



IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-5-LED-HO-CW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7167
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]08/21/15
[TEST DATE]08/21/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-5-LED-HO-CW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]36076
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	36077
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	543.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15869
Maximum Candela Angle	0H 62.5V
Maximum Candela (<90 Degrees Vertical)	15869
Maximum Candela Angle (<90 Degrees Vertical)	0H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2685 (7.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3644.5	N.A.	10.1
FM - Front-Medium (30-60)	8846.0	N.A.	24.5
FH - Front-High (60-80)	7874.7	N.A.	21.8
FVH - Front-Very High (80-90)	442.7	N.A.	1.2
BL - Back-Low (0-30)	3652.2	N.A.	10.1
BM - Back-Medium (30-60)	8125.3	N.A.	22.5
BH - Back-High (60-80)	3447.3	N.A.	9.6
BVH - Back-Very High (80-90)	43.8	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	36076.5	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</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	10850	10850	10850	10850	10850	10850	10850	10850	10850	10850
2.5	10936	10871	10939	10923	10895	10899	10899	10899	10896	10899
5.0	11054	10975	11056	11024	10930	10906	10892	10887	10876	10871
7.5	11753	11655	11731	11518	11131	10980	10942	10858	10804	10800
10.0	11638	11561	11639	11630	11564	11539	11267	10712	10642	10582
12.5	10986	10916	10991	11010	10912	10963	10971	10823	10181	10046
15.0	10057	10020	10089	10102	10094	10175	10142	10160	9647	9321
17.5	9271	9187	9289	9224	9100	9116	9191	9210	9265	8733
20.0	9316	9279	9201	8608	8107	7943	8048	8275	8604	8391
22.5	9122	9011	9063	8715	8068	6840	6893	7339	8086	8488
25.0	8876	8759	8749	8282	7354	6598	5875	6580	7772	8408
27.5	8767	8650	8610	7936	6816	5837	5563	6075	7375	8319
30.0	8765	8638	8590	7704	6312	5328	5044	5500	6907	8124
32.5	9527	9390	9359	8358	5955	4884	4723	5321	6390	7950
35.0	9346	9240	9237	8056	6128	4706	4624	5005	5934	7776
37.5	8979	8921	8940	7651	5759	4964	4561	4774	5615	7610
40.0	9641	9529	9537	7317	5465	4919	4763	4714	5595	7452
42.5	9972	9834	9726	7819	5788	4888	4966	4784	5691	7325
45.0	10124	9919	9781	7590	6040	5163	5025	5120	5735	7356
47.5	11034	10732	10566	7655	6005	5698	5175	5672	6033	7581
50.0	11952	11672	11504	8838	6763	5784	6022	6144	6569	7969
52.5	12173	12053	11865	9084	7946	6416	6591	6803	7444	8537
55.0	13668	13402	13265	10494	8754	7773	7148	7857	8314	8828
57.5	13977	13622	13476	11173	10370	8724	8701	8778	9004	9569
60.0	14936	14312	14301	12870	10777	10556	9798	9302	9194	9917
62.5	15869	15418	15275	13416	11963	11438	10953	10152	9389	9886
65.0	14266	13743	13607	13544	13063	12429	11628	10531	9131	9505
67.5	11916	11282	11109	11368	11797	12998	12114	10376	8297	7808
70.0	9520	8914	8667	9109	9870	11531	11927	9349	6907	5813
72.5	7275	6752	6457	7120	7818	9568	9699	7587	5137	3909
75.0	5104	4712	4481	5164	5917	7259	6951	5606	3449	2457
77.5	3300	3205	2985	3594	4122	4672	4269	3424	2099	1338
80.0	2257	2167	2098	2538	2646	2685	2382	1945	1098	636
82.5	1582	1544	1547	1946	1612	1576	1324	1023	520	288
85.0	1202	1184	1205	1367	1122	1043	800	527	223	118
87.5	874	867	874	894	861	756	585	371	154	61
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	10850	10850	10850	10850	10850	10850	10850	10850	10850	10850
2.5	10887	10869	10879	10850	10858	10824	10803	10852	10849	10834
5.0	10844	10818	10815	10788	10791	10744	10703	10755	10763	10761
7.5	10759	10711	10704	10679	10634	10611	10592	10648	10673	10700
10.0	10508	10435	10423	10366	10358	10339	10308	9887	9775	9802
12.5	9864	9793	9808	9778	9785	9718	9242	9439	9560	9626
15.0	9166	9132	9179	9246	9310	8712	8904	9201	9408	9547
17.5	8613	8585	8578	8608	8511	8449	8661	8877	9241	9538
20.0	8451	8398	8355	8222	7808	7986	8327	8635	9178	9594
22.5	8436	8357	8283	8050	7525	7616	7907	8396	8604	8661
25.0	8275	8212	8153	7808	7415	7404	7606	7665	8091	8449
27.5	8169	8120	8037	7578	7360	7339	7168	7399	7846	8214

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CANDELA TABULATION - (Cont.)

30.0	8139	8117	7989	7220	7201	7345	6833	7115	7553	8063
32.5	8186	8161	8038	7180	7093	7006	6787	6785	7362	7442
35.0	8209	8210	8082	7360	7129	6603	6643	6670	6671	7098
37.5	8095	8024	7821	7221	7124	6493	6429	6214	6487	7076
40.0	7926	7824	7739	7129	6861	6392	6160	6151	6428	7112
42.5	8182	8114	7982	7142	6616	6257	5808	6117	6404	6710
45.0	8735	8558	8386	7272	6397	6153	5768	6221	6392	6905
47.5	9333	9052	8808	7462	6387	5755	5837	6079	6667	7354
50.0	9591	9243	8764	7792	6430	5599	5711	6276	6986	7645
52.5	9631	9232	8517	7803	6634	5617	5614	6577	7676	8416
55.0	9573	9155	8439	7428	6212	5688	5931	7028	8313	8477
57.5	9616	9191	8383	7096	5724	5333	6107	7642	8335	8813
60.0	9724	8902	8200	6851	5735	5518	6762	7548	8178	7467
62.5	9289	8218	7757	6611	5532	5437	6543	7468	7032	7052
65.0	8011	7139	6723	5989	4712	5595	6580	6496	5685	5314
67.5	6341	5748	5225	4680	4282	4816	5638	5170	4478	3615
70.0	4643	4231	3892	3495	3400	4345	4730	3902	2109	855
72.5	3179	2863	2655	2418	2667	3575	3456	1990	501	0
75.0	1926	1767	1636	1615	1882	2715	1844	809	336	0
77.5	986	913	868	975	1206	1599	843	420	184	0
80.0	464	428	400	601	622	800	363	141	67	0
82.5	171	164	168	385	207	277	89	17	0	0
85.0	48	49	60	129	25	35	1	0	0	0
87.5	15	10	9	4	1	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

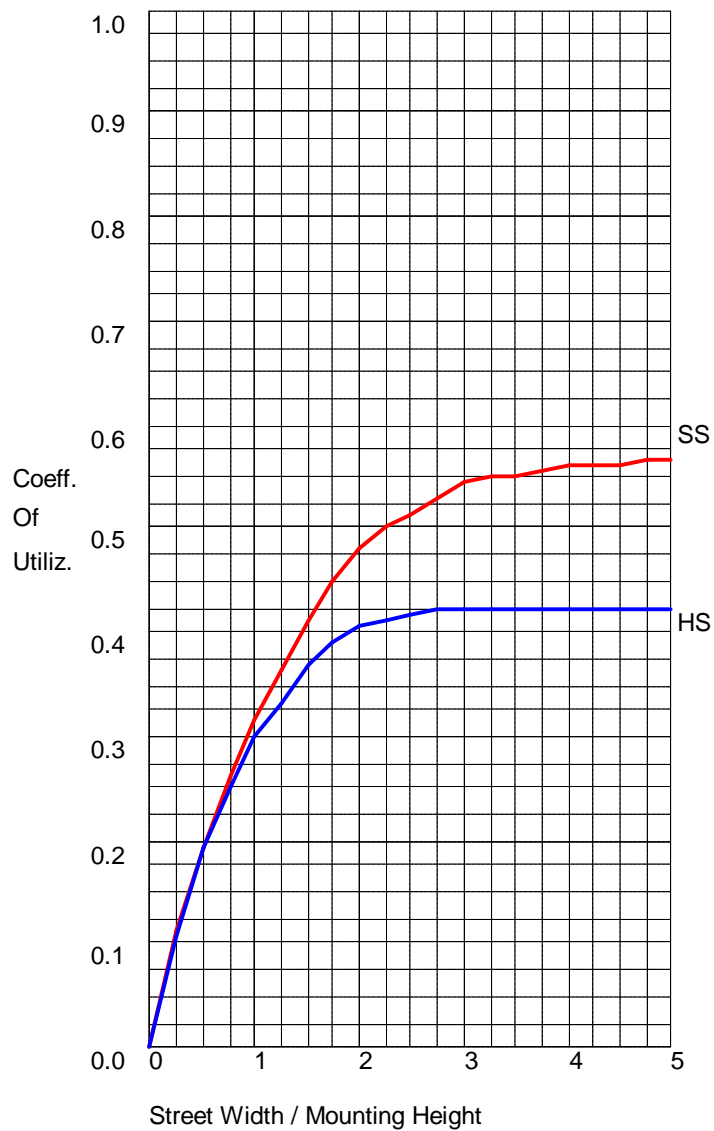
	<u>175.0</u>	<u>180.0</u>
0.0	10850	10850
2.5	10842	10888
5.0	10761	10805
7.5	10736	10769
10.0	9852	9896
12.5	9686	9736
15.0	9587	9637
17.5	9647	9746
20.0	9723	9765
22.5	8800	8849
25.0	8625	8680
27.5	8497	8561
30.0	8413	8483
32.5	7454	7519
35.0	7342	7390
37.5	7324	7292
40.0	7278	7150
42.5	7015	6970
45.0	7357	7355
47.5	7472	7403
50.0	8133	8182
52.5	8657	8709
55.0	8526	8546
57.5	8477	8455
60.0	7355	7365
62.5	6500	6411
65.0	5183	5152

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CANDELA TABULATION - (Cont.)

67.5	2990	2890
70.0	242	164
72.5	0	0
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

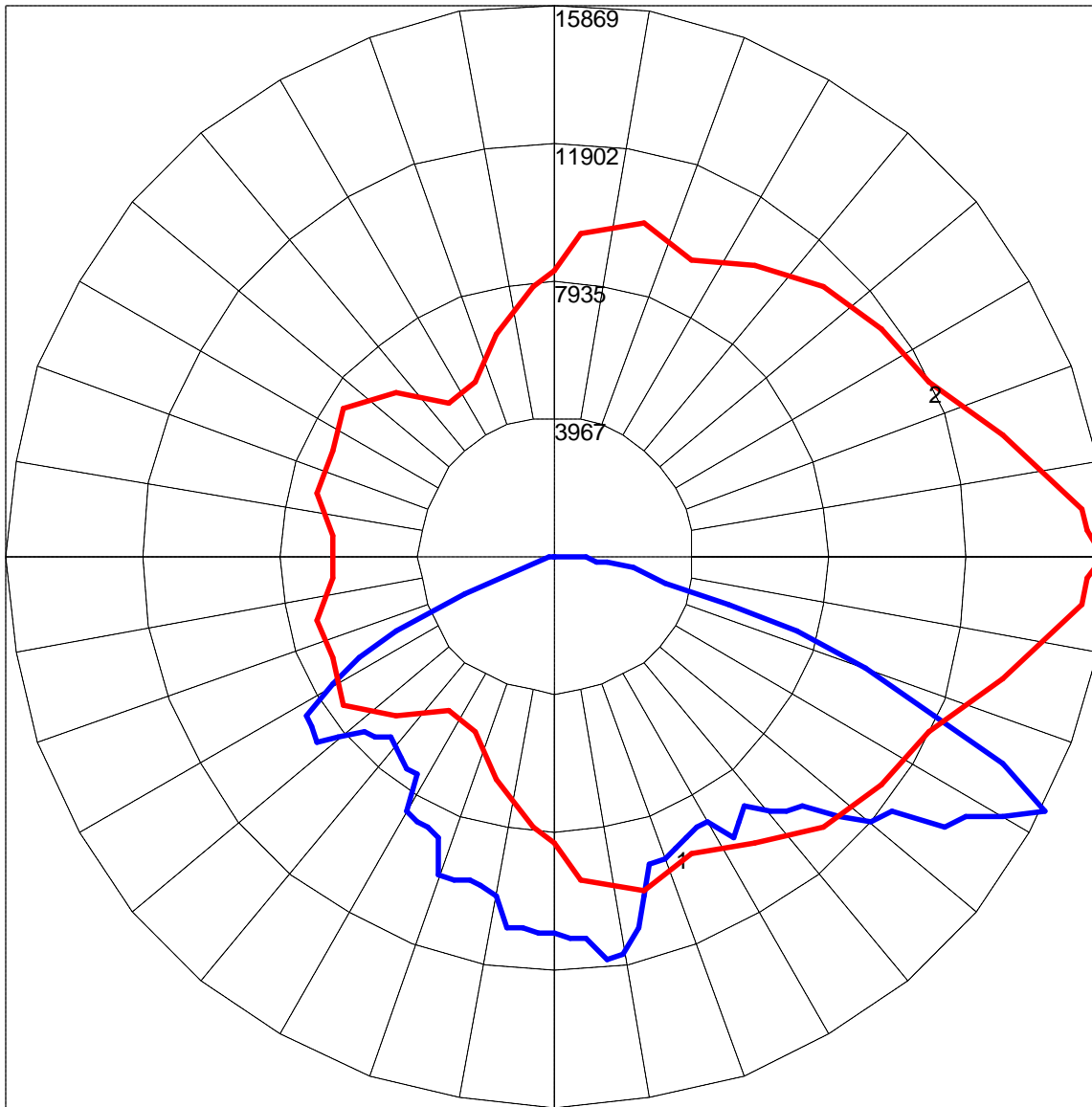
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

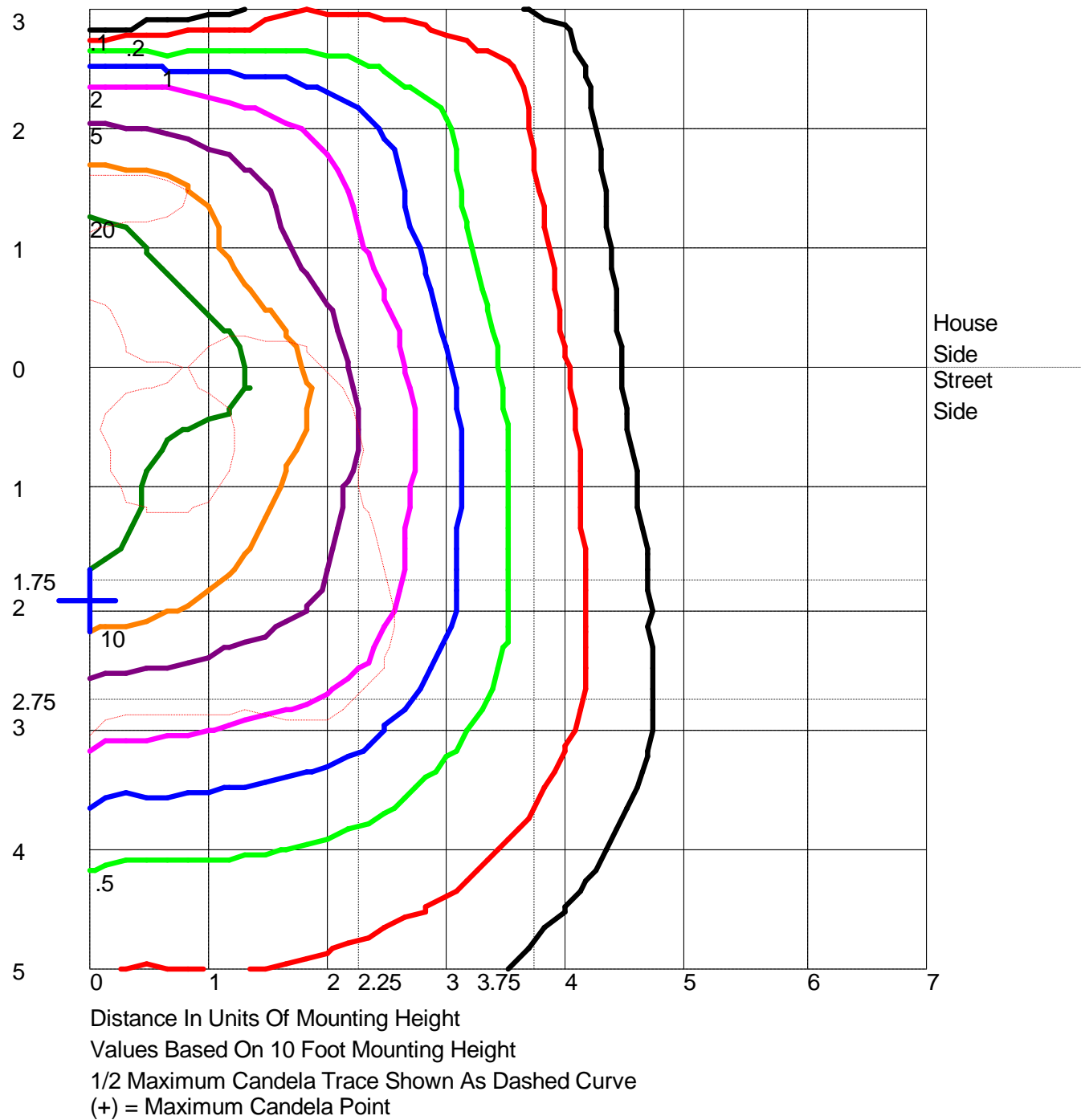
	Lumens	Percent Of Luminaire
Downward Street Side	20807.9	57.7
Downward House Side	15268.6	42.3
Downward Total	36076.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	36076.5	100.0

POLAR GRAPH

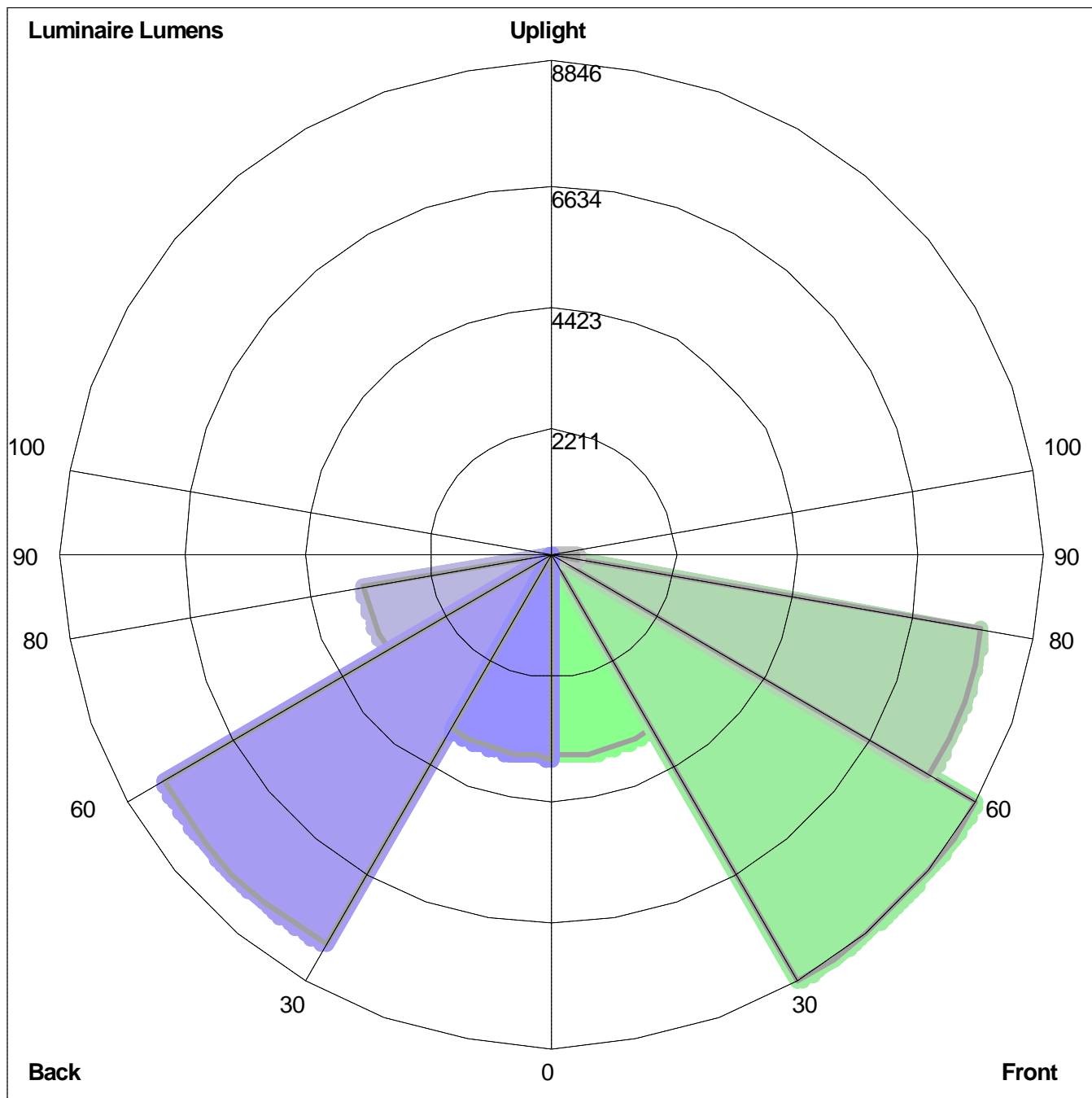


Maximum Candela = 15869 Located At Horizontal Angle = 0, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3644.5, Medium= 8846.0, High=7874.7, Very High=442.7
Back: Low=3652.2, Medium=8125.3, High=3447.3, Very High=43.8
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4