



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XLCL-FT-LED-HO-NW.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  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] XLCL-FT-LED-HO-NW  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[SEARCH\_SOURCETYPE] 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	58040
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	547.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	46127
Maximum Candela Angle	5H 57.5V
Maximum Candela (<90 Degrees Vertical)	46127
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	2402 (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)	7474.7	N.A.	12.9
FM - Front-Medium (30-60)	24146.2	N.A.	41.6
FH - Front-High (60-80)	14777.2	N.A.	25.5
FVH - Front-Very High (80-90)	143.8	N.A.	0.2
BL - Back-Low (0-30)	4979.7	N.A.	8.6
BM - Back-Medium (30-60)	4753.5	N.A.	8.2
BH - Back-High (60-80)	1648.8	N.A.	2.8
BVH - Back-Very High (80-90)	116.3	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	58040.1	N.A.	100.0
BUG Rating	B4-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>	19378	19378	19378	19378	19378	19378	19378	19378	19378	19378
<b>2.5</b>	19516	19503	19526	19554	19454	19442	19443	19382	19369	19331
<b>5.0</b>	18859	18891	18919	18991	18919	19100	19155	19231	19368	19415
<b>7.5</b>	18081	18064	18096	18211	18207	18457	18697	19001	19320	19567
<b>10.0</b>	17576	17591	17618	17682	17689	17886	18203	18582	19142	19525
<b>12.5</b>	17278	17280	17303	17383	17372	17584	17755	18093	18613	19011
<b>15.0</b>	17083	17058	17098	17167	17164	17356	17560	17767	17995	18259
<b>17.5</b>	16964	16885	16935	17001	16970	17201	17428	17705	17690	17929
<b>20.0</b>	16862	16840	16873	16939	16881	17076	17383	17486	17679	18329
<b>22.5</b>	16845	16893	16865	16960	16882	17001	17143	17242	17679	18884
<b>25.0</b>	16876	16932	16942	16980	16880	16951	16941	17014	17577	18697
<b>27.5</b>	16926	16992	17004	17030	16907	16965	16810	16766	17222	18038
<b>30.0</b>	16991	17048	17063	17089	16985	16942	16673	16592	16823	17356
<b>32.5</b>	17083	17140	17178	17154	16984	16878	16557	16443	16554	17083
<b>35.0</b>	17247	17294	17331	17277	17100	16875	16455	16308	16343	17247
<b>37.5</b>	17520	17616	17641	17546	17248	16893	16402	16164	16267	16894
<b>40.0</b>	18450	18453	18448	18066	17513	16864	16333	15939	15867	16128
<b>42.5</b>	20742	20849	20649	19876	18396	17217	16367	15797	15436	15509
<b>45.0</b>	24350	24497	24171	22957	20428	17970	16424	15578	14963	14945
<b>47.5</b>	30115	30257	30154	27763	23783	19678	16620	15276	14267	14153
<b>50.0</b>	36106	36195	36137	33972	29097	22287	17011	14890	13882	13745
<b>52.5</b>	40606	40641	40833	39214	35487	27027	18578	14520	13471	13012
<b>55.0</b>	43780	43951	43962	42447	40007	32572	21675	14687	12987	12122
<b>57.5</b>	46099	46043	46127	44955	42583	36415	26565	15760	12414	11231
<b>60.0</b>	45156	45234	45380	45278	43730	38346	30995	17779	11856	10381
<b>62.5</b>	40936	41111	41380	42615	41978	38934	32765	21281	11570	9474
<b>65.0</b>	31721	31593	32576	34952	36697	37203	32855	24185	11525	8233
<b>67.5</b>	18473	18346	19355	22463	26919	31725	31091	24243	12034	6992
<b>70.0</b>	8163	8087	8581	10428	14707	21539	25431	22003	12370	5970
<b>72.5</b>	3062	3022	3222	4035	6110	10668	16574	18013	11842	5068
<b>75.0</b>	1054	1040	1037	1331	2192	4093	7787	11902	9210	4061
<b>77.5</b>	445	454	447	481	759	1302	2753	5497	5340	3214
<b>80.0</b>	236	238	233	234	303	379	797	1724	2343	2402
<b>82.5</b>	121	123	119	116	107	130	191	400	675	1357
<b>85.0</b>	39	41	39	41	27	43	53	53	105	458
<b>87.5</b>	1	1	2	5	8	11	13	14	14	28
<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>	19378	19378	19378	19378	19378	19378	19378	19378	19378	19378
<b>2.5</b>	19287	19326	19346	19247	19298	19256	19388	19433	19355	19423
<b>5.0</b>	19426	19457	19467	19341	19287	19127	19103	19032	18922	18934
<b>7.5</b>	19713	19734	19757	19531	19319	18939	18713	18441	18147	18058
<b>10.0</b>	19709	19810	19827	19569	19161	18558	18107	17555	16827	16576
<b>12.5</b>	19270	19389	19479	19261	18704	17884	16919	15801	14780	14037
<b>15.0</b>	18604	18803	18963	18723	18037	16660	15284	13581	12342	11349
<b>17.5</b>	18606	18901	19028	18565	17191	15101	13133	11045	9353	8223
<b>20.0</b>	19445	19783	19741	18627	16444	13406	10881	8335	6362	5167
<b>22.5</b>	20637	21051	20799	18743	15577	11742	8316	5649	3773	2768
<b>25.0</b>	20599	21072	20736	18400	14331	9893	6033	3441	2069	1538
<b>27.5</b>	19803	20333	20121	17515	12959	7937	3952	1986	1317	1213

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**CANDELA TABULATION - (Cont.)**

30.0	19149	19860	19709	16622	11427	5894	2378	1331	1191	1205
32.5	18922	19700	19427	15559	9666	3998	1448	1199	1232	1276
35.0	18776	19530	19042	14479	7847	2527	1109	1218	1352	1465
37.5	18068	18680	18290	13358	6110	1550	1035	1279	1562	1751
40.0	16783	17383	17271	12165	4454	1150	1016	1356	1826	2048
42.5	16212	16801	16354	10725	3070	1070	1010	1381	2044	2238
45.0	16015	16698	15735	9219	2119	1120	1039	1315	2090	2298
47.5	16013	16991	15645	7744	1557	1246	1139	1216	2028	2199
50.0	15613	16724	14868	6369	1330	1467	1333	1135	1876	1933
52.5	14142	14965	13648	5128	1286	1745	1545	1077	1590	1467
55.0	12451	13396	12723	4319	1377	1990	1709	1006	1265	1017
57.5	11634	12697	11614	4173	1624	2202	1704	927	985	841
60.0	10723	11842	10712	4515	1919	2245	1454	793	834	793
62.5	9586	10689	9720	4854	2105	1903	972	747	813	766
65.0	8241	9060	7814	4726	1877	1464	776	734	800	759
67.5	6796	7458	5686	4292	1533	898	715	723	762	762
70.0	5595	6154	4056	3709	1285	655	691	707	721	751
72.5	4388	4843	2642	3202	974	595	689	720	684	762
75.0	3158	3481	1583	2454	603	550	724	770	659	746
77.5	2081	2197	924	1519	444	509	750	818	612	672
80.0	1122	1137	525	761	338	431	664	743	488	530
82.5	581	489	277	355	195	345	437	519	315	345
85.0	200	118	94	137	74	199	186	230	125	158
87.5	15	14	13	11	8	15	26	24	0	16
90.0	0	0	0	0	0	0	0	0	0	0

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

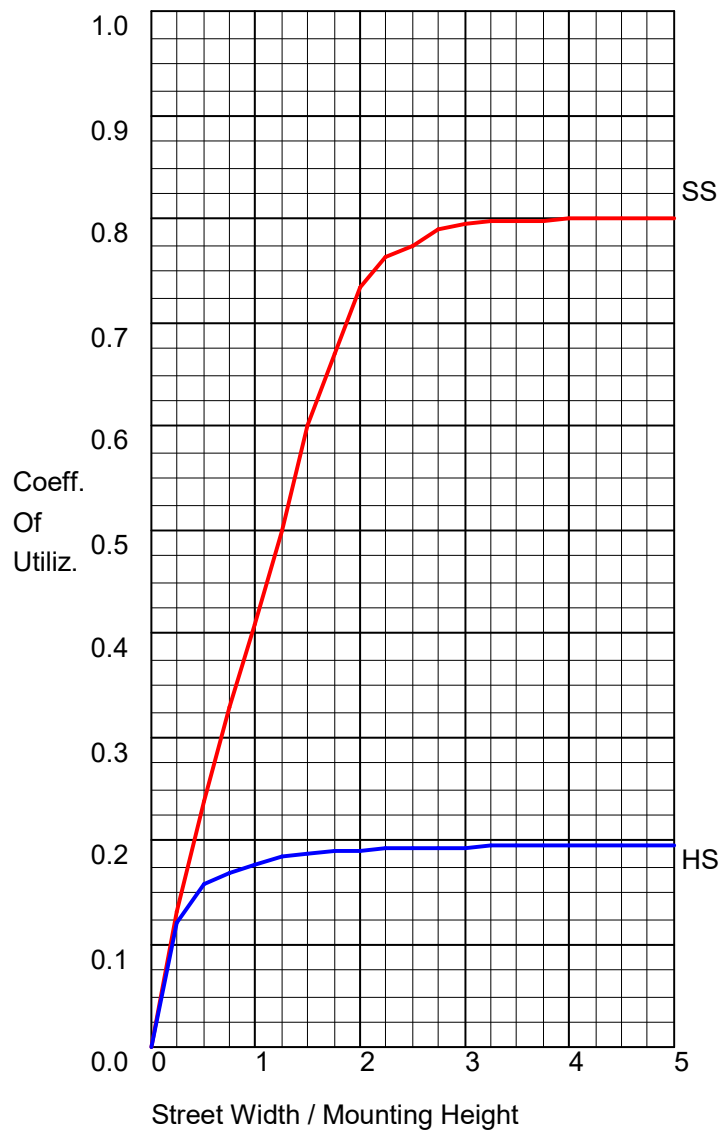
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	19378	19378
2.5	19440	19552
5.0	18900	18981
7.5	17946	18007
10.0	16292	16269
12.5	13717	13589
15.0	10805	10621
17.5	7385	7338
20.0	4394	4342
22.5	2340	2303
25.0	1382	1371
27.5	1219	1223
30.0	1224	1232
32.5	1326	1336
35.0	1544	1557
37.5	1859	1871
40.0	2154	2200
42.5	2345	2390
45.0	2363	2394
47.5	2136	2141
50.0	1720	1721
52.5	1189	1177
55.0	918	917
57.5	877	884
60.0	885	897
62.5	899	928
65.0	888	924

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	872	902
<b>70.0</b>	877	897
<b>72.5</b>	924	940
<b>75.0</b>	943	963
<b>77.5</b>	889	918
<b>80.0</b>	743	778
<b>82.5</b>	521	533
<b>85.0</b>	271	272
<b>87.5</b>	55	57
<b>90.0</b>	0	0

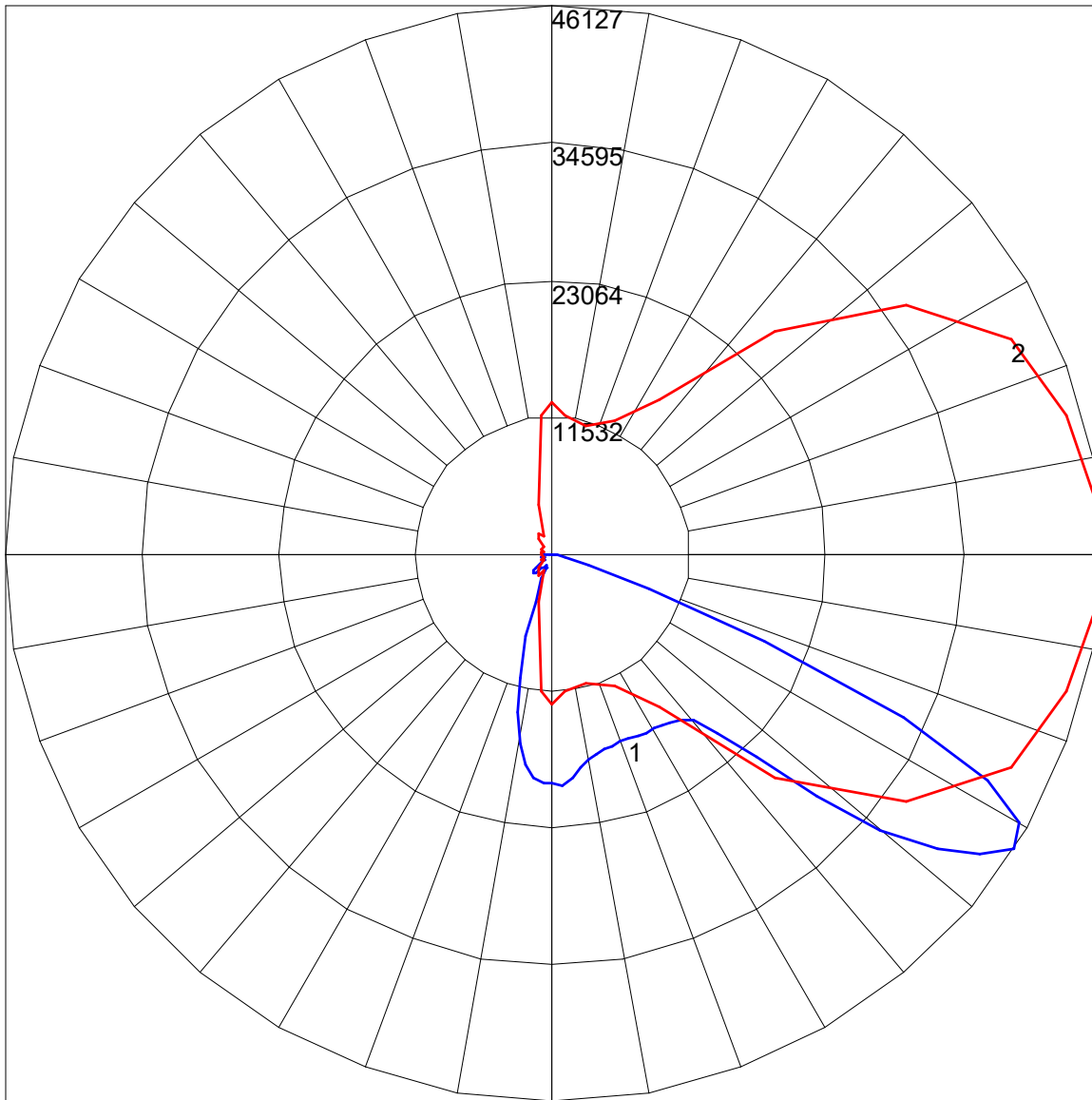
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

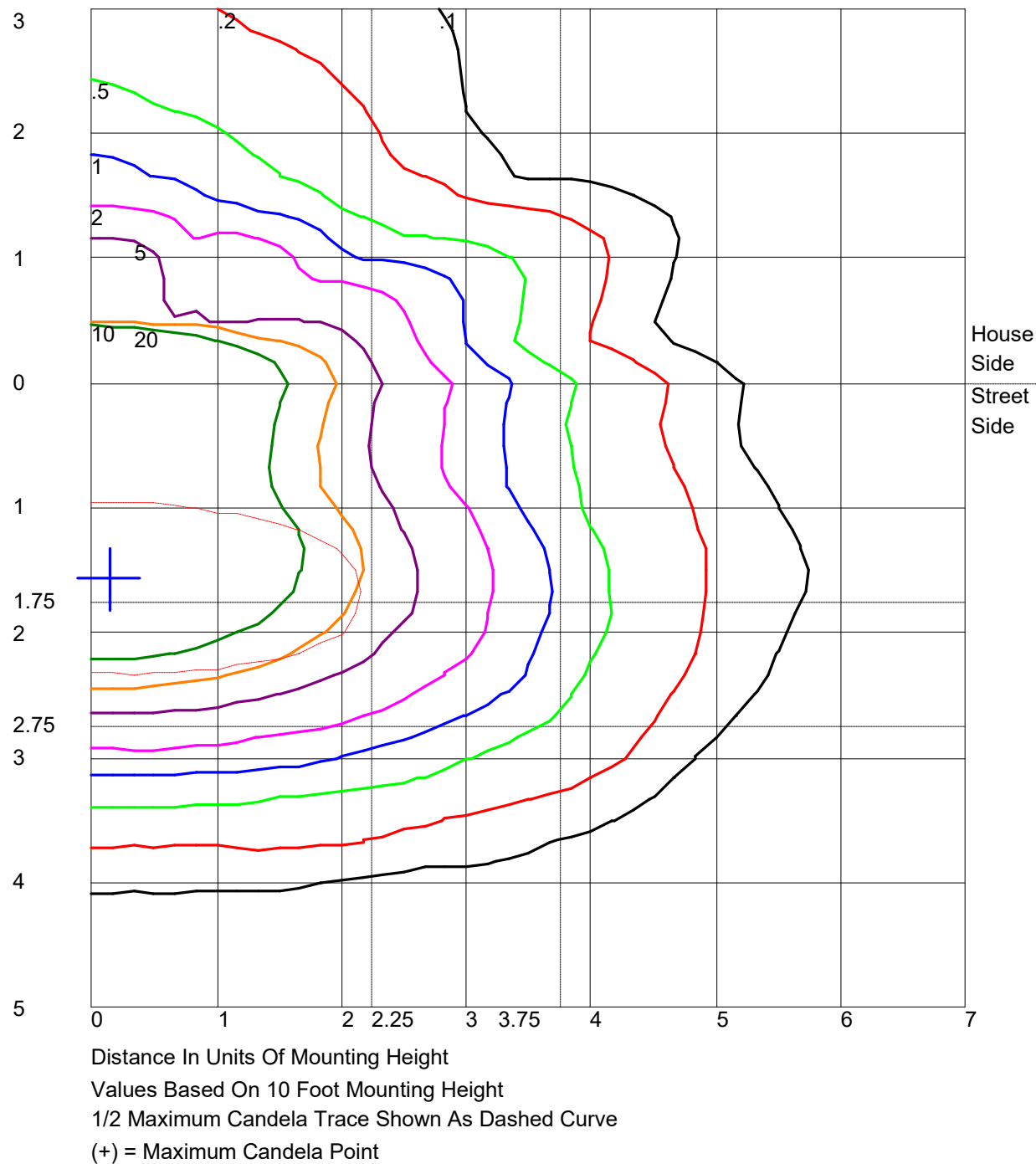
	Lumens	Percent Of Luminaire
Downward Street Side	46541.8	80.2
Downward House Side	11498.3	19.8
Downward Total	58040.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	58040.1	100.0

POLAR GRAPH



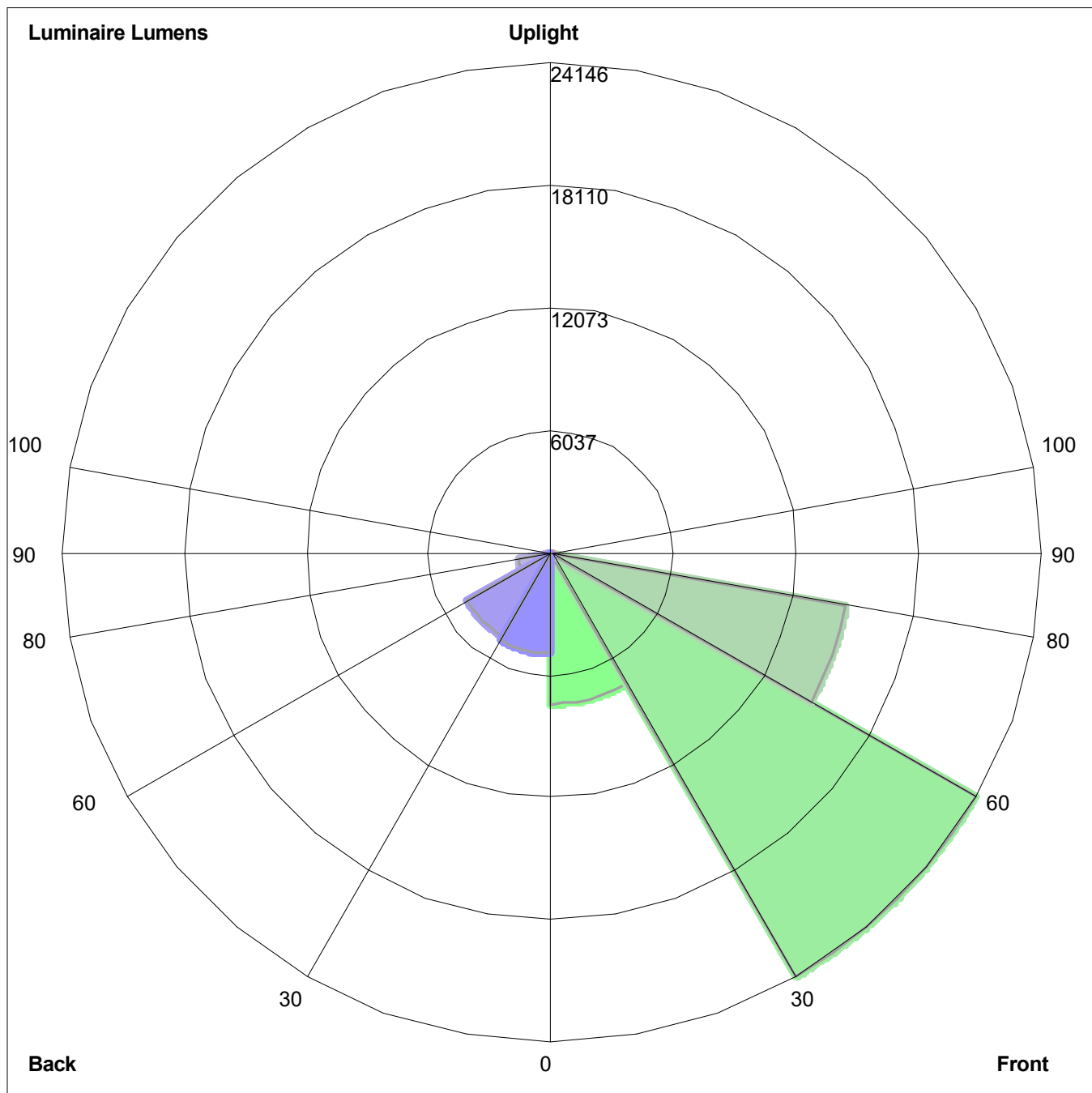
Maximum Candela = 46127 Located At Horizontal Angle = 5, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=7474.7, Medium=24146.2, High=14777.2, Very High=143.8  
Back: Low=4979.7, Medium=4753.5, High=1648.8, Very High=116.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G5