



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XLCL-FT-LED-HO-CW.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-12324  
[TESTLAB]LSI INDUSTRIES, INC.  
[ISSUE DATE]11/18/20  
[TEST DATE]11/17/20  
[MANUFACTURER]LSI INDUSTRIES, INC.  
[LUMEN CATEGORY]XLCL-FT-LED-HO-CW  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[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	60145
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	547.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	47800
Maximum Candela Angle	5H 57.5V
Maximum Candela (<90 Degrees Vertical)	47800
Maximum Candela Angle (<90 Degrees Vertical)	5H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2489 (4.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	7745.7	N.A.	12.9
FM - Front-Medium (30-60)	25022.0	N.A.	41.6
FH - Front-High (60-80)	15313.2	N.A.	25.5
FVH - Front-Very High (80-90)	149.0	N.A.	0.2
BL - Back-Low (0-30)	5160.3	N.A.	8.6
BM - Back-Medium (30-60)	4925.9	N.A.	8.2
BH - Back-High (60-80)	1708.6	N.A.	2.8
BVH - Back-Very High (80-90)	120.6	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	60145.3	N.A.	100.0
BUG Rating	B5-U0-G5		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>2.5</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	20081	20081	20081	20081	20081	20081	20081	20081	20081	20081
<b>2.5</b>	20224	20210	20234	20263	20160	20147	20148	20085	20072	20032
<b>5.0</b>	19543	19576	19605	19680	19605	19793	19850	19929	20070	20119
<b>7.5</b>	18737	18719	18752	18872	18867	19126	19375	19690	20021	20277
<b>10.0</b>	18213	18229	18257	18323	18331	18535	18863	19256	19836	20233
<b>12.5</b>	17905	17907	17931	18013	18002	18222	18399	18749	19288	19701
<b>15.0</b>	17703	17677	17718	17790	17787	17985	18197	18411	18648	18921
<b>17.5</b>	17579	17497	17549	17618	17585	17825	18060	18347	18332	18579
<b>20.0</b>	17474	17451	17485	17553	17493	17695	18013	18120	18320	18994
<b>22.5</b>	17456	17506	17477	17575	17494	17618	17765	17867	18320	19569
<b>25.0</b>	17488	17546	17556	17596	17492	17566	17555	17631	18215	19375
<b>27.5</b>	17540	17608	17621	17648	17520	17580	17420	17374	17847	18692
<b>30.0</b>	17607	17666	17682	17709	17601	17556	17278	17194	17433	17985
<b>32.5</b>	17703	17762	17801	17776	17600	17490	17158	17039	17154	17703
<b>35.0</b>	17873	17921	17960	17904	17720	17487	17052	16899	16936	17873
<b>37.5</b>	18155	18255	18281	18182	17874	17506	16997	16750	16857	17507
<b>40.0</b>	19119	19122	19117	18721	18148	17476	16925	16517	16443	16713
<b>42.5</b>	21494	21605	21398	20597	19063	17841	16961	16370	15996	16071
<b>45.0</b>	25233	25385	25048	23790	21169	18622	17020	16143	15506	15487
<b>47.5</b>	31207	31354	31248	28770	24646	20392	17223	15830	14784	14666
<b>50.0</b>	37416	37508	37448	35204	30152	23095	17628	15430	14385	14244
<b>52.5</b>	42079	42115	42314	40636	36774	28007	19252	15047	13960	13484
<b>55.0</b>	45368	45545	45556	43987	41458	33753	22461	15220	13458	12562
<b>57.5</b>	47771	47713	47800	46586	44127	37736	27529	16332	12864	11638
<b>60.0</b>	46794	46875	47026	46920	45316	39737	32119	18424	12286	10758
<b>62.5</b>	42421	42602	42881	44161	43501	40346	33953	22053	11990	9818
<b>65.0</b>	32871	32739	33758	36220	38028	38552	34047	25062	11943	8532
<b>67.5</b>	19143	19011	20057	23278	27895	32876	32219	25122	12470	7246
<b>70.0</b>	8459	8380	8892	10806	15240	22320	26353	22801	12819	6187
<b>72.5</b>	3173	3132	3339	4181	6332	11055	17175	18666	12271	5252
<b>75.0</b>	1092	1078	1075	1379	2272	4241	8069	12334	9544	4208
<b>77.5</b>	461	470	463	498	787	1349	2853	5696	5534	3331
<b>80.0</b>	245	247	241	243	314	393	826	1787	2428	2489
<b>82.5</b>	125	127	123	120	111	135	198	415	699	1406
<b>85.0</b>	40	42	40	42	28	45	55	55	109	475
<b>87.5</b>	1	1	2	5	8	11	13	14	14	29
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	20081	20081	20081	20081	20081	20081	20081	20081	20081	20081
<b>2.5</b>	19987	20027	20048	19945	19998	19954	20091	20138	20057	20127
<b>5.0</b>	20131	20163	20173	20042	19987	19821	19796	19722	19608	19621
<b>7.5</b>	20428	20450	20474	20239	20020	19626	19392	19110	18805	18713
<b>10.0</b>	20424	20529	20546	20279	19856	19231	18764	18192	17437	17177
<b>12.5</b>	19969	20092	20185	19960	19382	18533	17533	16374	15316	14546
<b>15.0</b>	19279	19485	19651	19402	18691	17264	15838	14074	12790	11761
<b>17.5</b>	19281	19587	19718	19238	17815	15649	13609	11446	9692	8521
<b>20.0</b>	20150	20501	20457	19303	17040	13892	11276	8637	6593	5354
<b>22.5</b>	21385	21814	21553	19423	16142	12168	8618	5854	3910	2868
<b>25.0</b>	21346	21836	21488	19067	14851	10252	6252	3566	2144	1594
<b>27.5</b>	20521	21070	20851	18150	13429	8225	4095	2058	1365	1257

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**CANDELA TABULATION - (Cont.)**

30.0	19844	20580	20424	17225	11841	6108	2464	1379	1234	1249
32.5	19608	20415	20132	16123	10017	4143	1501	1243	1277	1322
35.0	19457	20238	19733	15004	8132	2619	1149	1262	1401	1518
37.5	18723	19357	18953	13843	6332	1606	1073	1325	1619	1814
40.0	17392	18013	17897	12606	4616	1192	1053	1405	1892	2122
42.5	16800	17410	16947	11114	3181	1109	1047	1431	2118	2319
45.0	16596	17304	16306	9553	2196	1161	1077	1363	2166	2381
47.5	16594	17607	16212	8025	1613	1291	1180	1260	2102	2279
50.0	16179	17331	15407	6600	1378	1520	1381	1176	1944	2003
52.5	14655	15508	14143	5314	1333	1808	1601	1116	1648	1520
55.0	12903	13882	13184	4476	1427	2062	1771	1043	1311	1054
57.5	12056	13157	12035	4324	1683	2282	1766	961	1021	871
60.0	11112	12272	11101	4679	1989	2326	1507	822	864	822
62.5	9934	11077	10073	5030	2181	1972	1007	774	842	794
65.0	8540	9389	8097	4897	1945	1517	804	761	829	787
67.5	7042	7729	5892	4448	1589	931	741	749	790	790
70.0	5798	6377	4203	3844	1332	679	716	733	747	778
72.5	4547	5019	2738	3318	1009	617	714	746	709	790
75.0	3273	3607	1640	2543	625	570	750	798	683	773
77.5	2156	2277	958	1574	460	527	777	848	634	696
80.0	1163	1178	544	789	350	447	688	770	506	549
82.5	602	507	287	368	202	358	453	538	326	357
85.0	207	122	97	142	77	206	193	238	130	164
87.5	16	14	13	11	8	16	27	25	0	17
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

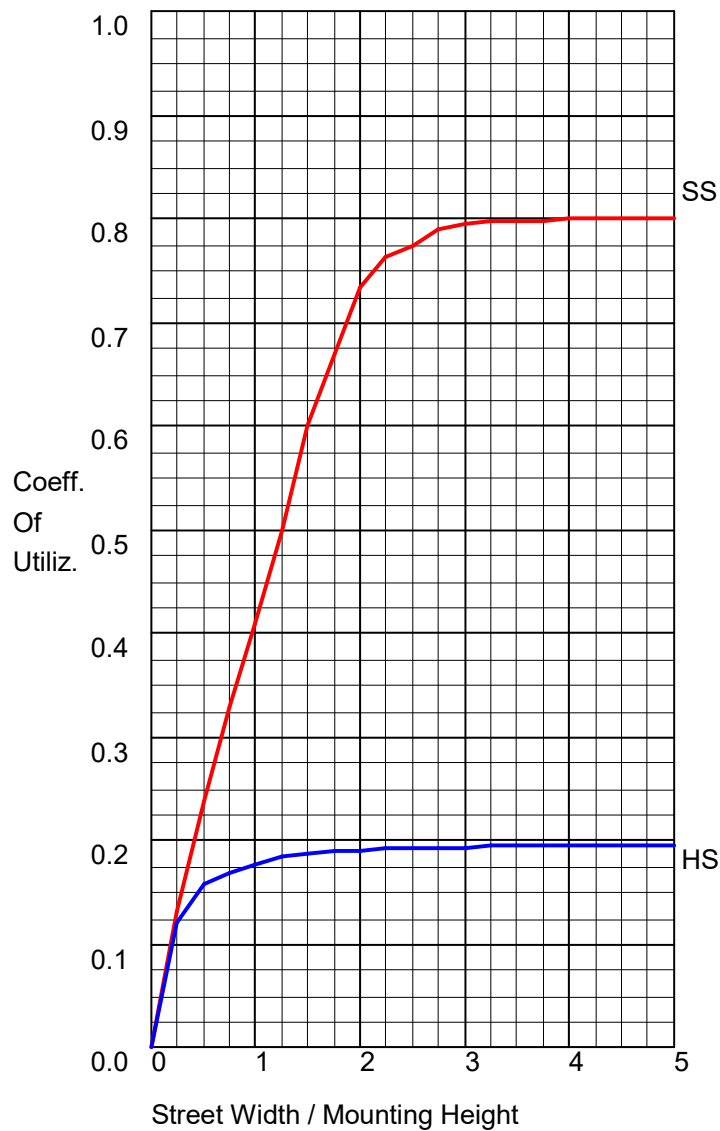
	<b>175.0</b>	<b>180.0</b>
0.0	20081	20081
2.5	20145	20261
5.0	19585	19669
7.5	18597	18660
10.0	16883	16859
12.5	14214	14082
15.0	11197	11006
17.5	7653	7604
20.0	4553	4499
22.5	2425	2387
25.0	1432	1421
27.5	1263	1267
30.0	1268	1277
32.5	1374	1384
35.0	1600	1613
37.5	1926	1939
40.0	2232	2280
42.5	2430	2477
45.0	2449	2481
47.5	2213	2219
50.0	1782	1783
52.5	1232	1220
55.0	951	950
57.5	909	916
60.0	917	930
62.5	932	962
65.0	920	957

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	904	935
<b>70.0</b>	909	930
<b>72.5</b>	957	974
<b>75.0</b>	977	998
<b>77.5</b>	921	951
<b>80.0</b>	770	806
<b>82.5</b>	540	552
<b>85.0</b>	281	282
<b>87.5</b>	57	59
<b>90.0</b>	0	0

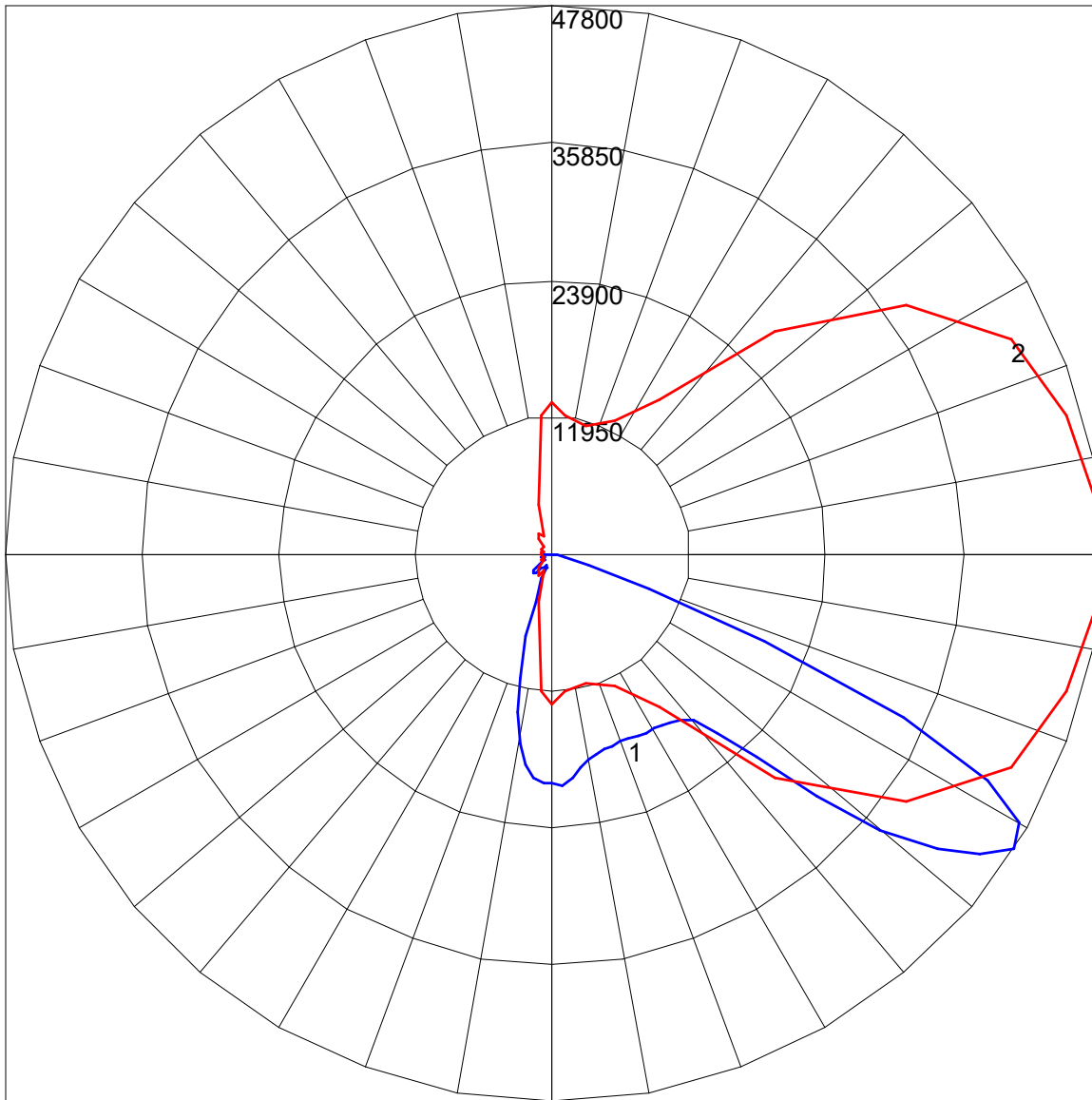
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

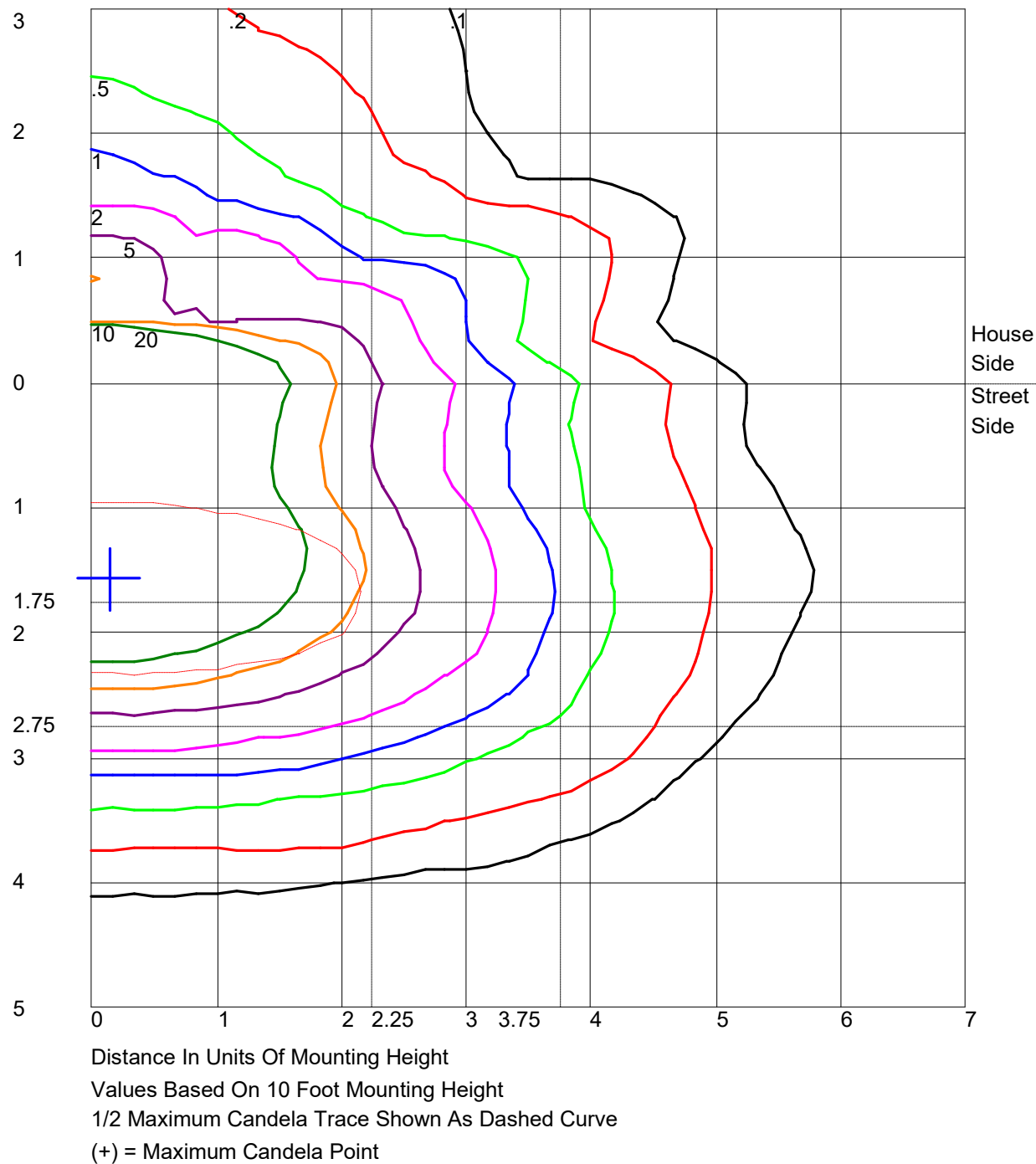
	Lumens	Percent Of Luminaire
Downward Street Side	48229.9	80.2
Downward House Side	11915.4	19.8
Downward Total	60145.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	60145.3	100.0

POLAR GRAPH



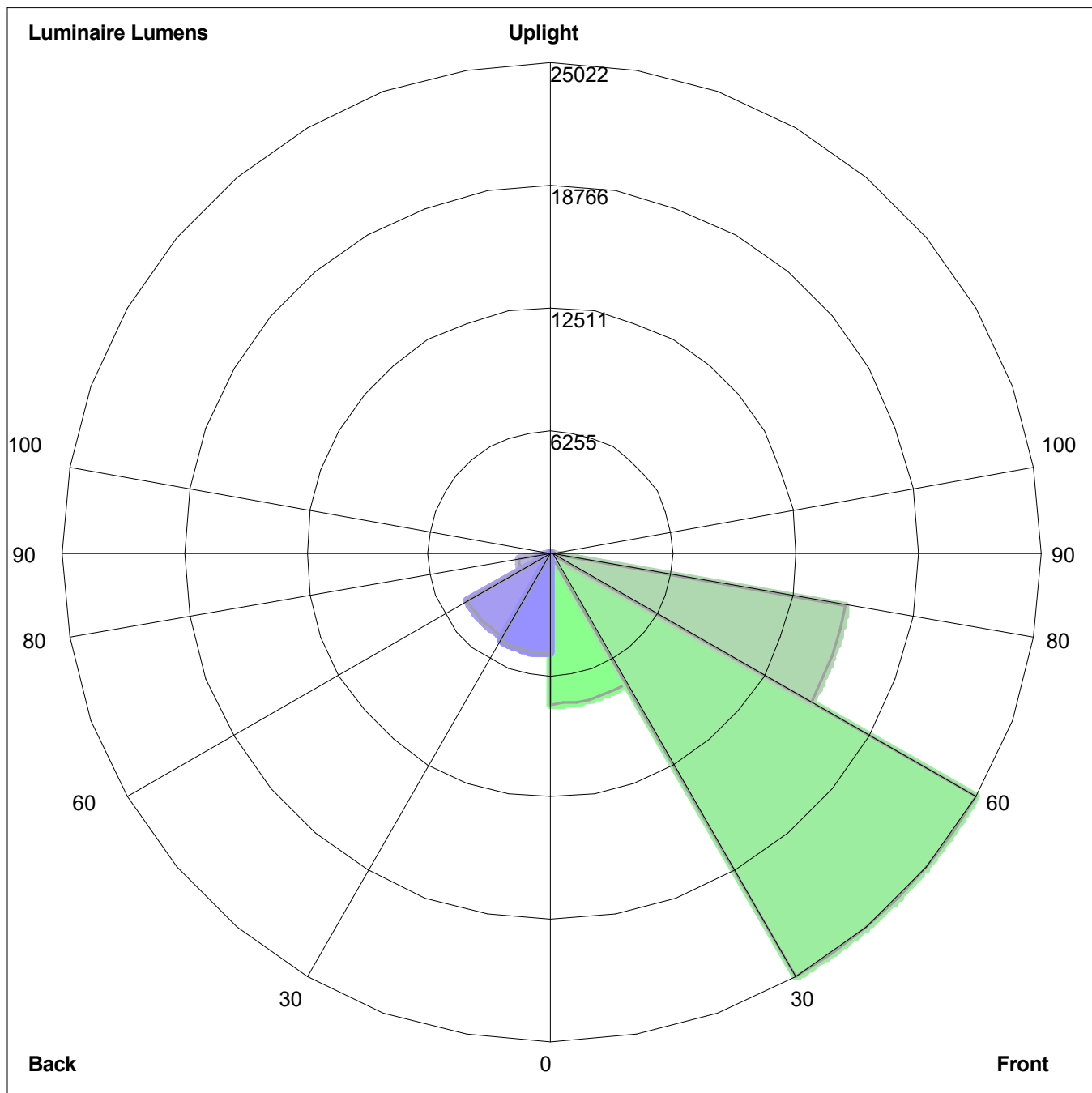
Maximum Candela = 47800 Located At Horizontal Angle = 5, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=7745.7, Medium= 25022.0, High=15313.2, Very High=149.0  
Back: Low=5160.3, Medium=4925.9, High=1708.6, Very High=120.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G5