	7082	14159	15536	14250	10523
72.5	1465	1694	1664	1340	2873	6055	11926	12681	10733	7592
75.0	1229	1250	1237	1053	2220	4859	9034	8576	6739	4689
77.5	1180	1155	1123	991	1434	3220	5241	4464	3089	2104
80.0	1130	1097	1061	937	893	1818	2165	1801	1142	926
82.5	1045	1013	986	859	679	763	756	578	386	249
85.0	920	888	853	697	528	468	407	225	155	107
87.5	736	720	691	565	446	411	352	183	113	73
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	12470	12470	12470	12470	12470	12470	12470	12470	12470	12470
2.5	12547	12550	12489	12461	12388	12351	12273	12271	12231	12236
5.0	12233	12174	12094	11975	11776	11626	11456	11361	11358	11369
7.5	12003	11923	11789	11514	11165	10878	10640	10633	10707	10816
10.0	11506	11388	11204	10787	10432	10295	10201	9826	9609	9790
12.5	10815	10662	10424	9854	9629	9595	9108	9335	9507	9739
15.0	9932	9762	9511	8954	8883	8584	8861	9294	9522	9765
17.5	8957	8789	8502	8054	7889	8031	8613	9174	9435	9592
20.0	7940	7777	7472	7128	7002	7486	8213	8799	9013	8942
22.5	7101	6960	6663	6367	6209	6852	7615	8093	7823	7044
25.0	6617	6471	6210	5693	5655	6174	6689	6556	5979	5305
27.5	6411	6246	5975	5432	5312	5470	5284	4834	4331	3580

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CANDELA TABULATION - (Cont.)

30.0	6394	6215	5925	5313	5109	4854	3937	3408	2664	2030
32.5	6427	6258	5932	5131	4947	4053	2835	2066	1322	1027
35.0	6482	6300	5971	4987	4743	3339	1934	1013	709	667
37.5	6818	6427	6007	4943	4436	2563	1196	515	486	546
40.0	7206	6619	6145	5018	3894	1886	735	358	351	497
42.5	7370	6832	6331	5122	3503	1260	539	309	269	420
45.0	7376	6847	6368	5276	2868	808	470	267	219	290
47.5	7458	7096	6688	5511	2363	550	448	235	189	207
50.0	8101	7721	7251	5721	1853	451	432	211	172	172
52.5	8812	8399	7887	5772	1424	428	391	192	152	147
55.0	9561	9080	8667	5909	1158	400	334	167	134	127
57.5	10209	9770	9358	5823	925	368	293	135	120	113
60.0	10572	10153	10074	5632	750	296	295	116	106	98
62.5	10429	9939	9945	5020	655	212	285	101	95	87
65.0	9517	9004	8912	4180	541	174	221	87	83	77
67.5	8442	7971	7872	3509	436	152	167	76	71	64
70.0	6975	6575	6473	2586	305	141	121	63	56	44
72.5	4684	4437	4283	1612	248	121	89	49	38	19
75.0	2666	2581	2509	787	165	96	60	29	9	0
77.5	1058	966	1053	333	114	73	35	15	6	0
80.0	441	396	396	120	71	45	24	13	4	0
82.5	147	124	120	57	38	27	19	11	4	0
85.0	61	47	40	29	21	19	13	8	2	0
87.5	39	29	25	20	17	13	6	2	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

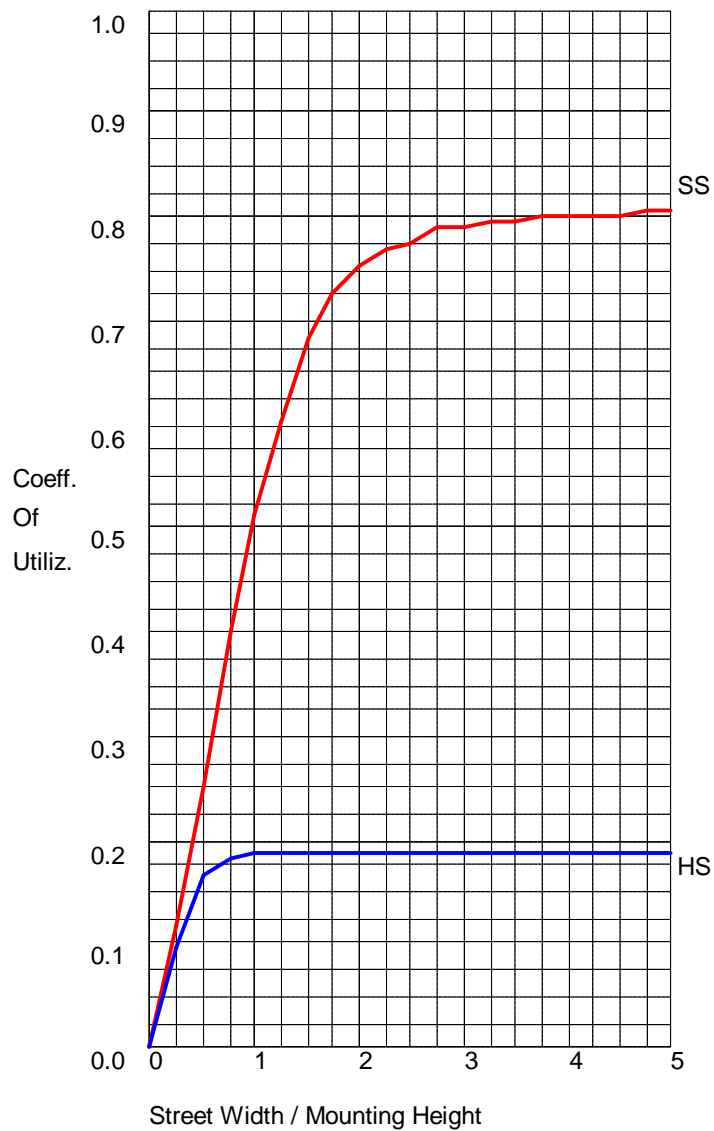
	<u>175.0</u>	<u>180.0</u>
0.0	12470	12470
2.5	12252	12251
5.0	11433	11440
7.5	10930	10947
10.0	9952	9980
12.5	9927	9953
15.0	9971	9999
17.5	9739	9720
20.0	8966	8898
22.5	6880	6861
25.0	5186	5172
27.5	3429	3428
30.0	1941	1973
32.5	1186	1250
35.0	933	1011
37.5	741	818
40.0	643	728
42.5	583	686
45.0	489	590
47.5	400	482
50.0	247	284
52.5	186	200
55.0	159	172
57.5	144	155
60.0	125	132
62.5	102	109
65.0	84	89

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CANDELA TABULATION - (Cont.)

67.5	64	64
70.0	38	38
72.5	7	5
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

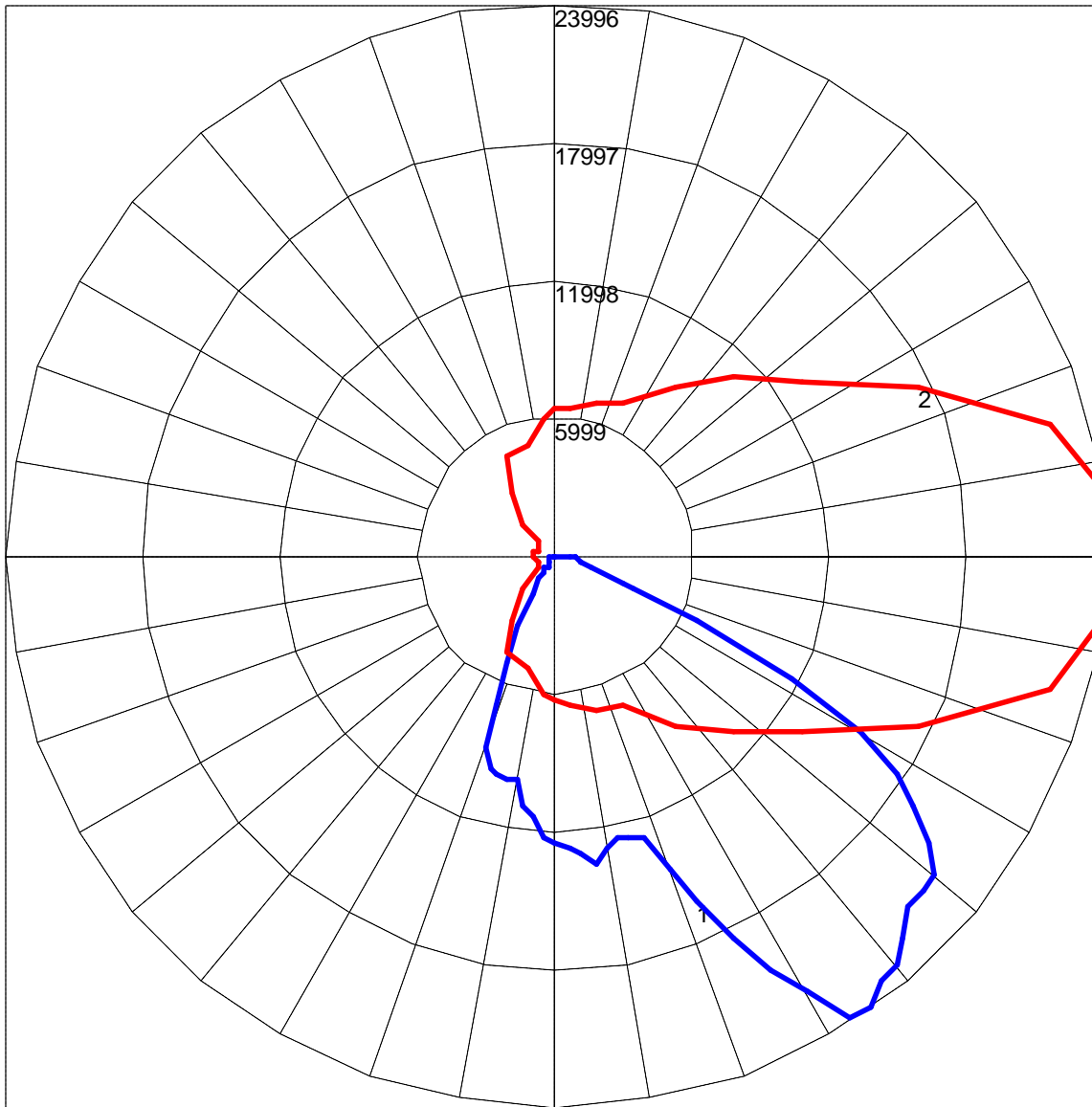
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

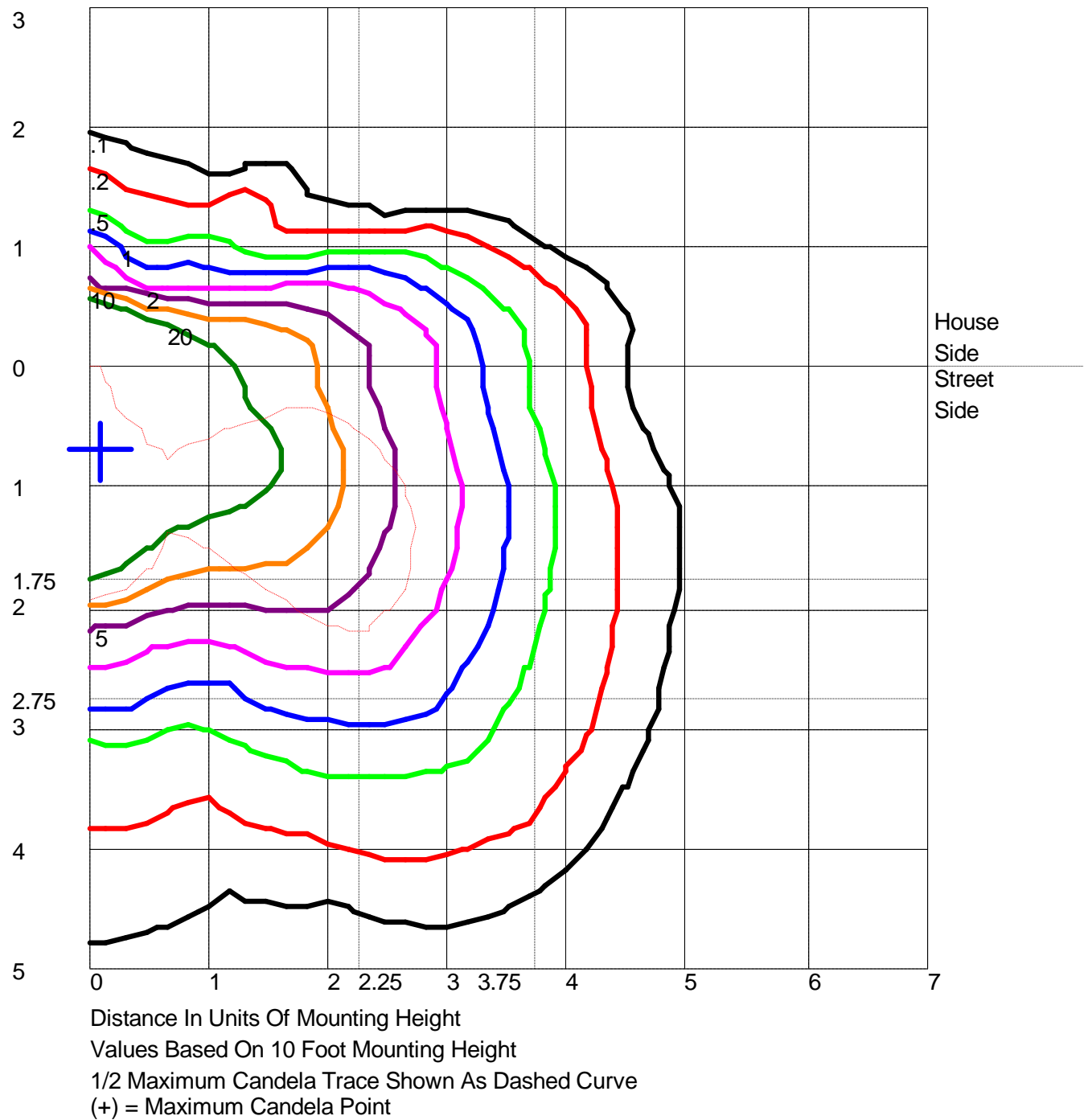
	Lumens	Percent Of Luminaire
Downward Street Side	28642.9	81.0
Downward House Side	6714.7	19.0
Downward Total	35357.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	35357.6	100.0

POLAR GRAPH

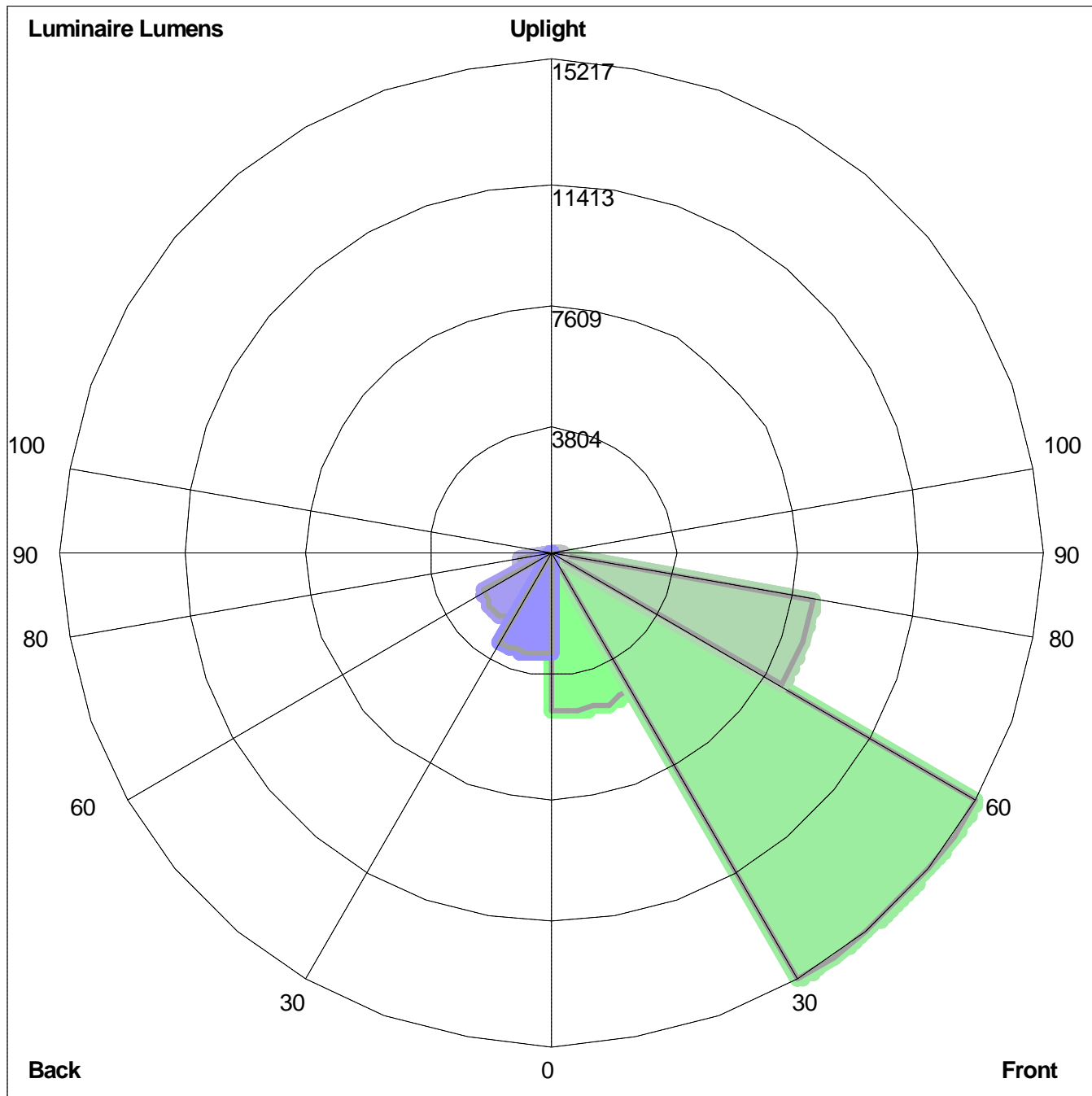


Maximum Candela = 23996 Located At Horizontal Angle = 7.5, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (7.5 - 187.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 4954.0, Medium=15217.3, High= 8207.0, Very High=264.6
Back: Low=3181.8, Medium=2488.8, High=1031.6, Very High=12.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4