

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7222
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/03/15
[TEST DATE]09/03/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-5-LR-LED-SS-NW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]29657
[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	29657
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	421.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12995
Maximum Candela Angle	0H 62.5V
Maximum Candela (<90 Degrees Vertical)	12995
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	2242 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3143.5	N.A.	10.6
FM - Front-Medium (30-60)	7445.2	N.A.	25.1
FH - Front-High (60-80)	6312.4	N.A.	21.3
FVH - Front-Very High (80-90)	354.8	N.A.	1.2
BL - Back-Low (0-30)	3088.9	N.A.	10.4
BM - Back-Medium (30-60)	6554.1	N.A.	22.1
BH - Back-High (60-80)	2715.3	N.A.	9.2
BVH - Back-Very High (80-90)	43.0	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	29657.2	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>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	9175	9175	9175	9175	9175	9175	9175	9175	9175	9175
2.5	9197	9195	9218	9211	9194	9206	9221	9204	9215	9221
5.0	9252	9251	9264	9245	9211	9211	9222	9213	9227	9235
7.5	9623	9614	9553	9425	9342	9318	9280	9198	9201	9228
10.0	9988	9987	10025	10022	9989	9918	9312	9115	9062	9069
12.5	9573	9572	9593	9617	9581	9559	9509	9044	8675	8605
15.0	8883	8882	8905	8969	8967	8976	8916	8807	8106	7959
17.5	8132	8137	8155	8164	8181	8104	8145	8125	7959	7459
20.0	7712	7689	7681	7408	7293	7189	7195	7336	7486	7149
22.5	7623	7610	7607	7444	7023	6165	6231	6566	7094	7029
25.0	7341	7310	7292	6964	6260	5787	5328	5945	6848	6997
27.5	7275	7225	7200	6669	5768	4980	4921	5465	6534	7054
30.0	7276	7228	7194	6474	5349	4501	4340	4913	6134	6977
32.5	7920	7872	7843	6981	4997	4083	3977	4692	5733	6884
35.0	7711	7669	7655	6782	5111	3893	3861	4327	5348	6819
37.5	7424	7390	7442	6451	4799	4144	3818	4028	5015	6742
40.0	7855	7810	7708	6069	4536	4113	3938	3978	4974	6693
42.5	8130	8108	8101	6471	4619	4054	4175	4089	5025	6621
45.0	8308	8271	8180	6305	5019	4077	4243	4274	4969	6654
47.5	9066	8967	8805	6202	4995	4731	4386	4805	5157	6852
50.0	10027	9922	9705	7433	5634	4826	5088	5152	5598	7091
52.5	10166	10037	9893	7674	6768	5411	5528	5627	6149	7167
55.0	11341	11224	11069	8820	7283	6699	5952	6341	6963	7517
57.5	11752	11616	11466	9475	8633	7363	7064	7167	7187	7638
60.0	12341	12211	12169	10878	9099	8812	8119	7370	7253	7862
62.5	12995	12811	12621	11147	9969	9459	8775	7888	7360	7912
65.0	11532	11331	11188	11133	10865	10121	9167	8278	7313	7222
67.5	9431	9195	8877	9219	9624	10442	9654	8270	6595	6640
70.0	7326	7146	6806	7159	7891	8906	9620	7450	5658	4885
72.5	5443	5259	4881	5305	6013	7324	7855	6253	4222	3314
75.0	3734	3555	3333	3825	4376	5535	5612	4604	2870	2052
77.5	2417	2337	2235	2624	3076	3726	3518	2687	1657	1119
80.0	1711	1648	1599	1917	2045	2242	1967	1457	829	541
82.5	1250	1219	1225	1521	1316	1358	1057	774	370	225
85.0	979	963	963	1099	935	874	639	408	174	91
87.5	726	729	731	739	704	625	478	296	123	54
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	9175	9175	9175	9175	9175	9175	9175	9175	9175	9175
2.5	9217	9204	9201	9194	9190	9172	9150	9169	9172	9159
5.0	9225	9206	9201	9192	9181	9152	9120	9124	9130	9120
7.5	9222	9198	9182	9152	9116	9092	9079	9082	9051	8918
10.0	9058	9023	8988	8926	8865	8853	8660	8284	8323	8330
12.5	8571	8531	8494	8409	8385	7988	7911	8121	8219	8238
15.0	7923	7897	7857	7881	7877	7504	7610	7919	8066	8134
17.5	7419	7402	7383	7342	7100	7270	7404	7607	7936	8142
20.0	7201	7193	7115	6952	6608	6813	7090	7419	7871	8124
22.5	7089	7069	6969	6716	6347	6438	6683	7153	7123	7334
25.0	6964	6959	6865	6437	6269	6222	6422	6459	6866	7117
27.5	6891	6912	6790	6208	6216	6156	5874	6214	6583	6920

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CANDELA TABULATION - (Cont.)

30.0	6883	6907	6742	6081	6119	6151	5703	5897	6378	6851
32.5	6909	6935	6769	6119	5984	5786	5612	5649	6189	6153
35.0	6933	6965	6814	6334	6016	5520	5486	5536	5562	5992
37.5	6842	6849	6696	6166	6045	5421	5382	5117	5373	5824
40.0	6785	6748	6690	6127	5787	5347	5076	5037	5154	5664
42.5	7014	7049	6932	6207	5536	5283	4802	4950	4906	5242
45.0	7431	7448	7250	6370	5504	5154	4726	4870	4895	5361
47.5	7860	7885	7650	6578	5519	4730	4682	4738	5041	5424
50.0	8050	8027	7634	6906	5587	4657	4401	4795	5040	5623
52.5	8081	7844	7285	6741	5727	4686	4336	4729	5624	6180
55.0	8033	7587	6994	6269	5329	4566	4514	5134	5975	6313
57.5	8116	7470	6649	5793	4901	4248	4534	5514	6185	6593
60.0	8012	7141	6259	5620	4816	4347	4973	5615	6105	5876
62.5	7511	6567	5822	5273	4492	4109	4811	5574	5680	5460
65.0	6413	5615	4971	4652	3793	4316	4889	5194	4576	4319
67.5	5103	4602	4088	3625	3392	3715	4549	4360	3342	2530
70.0	3751	3345	3077	2761	2705	3397	3915	3107	1671	408
72.5	2445	2289	2148	1964	2199	3008	2795	1547	430	0
75.0	1465	1417	1330	1326	1770	2334	1512	822	309	0
77.5	747	760	732	794	1219	1493	853	477	187	0
80.0	370	379	377	490	597	787	405	187	73	0
82.5	125	155	162	342	199	267	104	32	8	0
85.0	39	51	60	130	28	36	4	0	0	0
87.5	15	11	10	8	4	1	1	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

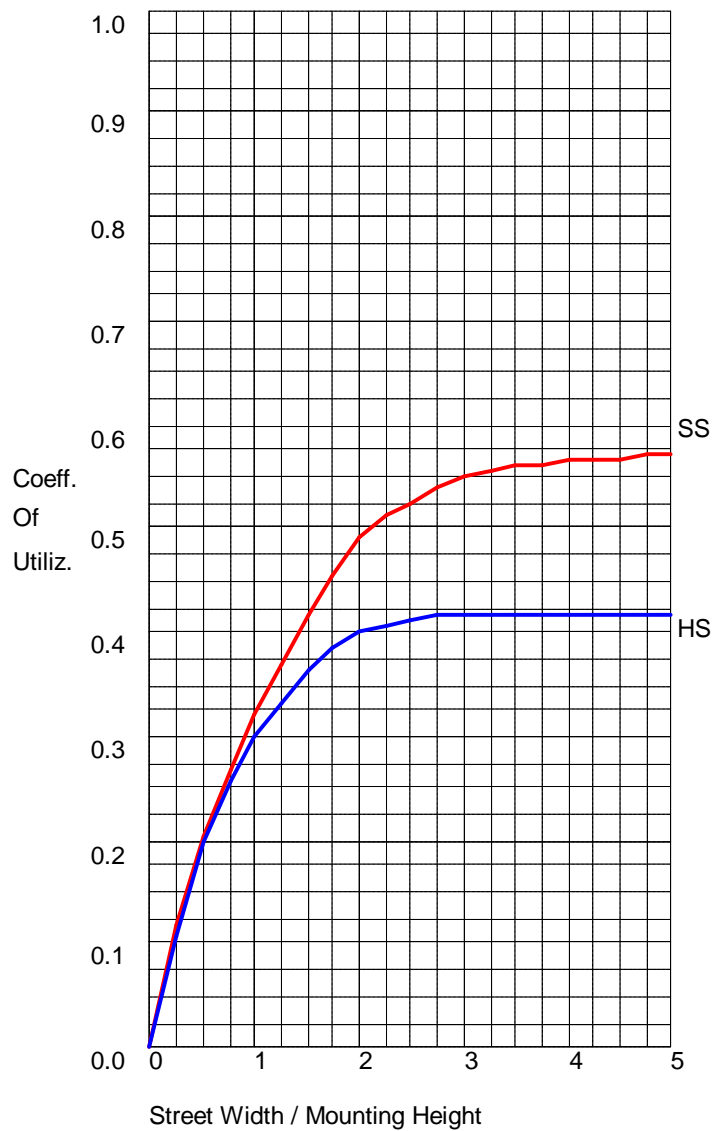
	<u>175.0</u>	<u>180.0</u>
0.0	9175	9175
2.5	9138	9224
5.0	9086	9166
7.5	8786	8774
10.0	8312	8381
12.5	8195	8260
15.0	8114	8174
17.5	8158	8209
20.0	7835	7815
22.5	7355	7390
25.0	7194	7250
27.5	7087	7154
30.0	7013	7068
32.5	6187	6263
35.0	6012	6053
37.5	5922	5929
40.0	5406	5368
42.5	5489	5446
45.0	5693	5637
47.5	5447	5456
50.0	6016	6051
52.5	6218	6152
55.0	6362	6385
57.5	6361	6421
60.0	5967	6021
62.5	4830	4846
65.0	3767	3732

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CANDELA TABULATION - (Cont.)

67.5	1868	1798
70.0	8	5
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

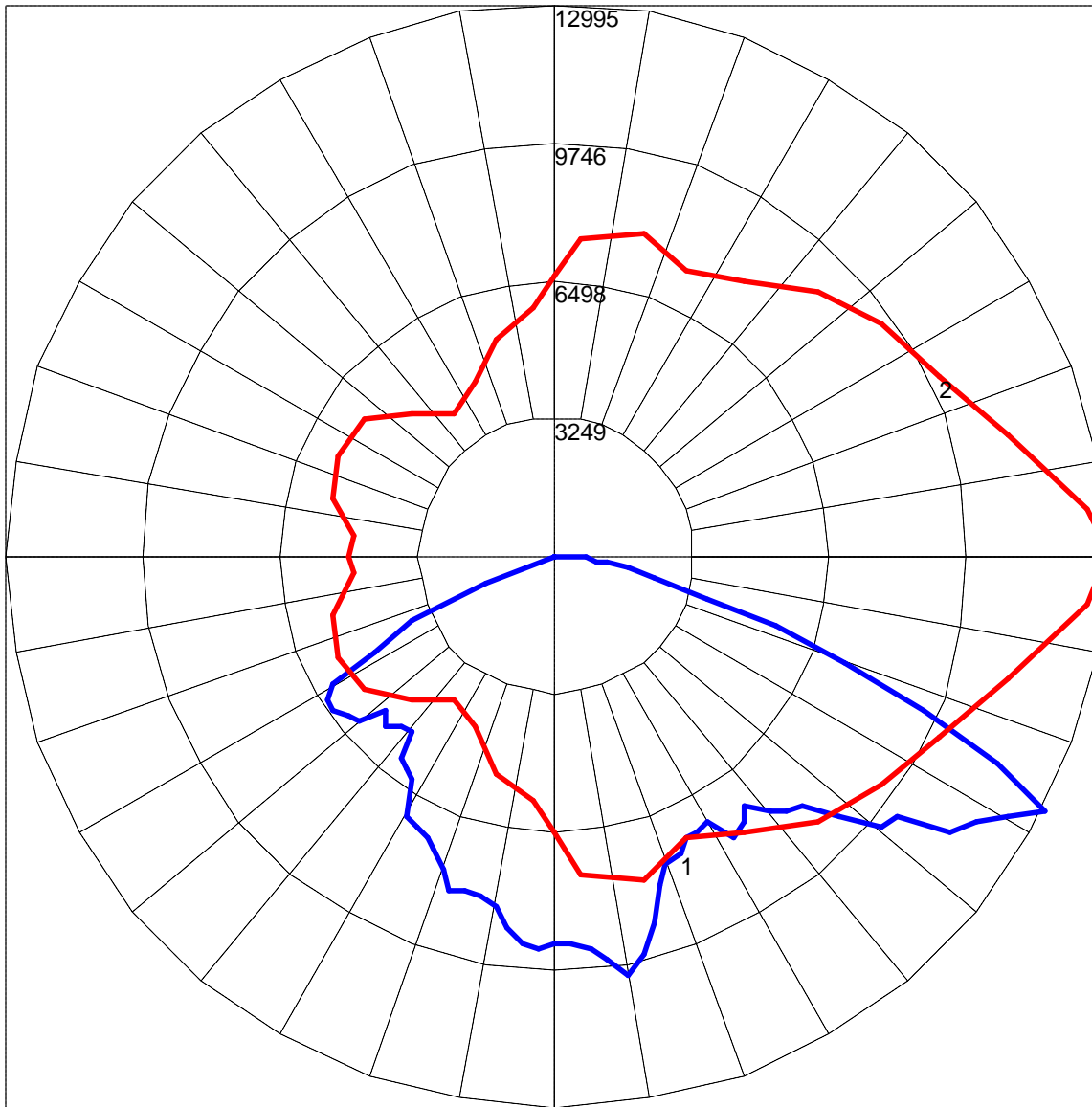
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

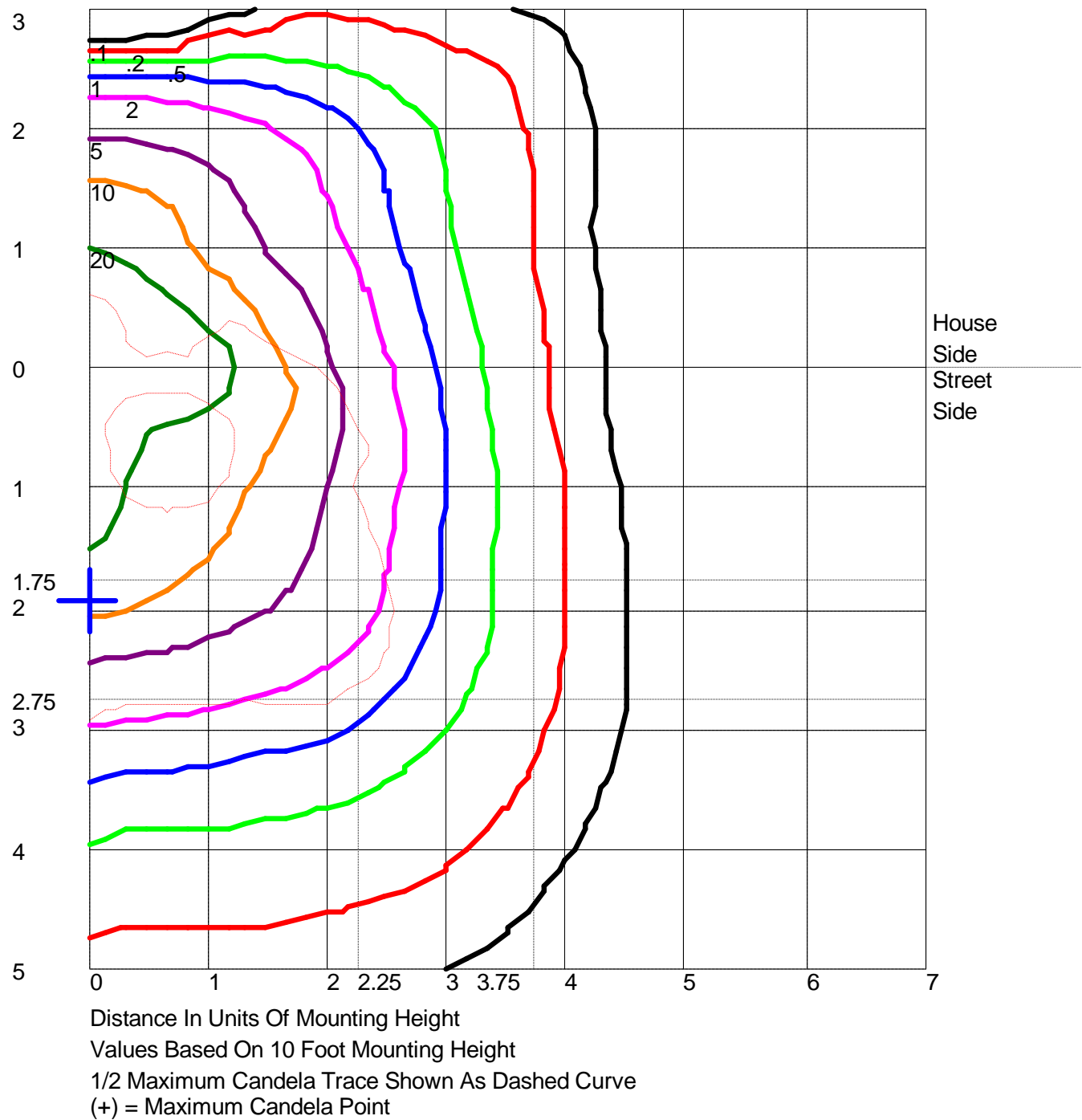
	Lumens	Percent Of Luminaire
Downward Street Side	17255.9	58.2
Downward House Side	12401.3	41.8
Downward Total	29657.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29657.2	100.0

POLAR GRAPH

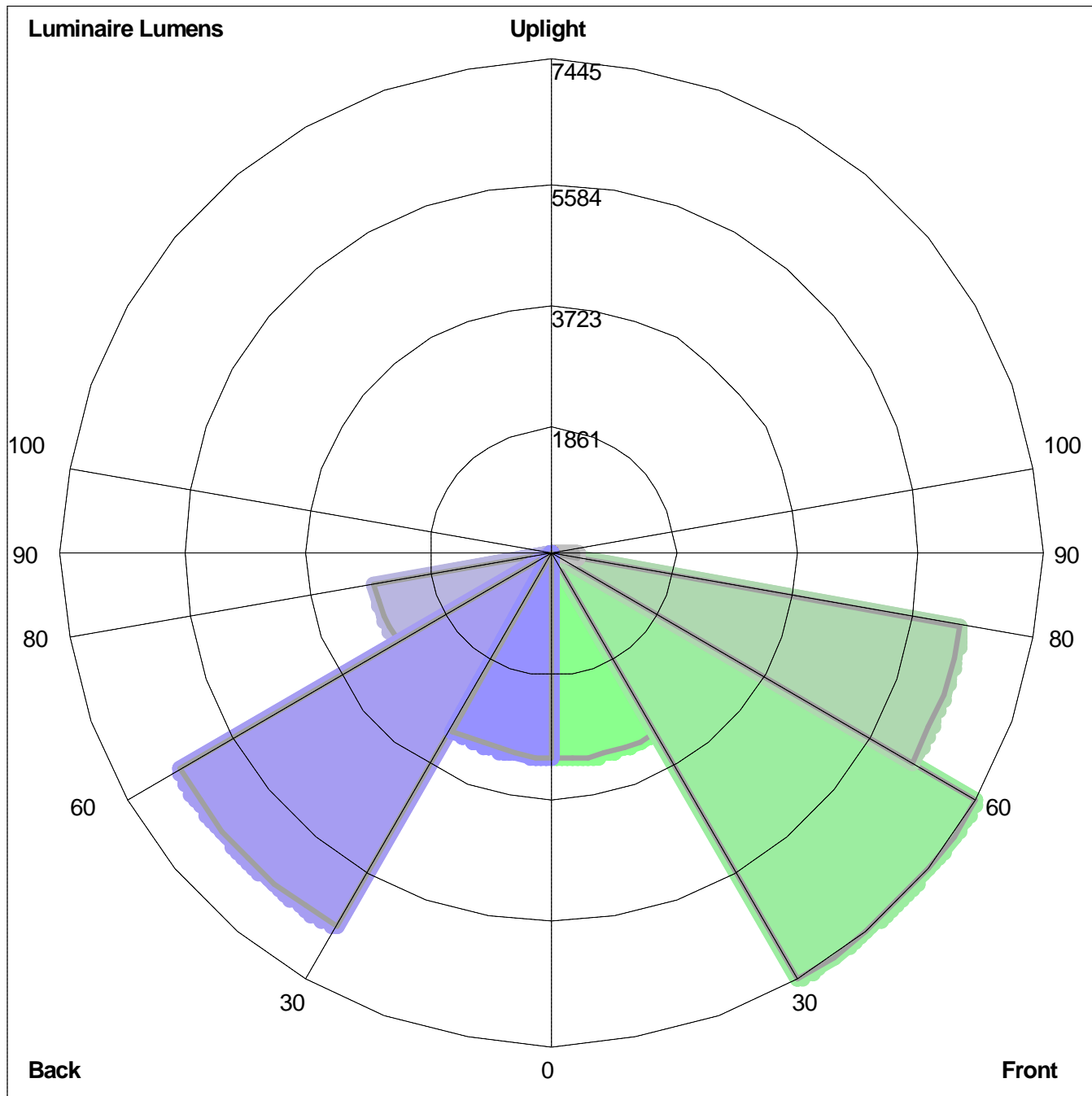


Maximum Candela = 12995 Located At Horizontal Angle = 0, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3143.5, Medium=7445.2, High=6312.4, Very High=354.8
Back: Low=3088.9, Medium=6554.1, High=2715.3, Very High=43.0
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4