



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7299
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/25/15
[TEST DATE]09/25/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-3-LED-HO-CW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]36015
[SEARCH SOURCE TYPE] 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	36015
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	542.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24300
Maximum Candela Angle	5H 32.5V
Maximum Candela (<90 Degrees Vertical)	24300
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	1670 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	5075.0	N.A.	14.1
FM - Front-Medium (30-60)	15467.2	N.A.	42.9
FH - Front-High (60-80)	8023.1	N.A.	22.3
FVH - Front-Very High (80-90)	231.2	N.A.	0.6
BL - Back-Low (0-30)	3313.0	N.A.	9.2
BM - Back-Medium (30-60)	2771.5	N.A.	7.7
BH - Back-High (60-80)	1120.5	N.A.	3.1
BVH - Back-Very High (80-90)	13.7	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	36015.2	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	12289	12289	12289	12289	12289	12289	12289	12289	12289	12289
2.5	12411	12434	12442	12400	12399	12400	12383	12372	12374	12377
5.0	12474	12513	12509	12492	12458	12444	12414	12347	12247	12183
7.5	12868	12909	12918	12939	12911	12945	12513	12185	12129	11991
10.0	12427	12449	12444	12411	12426	12555	12654	12604	11739	11603
12.5	12384	12389	12369	12272	12135	12128	12157	12038	11606	10919
15.0	12617	12627	12587	12491	12206	11906	11661	11325	10845	10050
17.5	13222	13246	13180	13041	12559	11876	11207	10509	9870	9234
20.0	15408	15471	15427	15069	13720	12103	10841	9688	8947	8549
22.5	17650	17515	17523	17026	15284	13340	10593	8957	8179	7811
25.0	19555	19433	19417	18749	16914	14271	11109	8475	7695	7343
27.5	21332	21205	21130	20347	17834	14615	11201	8328	7459	7088
30.0	23518	23443	23331	21818	18211	14374	11300	8937	7386	7013
32.5	24287	24300	24274	22474	18195	13849	11293	9258	7491	6967
35.0	23597	23618	23537	22153	17621	13695	11368	9792	7663	6983
37.5	22915	22994	22935	20963	16257	13190	11578	10241	8298	7185
40.0	23006	22929	22667	20445	14909	12637	11887	10745	8823	7455
42.5	22597	22621	22268	19496	14185	12218	12071	11322	9596	7804
45.0	22134	22142	21690	18272	13378	12292	11936	12107	10422	8095
47.5	22515	22685	22236	17979	12727	12497	12161	12615	11386	8470
50.0	21463	21679	21267	17594	13018	12533	12683	12975	12529	9180
52.5	21087	21064	20634	17053	12701	12981	12937	13548	14117	10394
55.0	19317	19097	18627	15688	12483	12760	13658	14644	15764	11554
57.5	18181	18175	17614	14625	11203	12693	14635	16156	17204	12755
60.0	15170	15068	14749	11981	10172	11967	16023	17610	18583	13887
62.5	10226	10023	9883	8180	8242	11270	16779	18914	19600	14611
65.0	5534	5436	5239	4218	5331	10104	16993	19496	19084	14270
67.5	3781	3835	3715	2684	3304	8281	16392	18083	17057	12798
70.0	2262	2561	2738	1890	2977	6943	14610	15664	14193	10768
72.5	1301	1466	1524	1162	2768	6038	11712	12264	10269	7486
75.0	1203	1204	1178	1027	2094	4484	8317	7819	5961	4238
77.5	1166	1145	1117	972	1204	2752	4414	3790	2529	1854
80.0	1106	1078	1053	959	795	1307	1670	1325	893	770
82.5	1002	980	955	774	592	563	564	391	290	222
85.0	849	822	797	635	491	440	389	216	153	110
87.5	731	709	684	545	433	394	346	179	109	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	12289	12289	12289	12289	12289	12289	12289	12289	12289	12289
2.5	12367	12354	12331	12285	12270	12243	12202	12213	12189	12166
5.0	12148	12098	12072	11998	11921	11822	11713	11597	11576	11531
7.5	11908	11826	11812	11663	11457	11182	10915	10759	10778	10808
10.0	11399	11291	11283	11034	10674	10387	10264	10251	10235	10045
12.5	10709	10584	10562	10162	9706	9635	9634	9182	9379	9547
15.0	9858	9724	9645	9168	8885	8978	8617	9035	9352	9586
17.5	8898	8768	8679	8163	8147	7885	8368	8923	9346	9628
20.0	7936	7843	7725	7229	7249	7353	8095	8732	9183	9419
22.5	7186	7111	6954	6479	6162	6793	7618	8363	8643	8440
25.0	6739	6649	6464	6061	5686	6220	6992	7557	6904	6475
27.5	6489	6391	6171	5752	5395	5704	6150	5762	5356	4778

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CANDELA TABULATION - (Cont.)

30.0	6469	6373	6100	5486	5192	5260	4751	4340	3765	3084
32.5	6475	6392	6106	5199	5056	4763	3621	2997	2169	1562
35.0	6577	6459	6148	5039	4915	3966	2661	1725	1069	814
37.5	6897	6630	6195	4999	4773	3114	1836	851	595	619
40.0	7286	6811	6319	5056	4579	2429	1124	460	427	527
42.5	7525	7021	6463	5164	4206	1781	722	359	320	467
45.0	7596	6989	6556	5384	3466	1146	586	304	255	369
47.5	7789	7262	6982	5750	2981	670	564	267	210	256
50.0	8443	7865	7575	6227	2480	481	550	236	188	193
52.5	9240	8599	8225	6732	1938	454	517	210	166	159
55.0	9963	9316	9001	7058	1507	426	443	190	145	140
57.5	10607	9897	9727	6982	1176	395	375	154	131	122
60.0	11012	10270	10258	6774	942	331	354	132	116	108
62.5	10915	10173	10176	6208	803	247	355	116	102	95
65.0	9981	9164	9320	5044	655	197	282	101	92	83
67.5	8665	7907	8221	4000	482	164	209	84	80	70
70.0	7084	6469	6883	2902	318	147	157	69	65	54
72.5	4647	4303	4748	1793	252	132	105	57	45	34
75.0	2623	2438	2705	853	176	111	72	40	22	0
77.5	1092	1045	1073	305	128	86	44	18	7	0
80.0	408	367	384	107	82	59	25	15	6	0
82.5	129	114	115	64	48	37	21	13	5	0
85.0	64	49	44	35	27	22	17	12	5	0
87.5	38	29	27	23	20	17	10	6	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

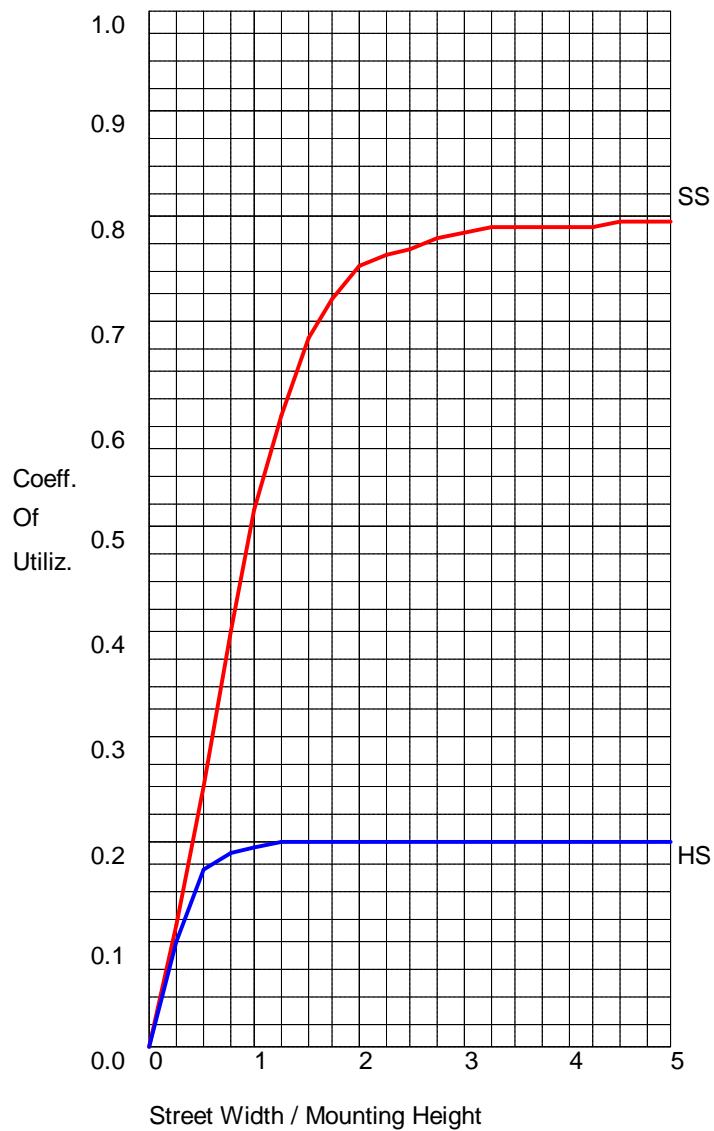
	175.0	180.0
0.0	12289	12289
2.5	12142	12261
5.0	11483	11595
7.5	10801	10930
10.0	9866	9964
12.5	9662	9795
15.0	9730	9865
17.5	9756	9891
20.0	9476	9616
22.5	7898	7839
25.0	6203	6257
27.5	4471	4508
30.0	2776	2804
32.5	1528	1572
35.0	1022	1094
37.5	819	886
40.0	685	755
42.5	602	681
45.0	513	594
47.5	439	531
50.0	331	397
52.5	211	237
55.0	165	177
57.5	153	166
60.0	135	144
62.5	115	127
65.0	94	106

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CANDELA TABULATION - (Cont.)

67.5	75	83
70.0	50	51
72.5	28	26
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

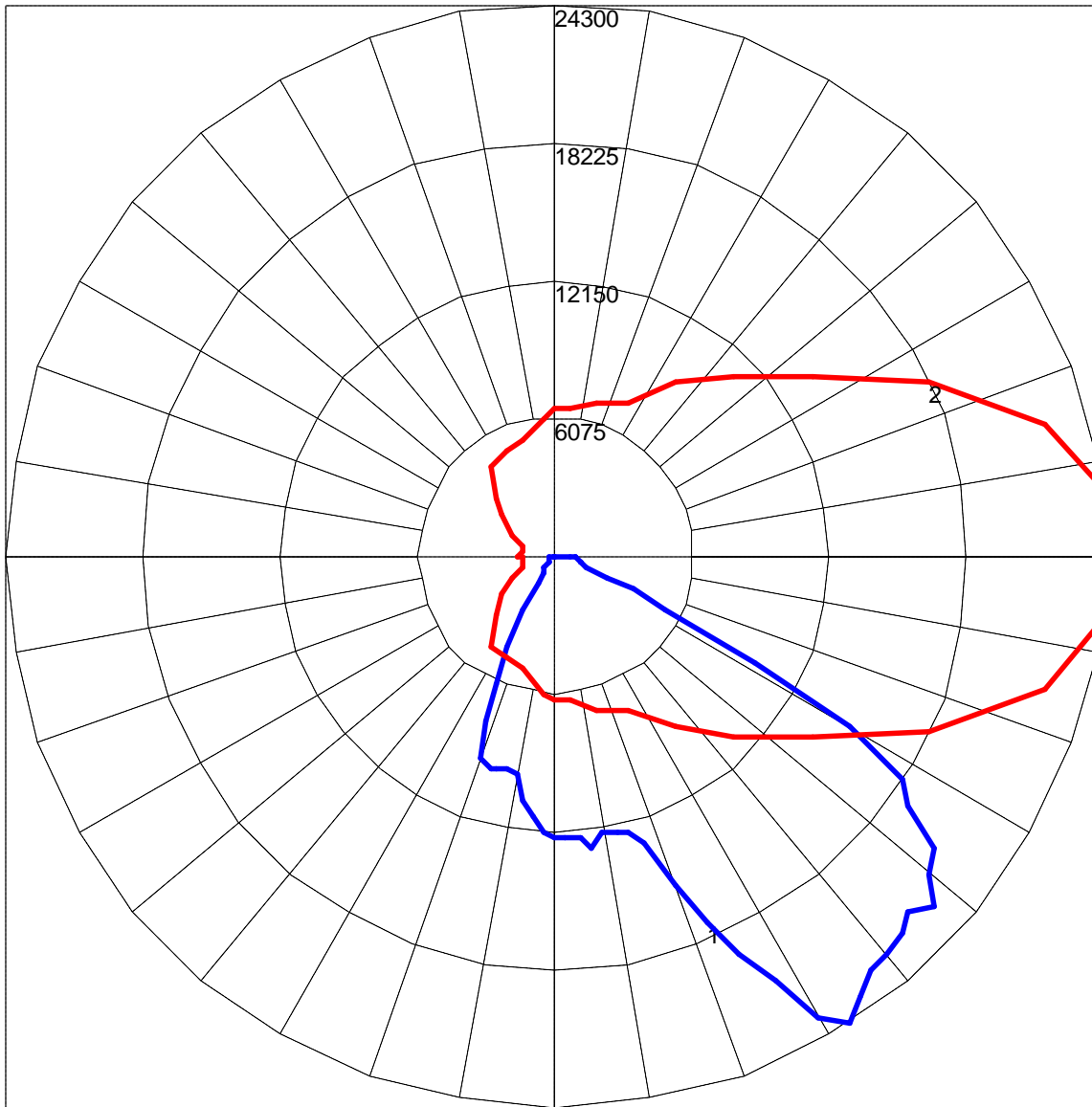
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

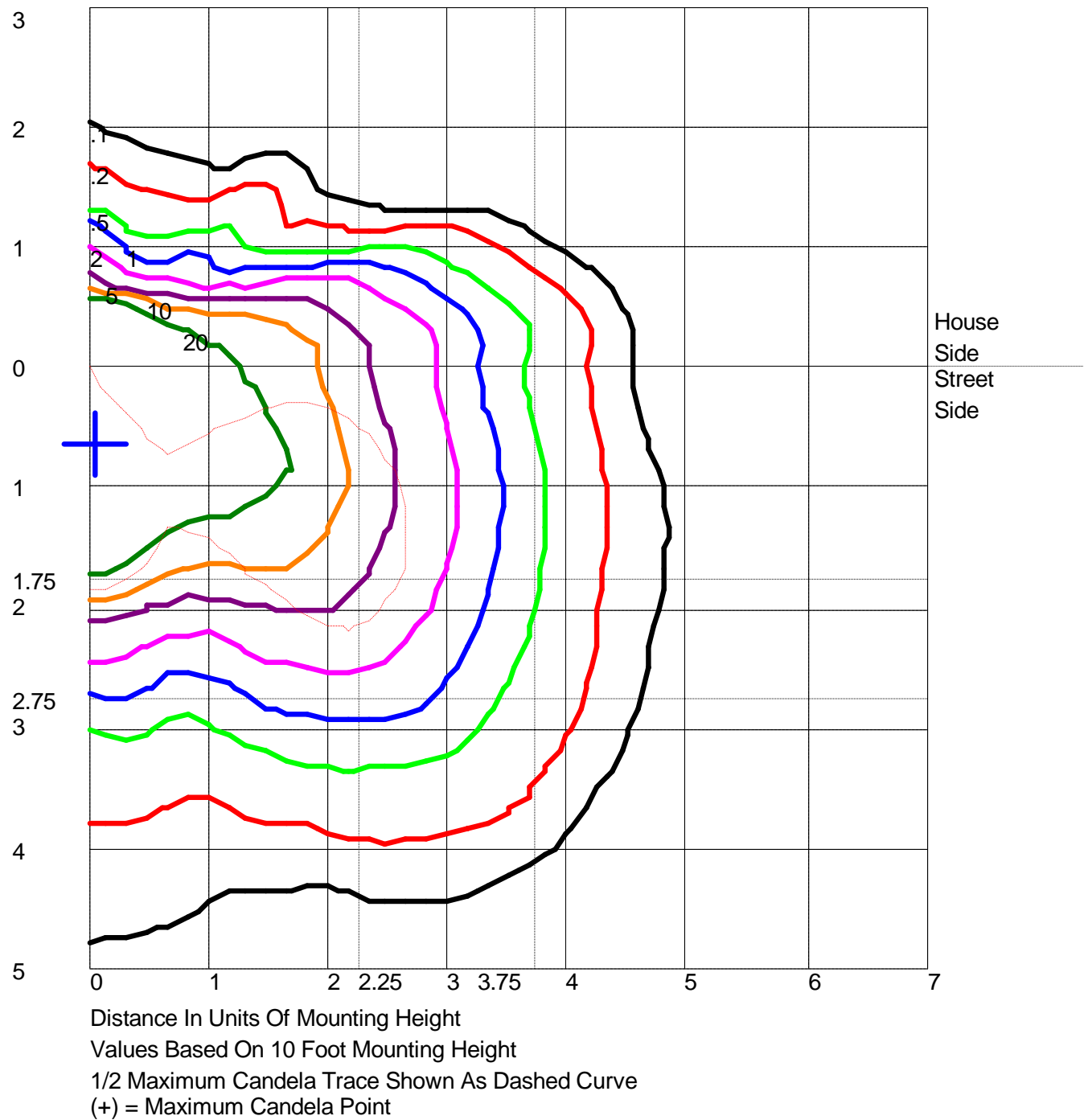
	Lumens	Percent Of Luminaire
Downward Street Side	28796.5	80.0
Downward House Side	7218.6	20.0
Downward Total	36015.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	36015.1	100.0

POLAR GRAPH

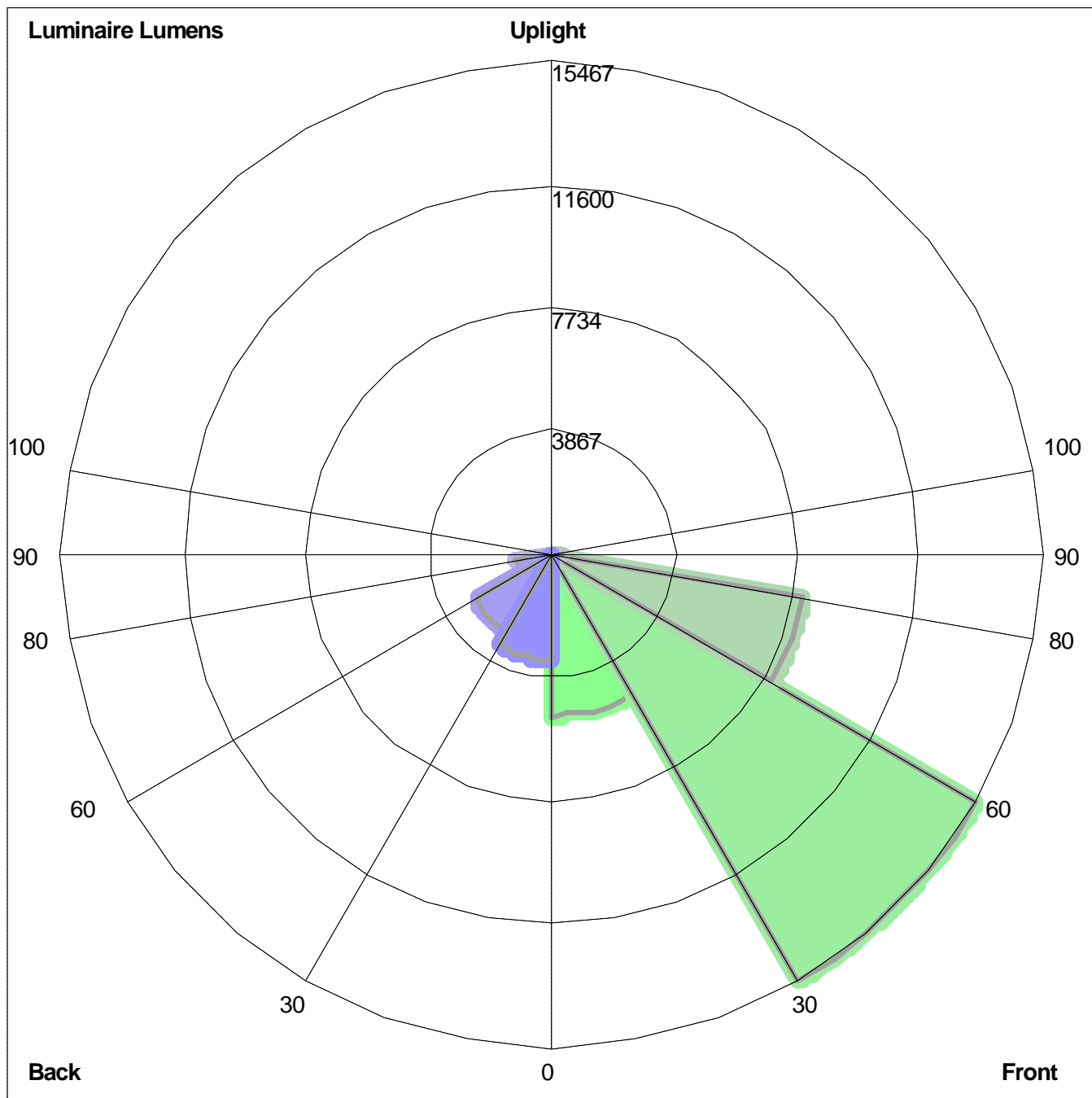


Maximum Candela = 24300 Located At Horizontal Angle = 5, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 5075.0, Medium=15467.2, High=8023.1, Very High=231.2
Back: Low= 3313.0, Medium=2771.5, High=1120.5, Very High=13.7
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4