

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7171
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]08/21/15
[TEST DATE]08/21/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-5-LED-SS-CW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]31200
[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	31200
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	427.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13730
Maximum Candela Angle	0H 62.5V
Maximum Candela (<90 Degrees Vertical)	13730
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	2144 (6.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3140.9	N.A.	10.1
FM - Front-Medium (30-60)	7581.2	N.A.	24.3
FH - Front-High (60-80)	6834.7	N.A.	21.9
FVH - Front-Very High (80-90)	345.3	N.A.	1.1
BL - Back-Low (0-30)	3163.4	N.A.	10.1
BM - Back-Medium (30-60)	6934.9	N.A.	22.2
BH - Back-High (60-80)	3154.6	N.A.	10.1
BVH - Back-Very High (80-90)	45.1	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	31200.1	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	9395	9395	9395	9395	9395	9395	9395	9395	9395	9395
2.5	9451	9441	9464	9457	9424	9422	9422	9415	9428	9427
5.0	9619	9608	9627	9598	9531	9464	9419	9391	9388	9375
7.5	10310	10294	10310	10281	10137	9676	9420	9355	9315	9298
10.0	10125	10104	10120	10068	9975	9922	9885	9365	9204	9150
12.5	9435	9432	9446	9422	9412	9427	9453	9428	8882	8678
15.0	8530	8536	8550	8546	8600	8685	8767	8767	8540	8037
17.5	7880	7858	7850	7805	7786	7831	7942	7967	8032	7543
20.0	8403	8364	8316	7766	6921	6800	6967	7109	7394	7319
22.5	8037	7973	7897	7482	6942	6087	5865	6150	6824	7212
25.0	7799	7726	7630	7108	6401	5696	5081	5480	6521	7146
27.5	7756	7687	7559	6891	5978	5093	4683	5050	6169	7021
30.0	8020	7898	7658	6706	5536	4553	4203	4792	5740	6829
32.5	8384	8322	8163	7295	5397	4141	3989	4440	5275	6631
35.0	8288	8239	8127	7081	5311	4097	3921	4145	4877	6425
37.5	7731	7736	7752	6670	4963	4206	3881	3952	4728	6235
40.0	8251	8220	8205	6622	4666	4189	3994	3870	4501	6067
42.5	8797	8703	8459	6860	4970	4140	4136	3904	4603	5917
45.0	8959	8870	8566	6677	5200	4440	4151	4190	4598	5807
47.5	10153	9895	9573	7058	5272	4854	4404	4549	4743	6030
50.0	10853	10663	10314	8097	6257	5013	4866	4910	5199	6683
52.5	10983	10907	10682	8284	7215	5782	5398	5577	6292	7070
55.0	12166	11866	11517	9388	7833	6826	6155	6562	6822	7322
57.5	12796	12404	12038	9900	8927	7753	7470	7384	7529	8081
60.0	13189	12910	12677	11351	9843	8805	8602	8140	8152	8712
62.5	13730	13483	13352	12331	10638	9942	9362	8875	8625	9585
65.0	12021	11618	11250	11266	11028	11033	10397	9807	8631	9089
67.5	9666	9241	8866	9194	9499	11029	10992	9692	7980	7423
70.0	7377	7171	6788	7230	7895	9723	10445	8749	6494	5620
72.5	5436	5167	4927	5479	6284	8160	8480	6717	4656	3667
75.0	3679	3550	3365	3981	4811	6131	5862	4581	3057	2132
77.5	2503	2421	2281	2771	3371	3934	3364	2662	1611	992
80.0	1753	1719	1660	2063	2033	2144	1769	1323	732	428
82.5	1301	1285	1286	1608	1272	1202	948	660	340	183
85.0	978	968	995	1071	916	828	626	404	179	84
87.5	712	717	719	738	718	640	503	320	134	60
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	9395	9395	9395	9395	9395	9395	9395	9395	9395	9395
2.5	9420	9418	9420	9404	9416	9383	9360	9379	9382	9385
5.0	9359	9359	9354	9336	9340	9303	9283	9300	9299	9304
7.5	9282	9263	9254	9227	9232	9186	9152	9199	9228	9260
10.0	9100	9050	9038	9011	8992	8968	8974	8971	8595	8524
12.5	8527	8495	8509	8515	8533	8558	8213	8142	8269	8359
15.0	7929	7919	7948	8013	8115	7797	7667	7959	8120	8204
17.5	7447	7446	7439	7476	7601	7305	7517	7725	7940	8144
20.0	7234	7234	7186	7074	6909	6924	7184	7495	7833	8207
22.5	7160	7144	7068	6876	6452	6558	6846	7251	7757	7646
25.0	7026	7020	6961	6783	6335	6346	6545	6939	7006	7300
27.5	6924	6928	6867	6499	6299	6254	6336	6363	6805	7110

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CANDELA TABULATION - (Cont.)

30.0	6873	6897	6795	6320	6163	6284	5885	6168	6543	6947
32.5	6854	6897	6810	6271	6071	6080	5820	5902	6360	6933
35.0	6857	6932	6809	6210	6096	5785	5728	5743	5864	6148
37.5	6818	6732	6579	6103	6019	5589	5568	5482	5558	6051
40.0	6757	6569	6480	6031	6006	5497	5440	5266	5483	6077
42.5	6868	6721	6614	5989	5763	5388	5088	5200	5580	5761
45.0	7109	6993	6820	6022	5524	5326	4942	5315	5446	5897
47.5	7567	7382	7196	6164	5417	5058	4962	5182	5641	6162
50.0	7968	7755	7361	6411	5456	4752	5032	5316	6006	6296
52.5	8152	7780	7253	6655	5575	4735	4820	5589	6302	7031
55.0	8098	7739	7174	6300	5432	4880	4977	5796	6934	7125
57.5	8200	7865	7210	6226	5116	4663	5202	6419	6990	7368
60.0	8385	7977	7246	5959	4864	4711	5620	6370	7137	6992
62.5	8446	7687	7088	5880	4934	4778	5760	6454	5894	6112
65.0	7593	6913	6334	5518	4323	4643	5511	5487	5440	4682
67.5	6089	5787	5164	4143	3743	4156	4936	4952	4241	3481
70.0	4619	4335	3898	3204	2888	3799	4385	3845	2600	1451
72.5	3013	2865	2588	2271	2387	3094	3314	2151	595	37
75.0	1724	1638	1480	1368	1648	2410	1941	846	319	18
77.5	795	762	728	810	1138	1543	956	499	189	6
80.0	299	299	295	467	644	799	456	207	72	0
82.5	114	116	128	309	254	320	140	42	9	0
85.0	45	44	56	120	46	57	8	0	0	0
87.5	18	13	18	17	1	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

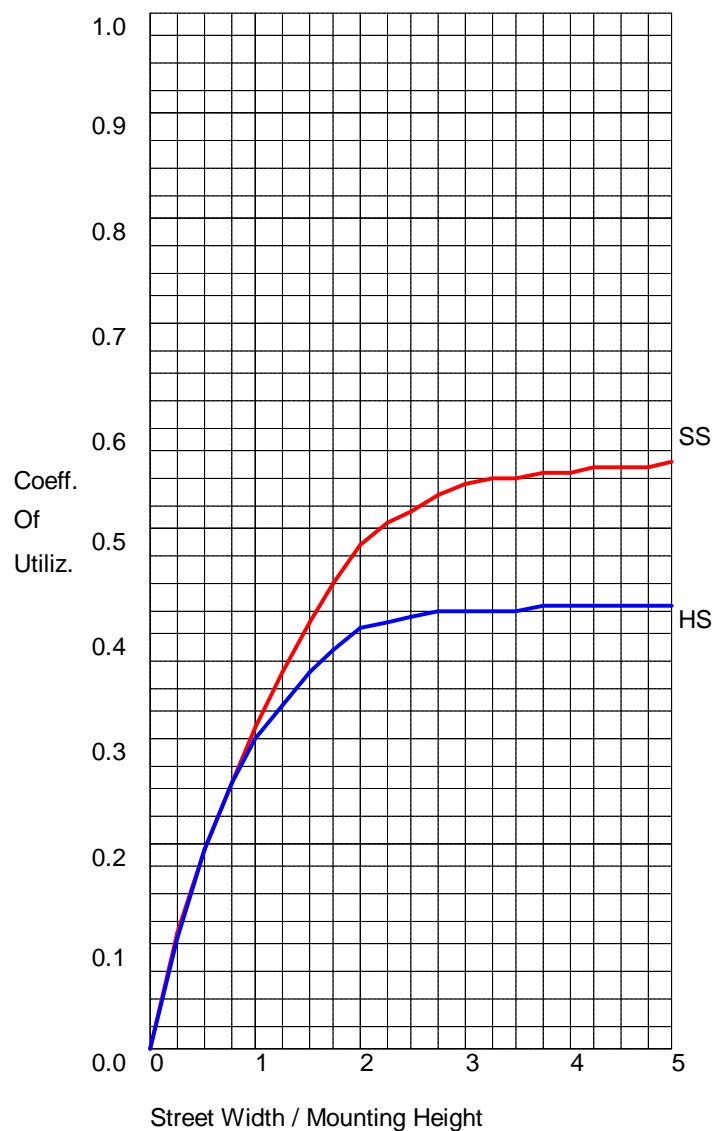
	<u>175.0</u>	<u>180.0</u>
0.0	9395	9395
2.5	9379	9435
5.0	9299	9355
7.5	9265	9326
10.0	8563	8627
12.5	8396	8452
15.0	8231	8283
17.5	8246	8290
20.0	8406	8451
22.5	7651	7718
25.0	7453	7520
27.5	7306	7392
30.0	7235	7346
32.5	6589	6622
35.0	6319	6383
37.5	6255	6265
40.0	6388	6404
42.5	5990	6026
45.0	6213	6246
47.5	6630	6702
50.0	6735	6776
52.5	7295	7387
55.0	7131	7129
57.5	7358	7367
60.0	6265	6200
62.5	5878	5867
65.0	4594	4583

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CANDELA TABULATION - (Cont.)

67.5	3323	3278
70.0	1110	1165
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

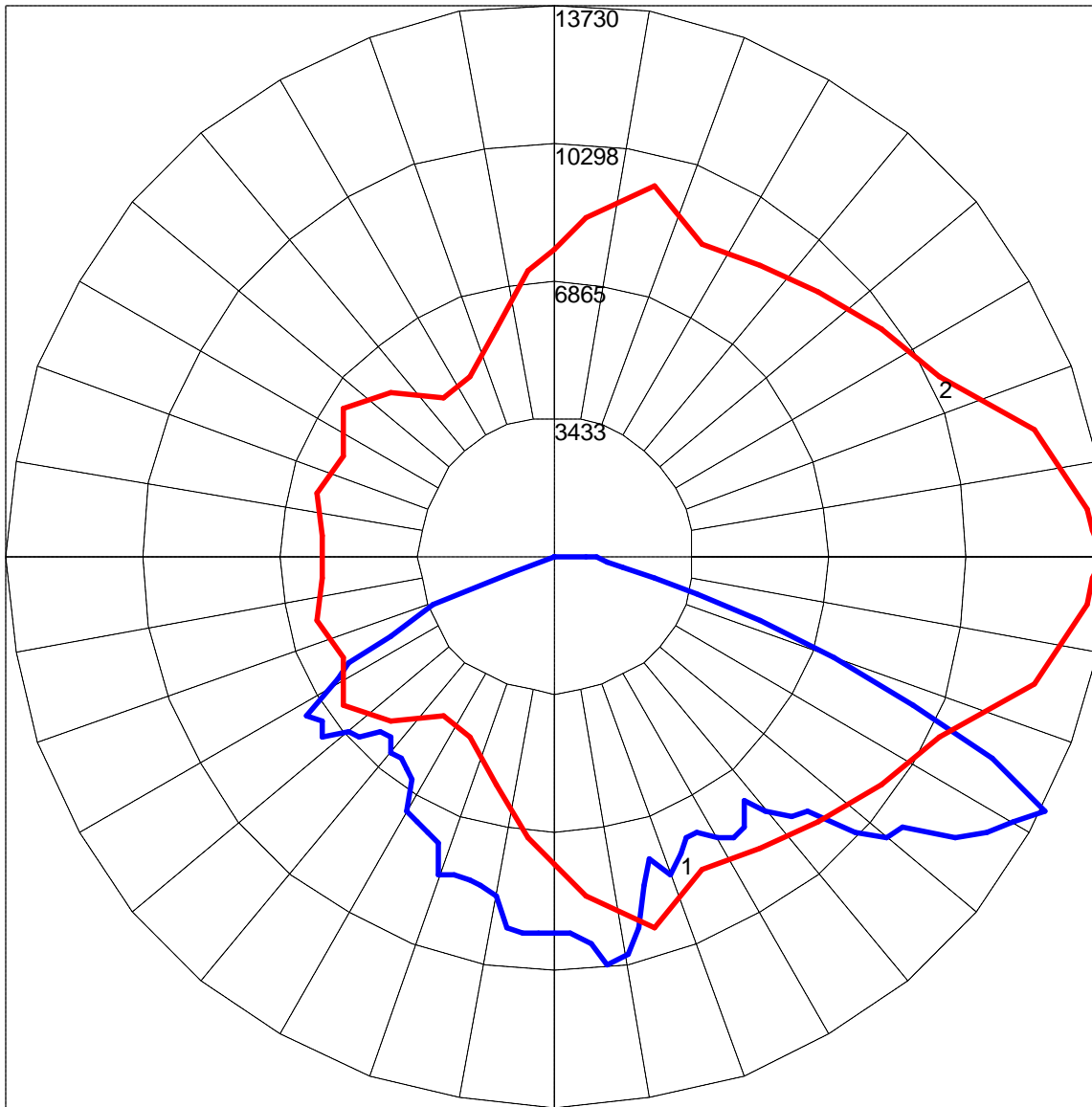
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

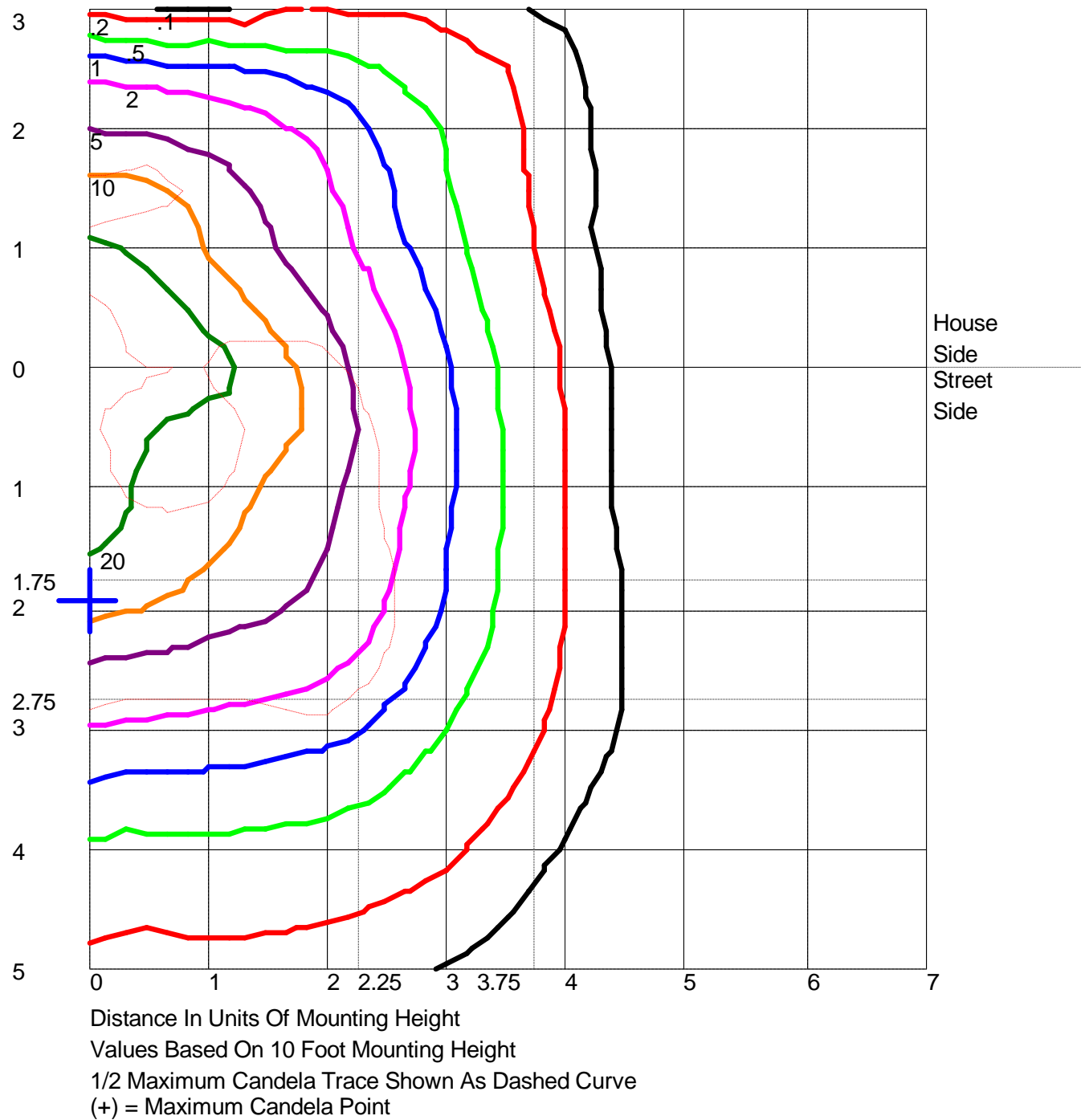
	Lumens	Percent Of Luminaire
Downward Street Side	17902.1	57.4
Downward House Side	13297.9	42.6
Downward Total	31200.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	31200.1	100.0

POLAR GRAPH

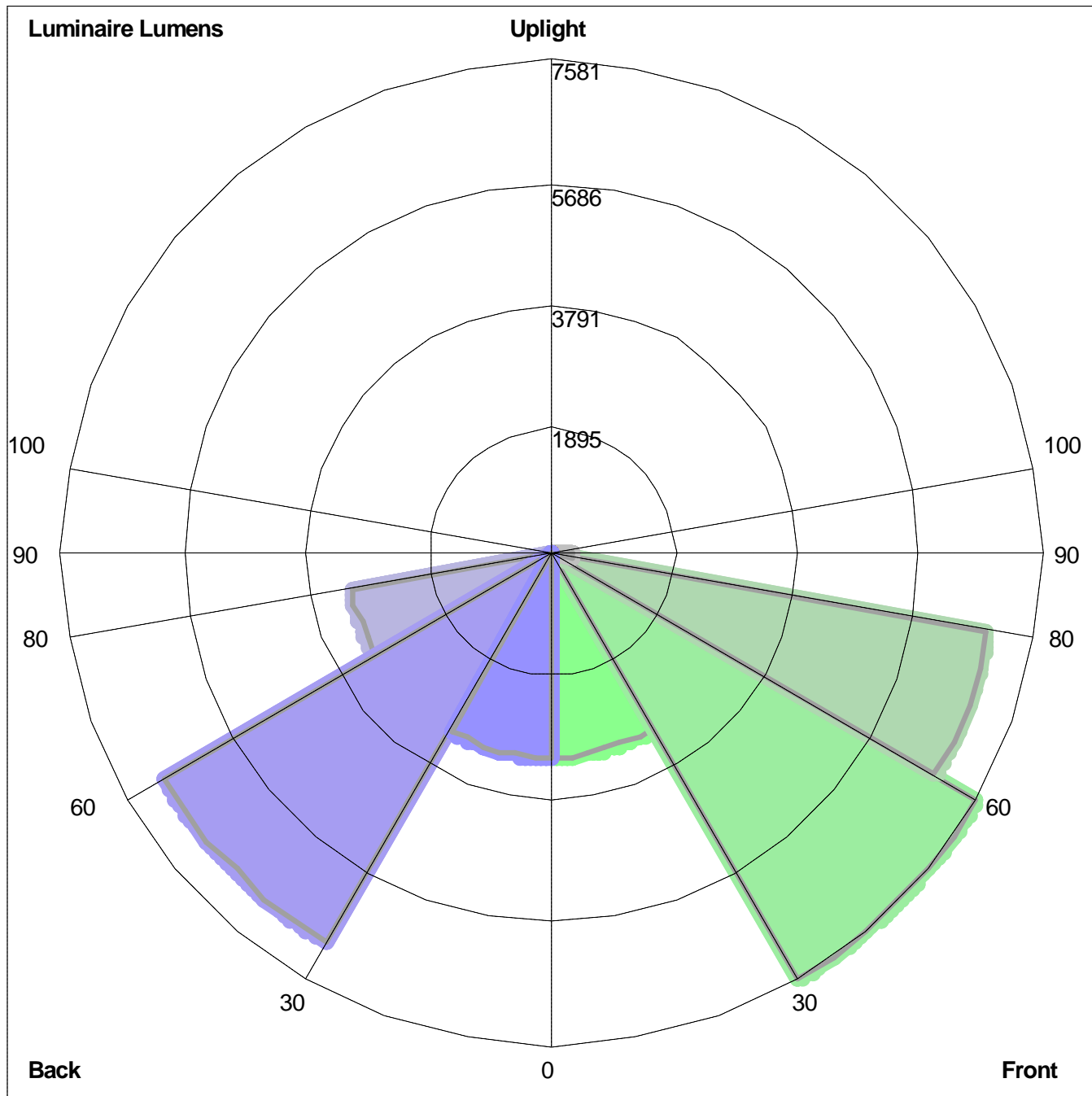


Maximum Candela = 13730 Located At Horizontal Angle = 0, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3140.9, Medium=7581.2, High=6834.7, Very High=345.3
Back: Low=3163.4, Medium=6934.9, High=3154.6, Very High=45.1
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4