



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7591
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]04/29/2016
[TEST DATE]04/29/2016
[MANUFACT]LSI INDUSTRIES, INC
[LUMCAT]XLCL-FTA-LED-HO-CW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SACO FLAT BLACK SHIELD
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	55330
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	532.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	49741
Maximum Candela Angle	10H 32.5V
Maximum Candela (<90 Degrees Vertical)	49741
Maximum Candela Angle (<90 Degrees Vertical)	10H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1120 (2.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	9381.7	N.A.	17.0
FM - Front-Medium (30-60)	32959.8	N.A.	59.6
FH - Front-High (60-80)	5714.0	N.A.	10.3
FVH - Front-Very High (80-90)	180.2	N.A.	0.3
BL - Back-Low (0-30)	3169.3	N.A.	5.7
BM - Back-Medium (30-60)	3098.5	N.A.	5.6
BH - Back-High (60-80)	803.8	N.A.	1.5
BVH - Back-Very High (80-90)	22.6	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	55329.9	N.A.	100.0
BUG Rating	B4-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	10	15	25	35	45	55	65	75
0.0	14370	14370	14370	14370	14370	14370	14370	14370	14370	14370
2.5	14585	14631	14604	14603	14570	14570	14515	14528	14482	14453
5.0	15738	16043	16029	15684	15675	15219	15083	15027	14895	14680
7.5	16589	16916	16851	16610	16756	16650	16517	16180	15426	15264
10.0	17388	17731	17661	17475	17642	17620	17461	17485	16962	15913
12.5	18609	18997	18934	18778	18976	18758	18444	18279	17824	16415
15.0	20865	21292	21218	21144	20866	19870	19282	18852	18090	17130
17.5	22716	23192	23096	23006	22880	21656	19852	19193	18365	17617
20.0	25795	25912	25749	25517	24533	22863	21336	19444	18527	17720
22.5	29669	29702	29265	28722	27116	24718	22465	20159	18690	17773
25.0	34772	34886	34649	33503	31110	27339	23834	21078	18776	17686
27.5	40308	40640	40070	38747	35808	31403	25781	21842	18893	17631
30.0	45928	46345	45754	44397	40939	35945	28556	23110	19811	17649
32.5	49191	49699	49741	48823	46031	40630	32164	24803	20201	17586
35.0	48525	49245	49330	49432	49032	44920	36152	27161	20671	17568
37.5	46162	46864	46912	47271	48568	47662	40919	30117	21370	17371
40.0	44083	44599	44685	44776	46119	47166	44281	33234	22306	17205
42.5	40759	41314	41549	41948	43784	44720	45425	36774	23549	17488
45.0	35840	36194	36847	37621	40480	42415	43887	39732	25544	17672
47.5	28846	29745	30639	31617	35630	39430	41355	41270	27803	17630
50.0	23006	23748	24473	25291	29348	34821	38675	40286	29933	17546
52.5	18697	19378	19594	20228	23016	28434	34860	37336	31803	17303
55.0	15831	16309	16563	16763	18415	22203	29409	33923	32510	17104
57.5	13042	13438	13640	14191	15215	17396	23193	30070	31448	17346
60.0	6563	6800	7339	9334	12302	14087	17003	24967	28787	17771
62.5	2135	2104	2160	2815	6024	11140	13262	19100	25322	17880
65.0	1315	1331	1357	1475	1897	4950	10519	13631	21172	16625
67.5	1072	1110	1097	1090	1142	1562	5383	9775	15282	14876
70.0	1145	1173	1196	1183	1103	1037	1486	6207	10013	12513
72.5	869	898	916	957	1104	1111	1000	2011	5869	9551
75.0	952	950	936	873	814	922	1065	912	3229	6235
77.5	830	861	869	901	947	892	808	931	926	3077
80.0	601	602	590	597	628	767	933	681	620	1120
82.5	465	472	468	474	503	557	583	758	473	336
85.0	252	247	260	265	310	353	386	429	394	150
87.5	124	122	129	130	141	155	167	174	159	81
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	14370	14370	14370	14370	14370	14370	14370	14370	14370	14370
2.5	14439	14407	14376	14319	14284	14267	14216	14246	14215	14223
5.0	14577	14517	14638	14363	14272	14207	14120	14132	14096	14095
7.5	15014	14877	14848	14506	14360	14237	14125	14038	13657	13443
10.0	15515	15164	15005	14494	14297	14095	13350	13112	12744	12213
12.5	15502	15173	14951	14320	14135	13276	12644	11456	10128	8951
15.0	15525	15087	14567	14176	13490	12618	10517	8443	6561	5057
17.5	15823	15073	14495	14095	13081	11011	7753	4913	2665	1589
20.0	15809	14962	14365	13970	12407	8787	4817	1846	905	766
22.5	15745	14852	14230	13575	11129	6301	2023	871	764	715
25.0	15473	14591	14090	13099	9386	3739	899	755	691	648
27.5	15419	14494	13948	12644	7397	1492	693	642	605	590
30.0	15559	14363	13811	11951	5311	762	596	566	581	669
32.5	15650	14231	13646	11005	3187	620	515	554	679	904
35.0	15454	13981	13425	9860	1582	564	493	660	968	1199
37.5	15064	13627	13174	8510	1023	510	598	926	1212	1225
40.0	14416	13204	12871	7018	903	486	765	1181	1282	1284
42.5	14218	12890	12575	5360	872	563	1079	1217	1368	1420
45.0	14143	12684	12244	3824	831	676	1268	1318	1482	1598
47.5	14208	12485	11714	2490	743	977	1351	1488	1600	1685
50.0	14007	11993	10868	1603	672	1278	1501	1676	1706	1633
52.5	13363	11159	9910	1116	715	1401	1716	1799	1611	1443
55.0	12602	10475	8999	800	925	1549	1837	1734	1347	1109
57.5	11855	9749	8016	577	1207	1747	1880	1483	996	768
60.0	10562	8682	6860	451	1361	1897	1692	1102	678	528
62.5	9384	7806	5588	439	1540	1981	1331	752	474	332
65.0	8400	6753	3985	522	1773	1763	902	540	266	149
67.5	7251	5736	2768	691	1973	1302	651	281	130	76
70.0	5619	4222	1680	868	1857	941	387	146	73	31
72.5	4465	3331	957	1028	1349	613	186	99	33	0
75.0	3018	1927	463	1094	924	275	120	48	18	0
77.5	1885	1087	231	876	437	153	77	30	13	0

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CANDELA TABULATION - (Cont.)

80.0	1024	521	160	478	158	87	43	23	12	1
82.5	543	242	142	172	83	46	31	23	14	3
85.0	195	96	76	57	39	33	28	23	15	5
87.5	47	35	30	27	25	21	18	14	10	4
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

	<u>175</u>	<u>180</u>
0.0	14370	14370
2.5	14197	14318
5.0	14061	14196
7.5	13279	13404
10.0	11886	11952
12.5	8384	8373
15.0	4372	4306
17.5	1245	1197
20.0	706	697
22.5	648	656
25.0	608	637

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CANDELA TABULATION - (Cont.)

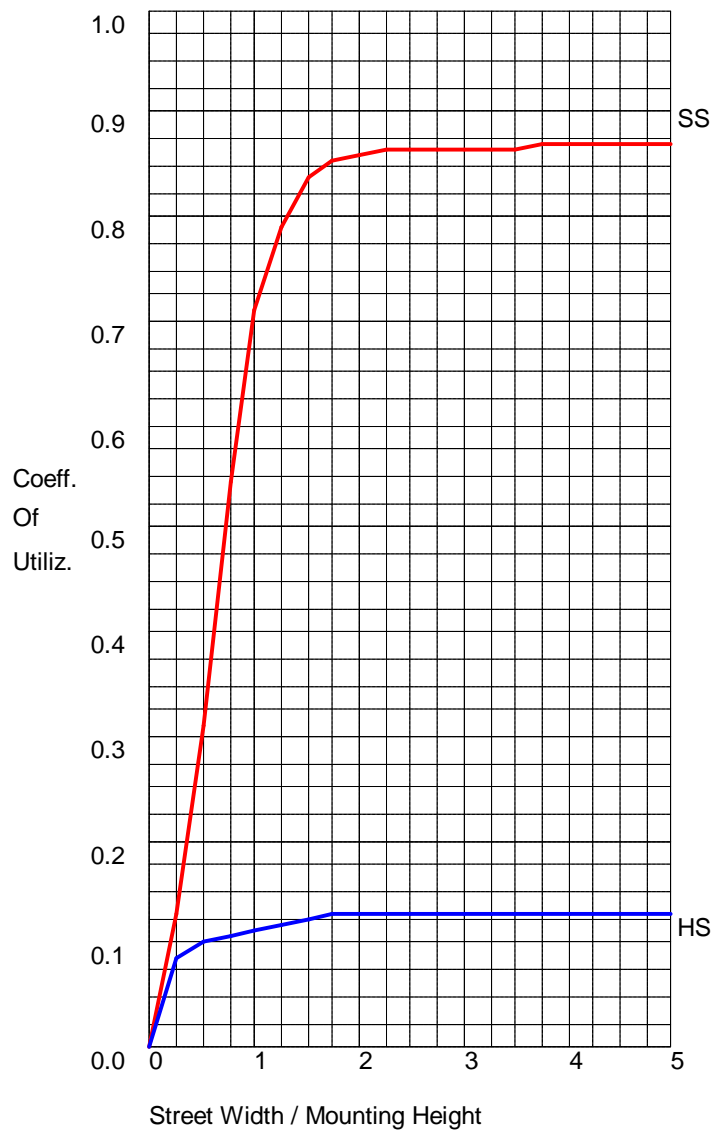
27.5	647	680
30.0	737	776
32.5	996	1013
35.0	1207	1216
37.5	1222	1227
40.0	1305	1313
42.5	1479	1479
45.0	1602	1595
47.5	1700	1695
50.0	1588	1584
52.5	1323	1312
55.0	989	974
57.5	663	632
60.0	442	432
62.5	259	242
65.0	112	108
67.5	48	46
70.0	12	7
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	0	0

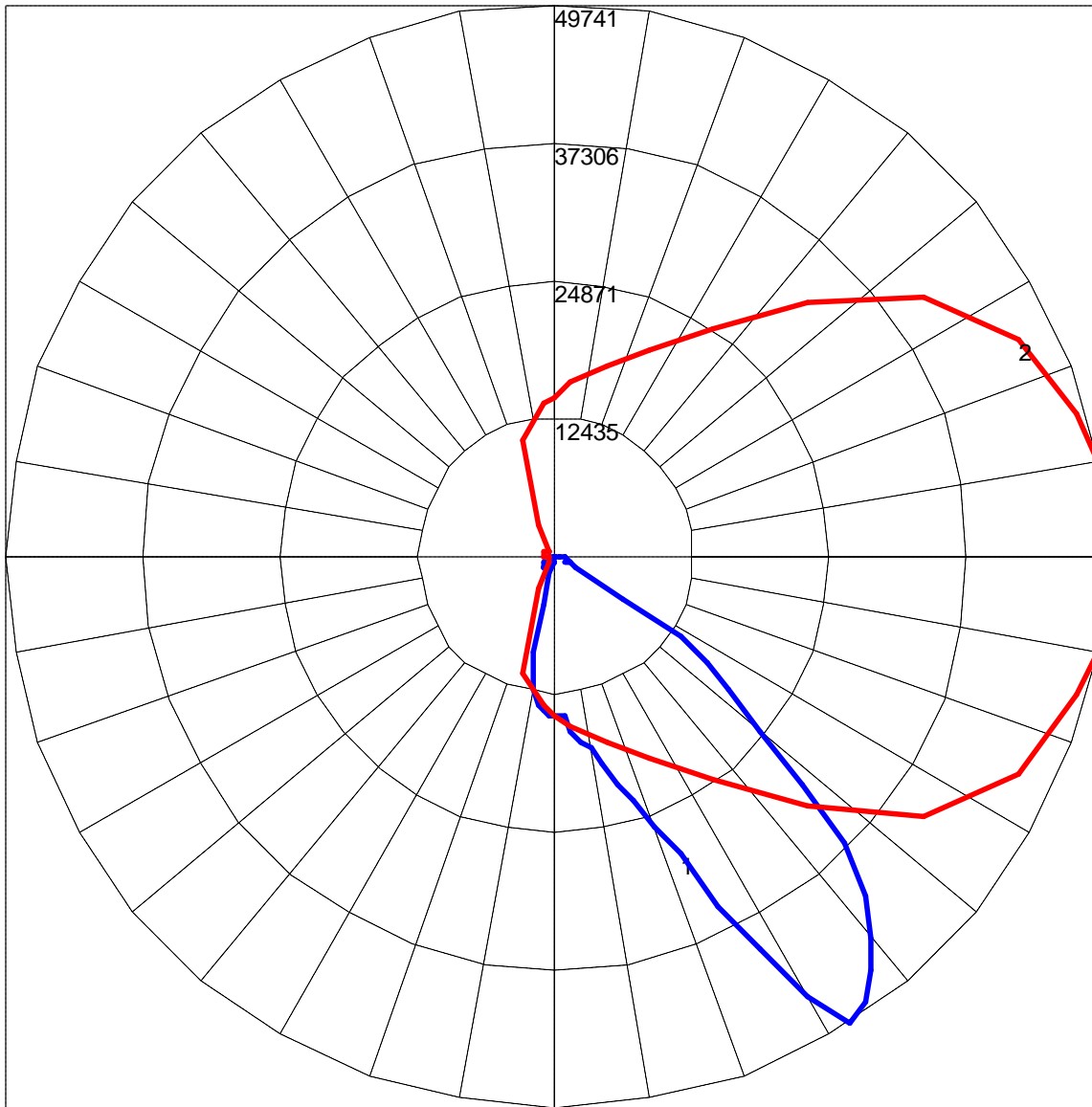
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

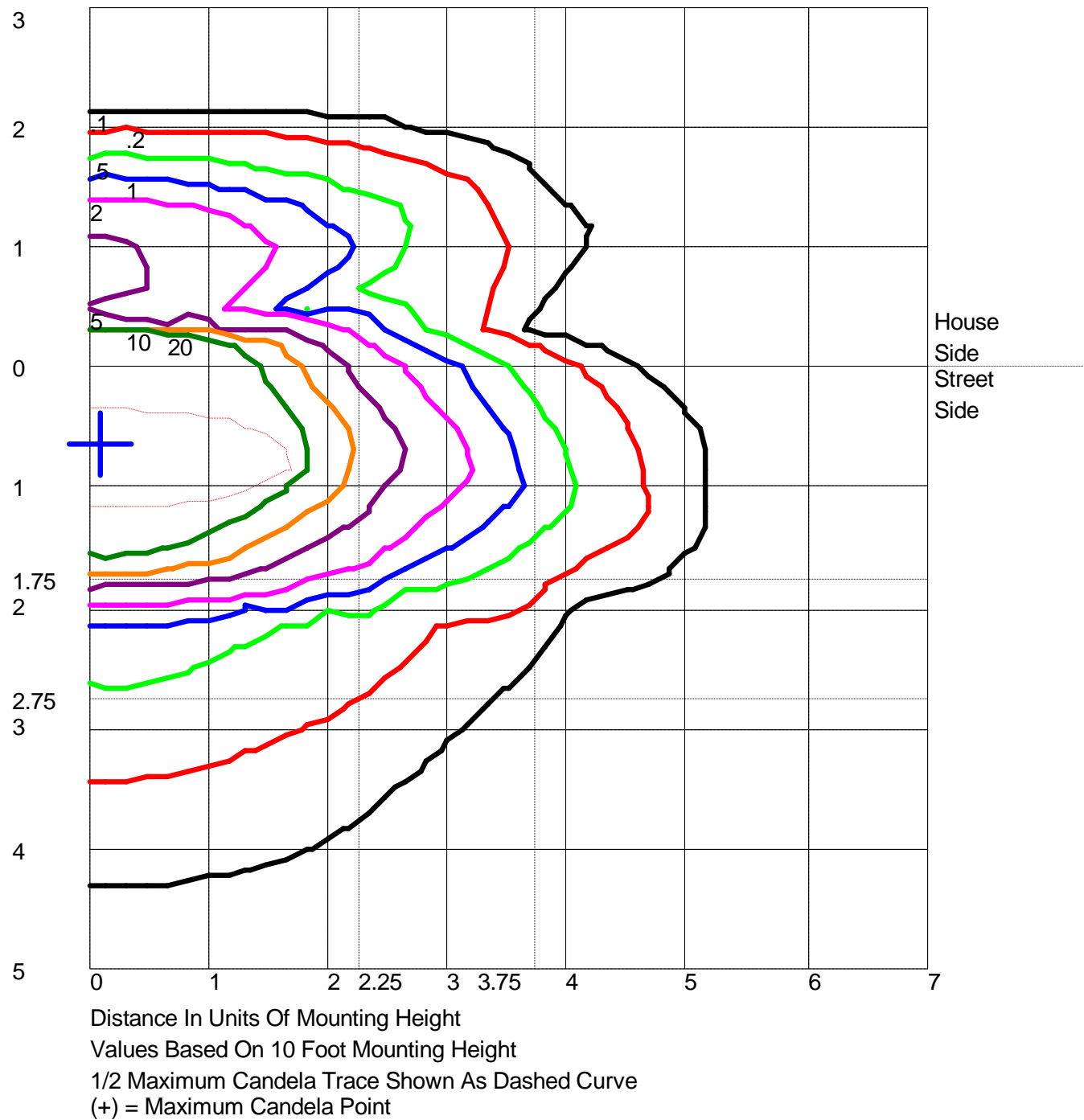
	Lumens	Percent Of Luminaire
Downward Street Side	48235.7	87.2
Downward House Side	7094.2	12.8
Downward Total	55329.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	55329.9	100.0

POLAR GRAPH

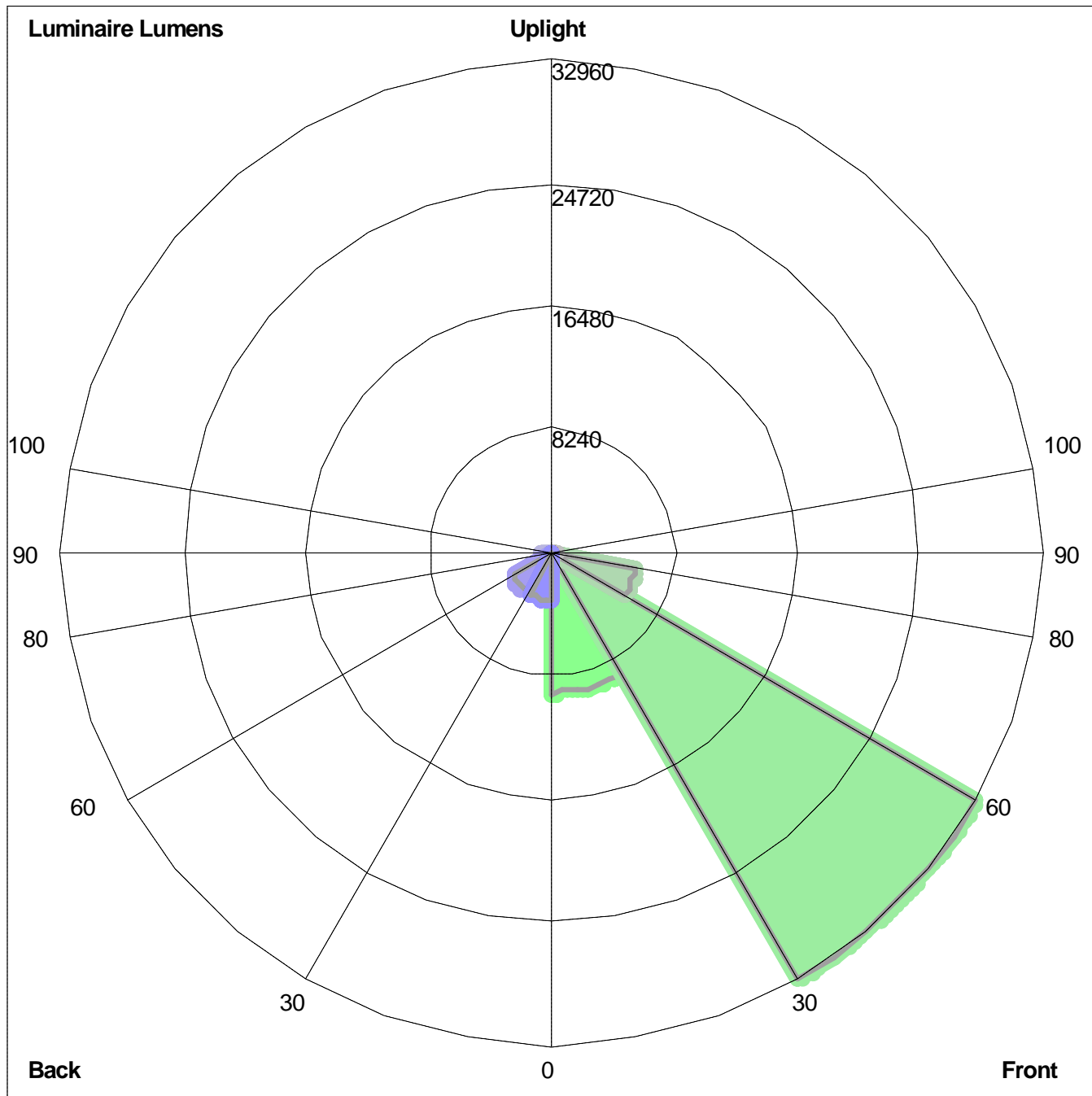


Maximum Candela = 49741 Located At Horizontal Angle = 10, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=9381.7, Medium=32959.8, High= 5714.0, Very High=180.2
Back: Low=3169.3, Medium=3098.5, High=803.8, Very High=22.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3