



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12324  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 11/20/2020  
[TEST DATE] 11/17/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] XLCL-FT-LED-SS-CW  
[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	51941
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	437.68
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	41280
Maximum Candela Angle	5H 57.5V
Maximum Candela (<90 Degrees Vertical)	41280
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	2150 (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)	6689.2	N.A.	12.9
FM - Front-Medium (30-60)	21608.9	N.A.	41.6
FH - Front-High (60-80)	13224.5	N.A.	25.5
FVH - Front-Very High (80-90)	128.6	N.A.	0.2
BL - Back-Low (0-30)	4456.5	N.A.	8.6
BM - Back-Medium (30-60)	4254.0	N.A.	8.2
BH - Back-High (60-80)	1475.5	N.A.	2.8
BVH - Back-Very High (80-90)	104.1	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	51941.3	N.A.	100.0
BUG Rating	B4-U0-G5		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0.0</b>	<b>2.5</b>	<b>5.0</b>	<b>15.0</b>	<b>25.0</b>	<b>35.0</b>	<b>45.0</b>	<b>55.0</b>	<b>65.0</b>	<b>75.0</b>
<b>0.0</b>	17342	17342	17342	17342	17342	17342	17342	17342	17342	17342
<b>2.5</b>	17465	17453	17474	17499	17410	17399	17400	17345	17334	17300
<b>5.0</b>	16877	16906	16931	16996	16931	17093	17142	17211	17332	17375
<b>7.5</b>	16181	16166	16194	16298	16294	16517	16732	17004	17290	17511
<b>10.0</b>	15729	15743	15767	15824	15831	16007	16290	16629	17130	17473
<b>12.5</b>	15463	15464	15485	15556	15547	15737	15889	16192	16657	17014
<b>15.0</b>	15288	15266	15301	15363	15361	15532	15715	15900	16104	16340
<b>17.5</b>	15181	15110	15155	15215	15186	15394	15597	15844	15832	16045
<b>20.0</b>	15091	15071	15100	15159	15107	15281	15556	15648	15821	16403
<b>22.5</b>	15075	15118	15093	15178	15108	15215	15342	15430	15821	16900
<b>25.0</b>	15103	15153	15161	15196	15106	15170	15160	15226	15730	16732
<b>27.5</b>	15148	15206	15217	15241	15130	15182	15044	15004	15413	16142
<b>30.0</b>	15205	15256	15270	15293	15200	15161	14921	14849	15055	15532
<b>32.5</b>	15288	15339	15373	15351	15199	15104	14818	14715	14814	15288
<b>35.0</b>	15435	15477	15510	15462	15303	15102	14726	14594	14626	15435
<b>37.5</b>	15679	15765	15787	15702	15436	15118	14679	14465	14558	15119
<b>40.0</b>	16511	16514	16509	16167	15673	15092	14616	14264	14200	14433
<b>42.5</b>	18562	18658	18479	17788	16463	15407	14648	14137	13814	13879
<b>45.0</b>	21791	21922	21631	20545	18282	16082	14698	13941	13391	13375
<b>47.5</b>	26950	27077	26986	24846	21284	17611	14874	13671	12767	12666
<b>50.0</b>	32312	32392	32340	30402	26039	19945	15224	13325	12423	12301
<b>52.5</b>	36339	36371	36542	35093	31758	24187	16626	12995	12056	11645
<b>55.0</b>	39180	39333	39342	37987	35803	29149	19397	13144	11622	10849
<b>57.5</b>	41255	41205	41280	40232	38108	32589	23774	14104	11109	10051
<b>60.0</b>	40411	40481	40612	40520	39135	34317	27738	15911	10610	9291
<b>62.5</b>	36635	36791	37032	38137	37567	34843	29322	19045	10355	8479
<b>65.0</b>	28387	28273	29153	31280	32841	33294	29403	21644	10314	7368
<b>67.5</b>	16532	16418	17321	20103	24090	28392	27824	21695	10769	6258
<b>70.0</b>	7305	7237	7679	9332	13161	19276	22758	19691	11070	5343
<b>72.5</b>	2740	2705	2884	3611	5468	9547	14832	16120	10597	4536
<b>75.0</b>	943	931	928	1191	1962	3663	6968	10652	8242	3634
<b>77.5</b>	398	406	400	430	680	1165	2464	4919	4779	2877
<b>80.0</b>	212	213	208	210	271	339	713	1543	2097	2150
<b>82.5</b>	108	110	106	104	96	117	171	358	604	1214
<b>85.0</b>	35	36	35	36	24	39	47	47	94	410
<b>87.5</b>	1	1	2	4	7	9	11	12	12	25
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>85.0</b>	<b>90.0</b>	<b>95.0</b>	<b>105.0</b>	<b>115.0</b>	<b>125.0</b>	<b>135.0</b>	<b>145.0</b>	<b>155.0</b>	<b>165.0</b>
<b>0.0</b>	17342	17342	17342	17342	17342	17342	17342	17342	17342	17342
<b>2.5</b>	17261	17295	17313	17225	17270	17232	17351	17391	17321	17382
<b>5.0</b>	17385	17413	17421	17308	17261	17117	17096	17032	16933	16945
<b>7.5</b>	17642	17661	17681	17478	17289	16949	16747	16503	16240	16161
<b>10.0</b>	17638	17729	17744	17513	17148	16608	16205	15711	15059	14834
<b>12.5</b>	17245	17351	17432	17237	16738	16005	15141	14141	13227	12562
<b>15.0</b>	16649	16827	16971	16756	16142	14909	13678	12154	11045	10157
<b>17.5</b>	16651	16915	17028	16614	15385	13514	11753	9885	8370	7359
<b>20.0</b>	17402	17705	17667	16670	14716	11997	9738	7459	5694	4624
<b>22.5</b>	18468	18839	18613	16774	13940	10508	7443	5056	3377	2477
<b>25.0</b>	18434	18858	18557	16466	12825	8854	5399	3080	1852	1377
<b>27.5</b>	17722	18196	18007	15674	11597	7103	3536	1777	1179	1086

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**CANDELA TABULATION - (Cont.)**

30.0	17137	17773	17638	14876	10226	5275	2128	1191	1066	1079
32.5	16933	17630	17386	13924	8651	3578	1296	1073	1103	1142
35.0	16803	17478	17041	12957	7023	2262	992	1090	1210	1311
37.5	16169	16717	16368	11955	5468	1387	927	1144	1398	1567
40.0	15020	15556	15456	10887	3986	1029	909	1213	1634	1833
42.5	14508	15035	14635	9598	2747	958	904	1236	1829	2003
45.0	14332	14944	14082	8250	1896	1003	930	1177	1871	2056
47.5	14331	15205	14001	6930	1393	1115	1019	1088	1815	1968
50.0	13972	14967	13305	5700	1190	1313	1193	1016	1679	1730
52.5	12656	13393	12214	4589	1151	1561	1383	964	1423	1313
55.0	11143	11988	11386	3865	1232	1781	1529	901	1132	910
57.5	10412	11362	10393	3734	1453	1971	1525	830	882	752
60.0	9596	10598	9587	4041	1718	2009	1301	710	746	710
62.5	8579	9566	8699	4344	1884	1703	870	668	727	686
65.0	7375	8108	6993	4229	1680	1310	694	657	716	680
67.5	6081	6675	5088	3841	1372	804	640	647	682	682
70.0	5007	5507	3630	3320	1150	586	618	633	645	672
72.5	3927	4334	2365	2865	871	533	617	644	612	682
75.0	2827	3115	1416	2196	540	492	648	689	590	668
77.5	1862	1966	827	1359	397	455	671	732	548	601
80.0	1004	1017	470	681	302	386	594	665	437	474
82.5	520	438	248	318	174	309	391	465	282	308
85.0	179	105	84	123	66	178	167	206	112	142
87.5	14	12	11	9	7	14	23	22	0	15
90.0	0	0	0	0	0	0	0	0	0	0

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

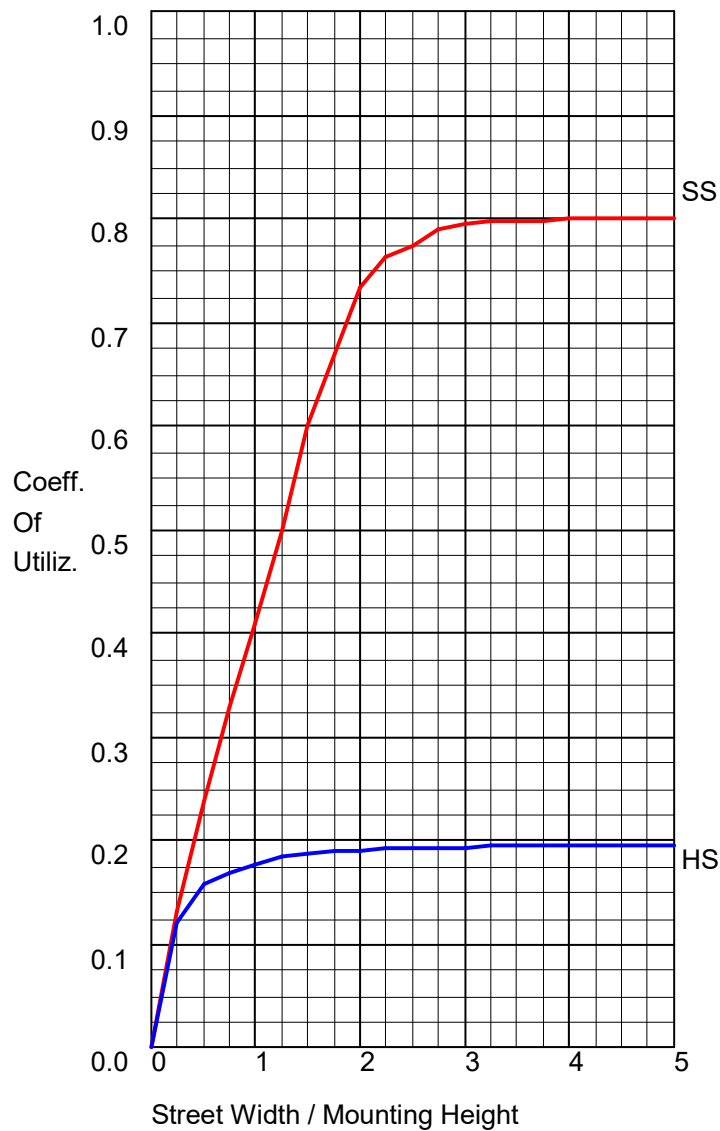
	<b>175.0</b>	<b>180.0</b>
0.0	17342	17342
2.5	17397	17497
5.0	16914	16986
7.5	16060	16115
10.0	14580	14559
12.5	12275	12161
15.0	9670	9505
17.5	6609	6567
20.0	3932	3885
22.5	2094	2061
25.0	1237	1227
27.5	1091	1094
30.0	1095	1103
32.5	1187	1195
35.0	1382	1393
37.5	1663	1675
40.0	1928	1969
42.5	2099	2139
45.0	2115	2143
47.5	1911	1916
50.0	1539	1540
52.5	1064	1054
55.0	821	820
57.5	785	791
60.0	792	803
62.5	805	831
65.0	795	826

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	781	807
<b>70.0</b>	785	803
<b>72.5</b>	826	841
<b>75.0</b>	844	862
<b>77.5</b>	795	821
<b>80.0</b>	665	696
<b>82.5</b>	466	477
<b>85.0</b>	243	244
<b>87.5</b>	49	51
<b>90.0</b>	0	0

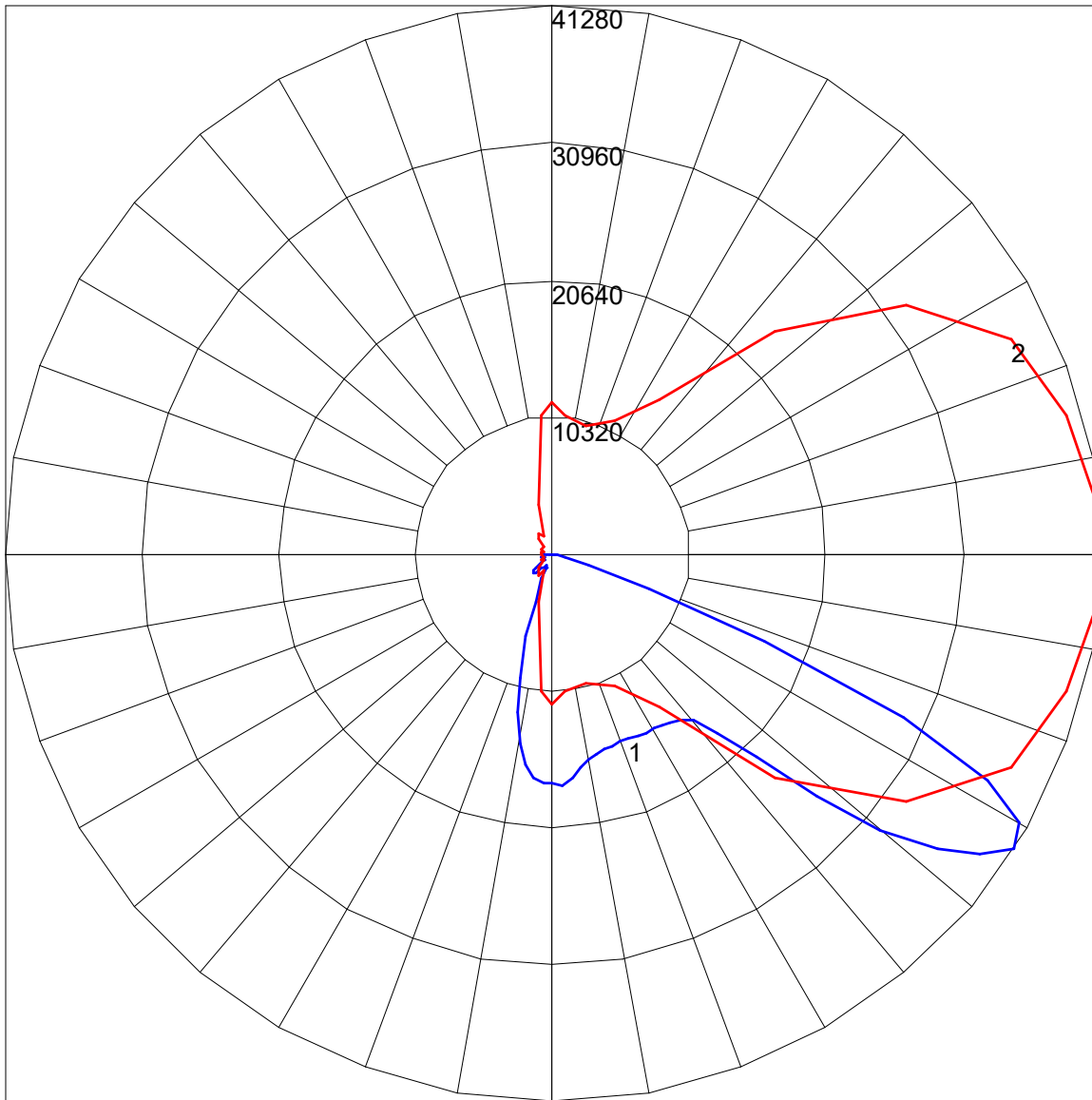
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

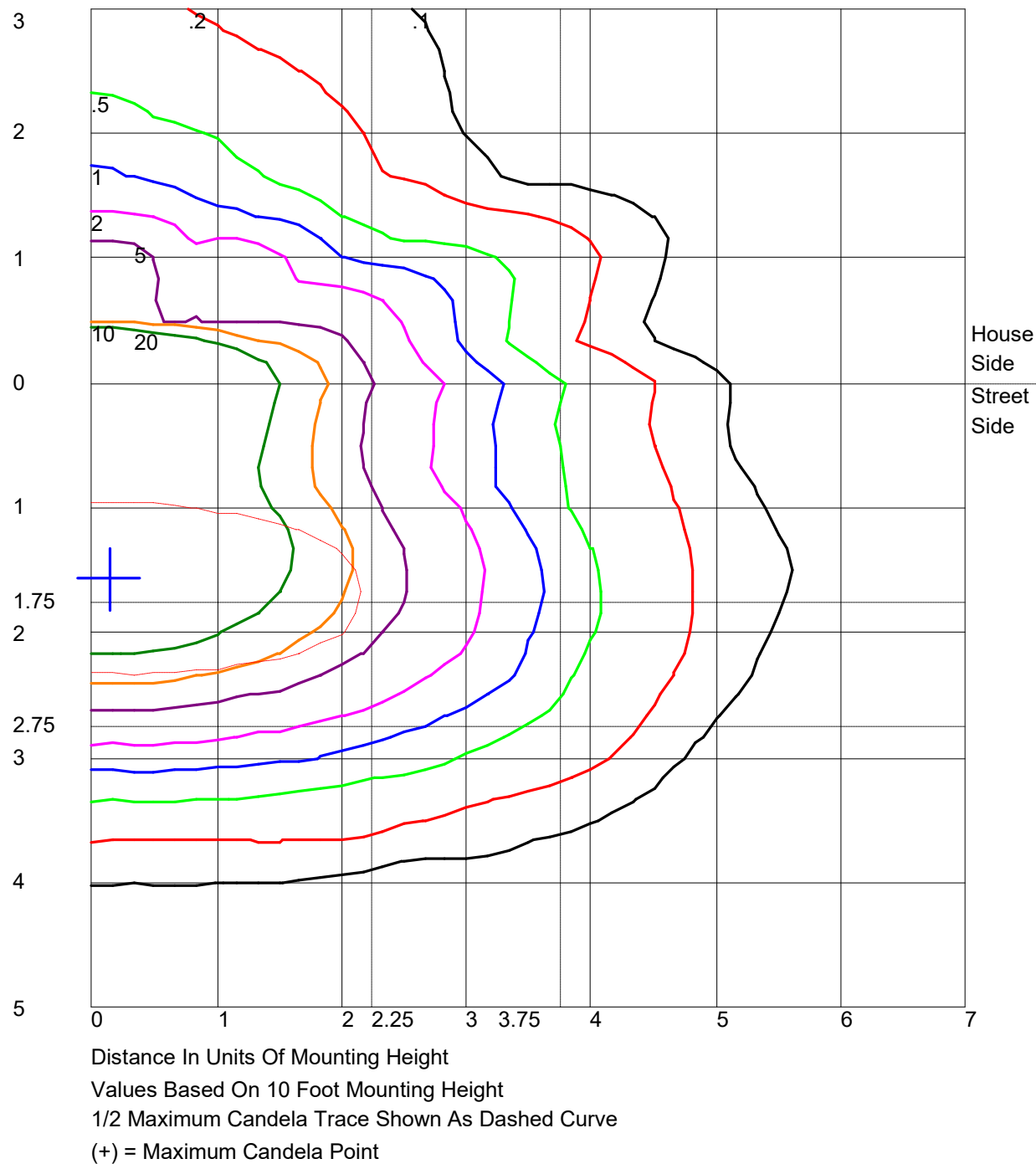
	Lumens	Percent Of Luminaire
Downward Street Side	41651.3	80.2
Downward House Side	10290.2	19.8
Downward Total	51941.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	51941.5	100.0

POLAR GRAPH



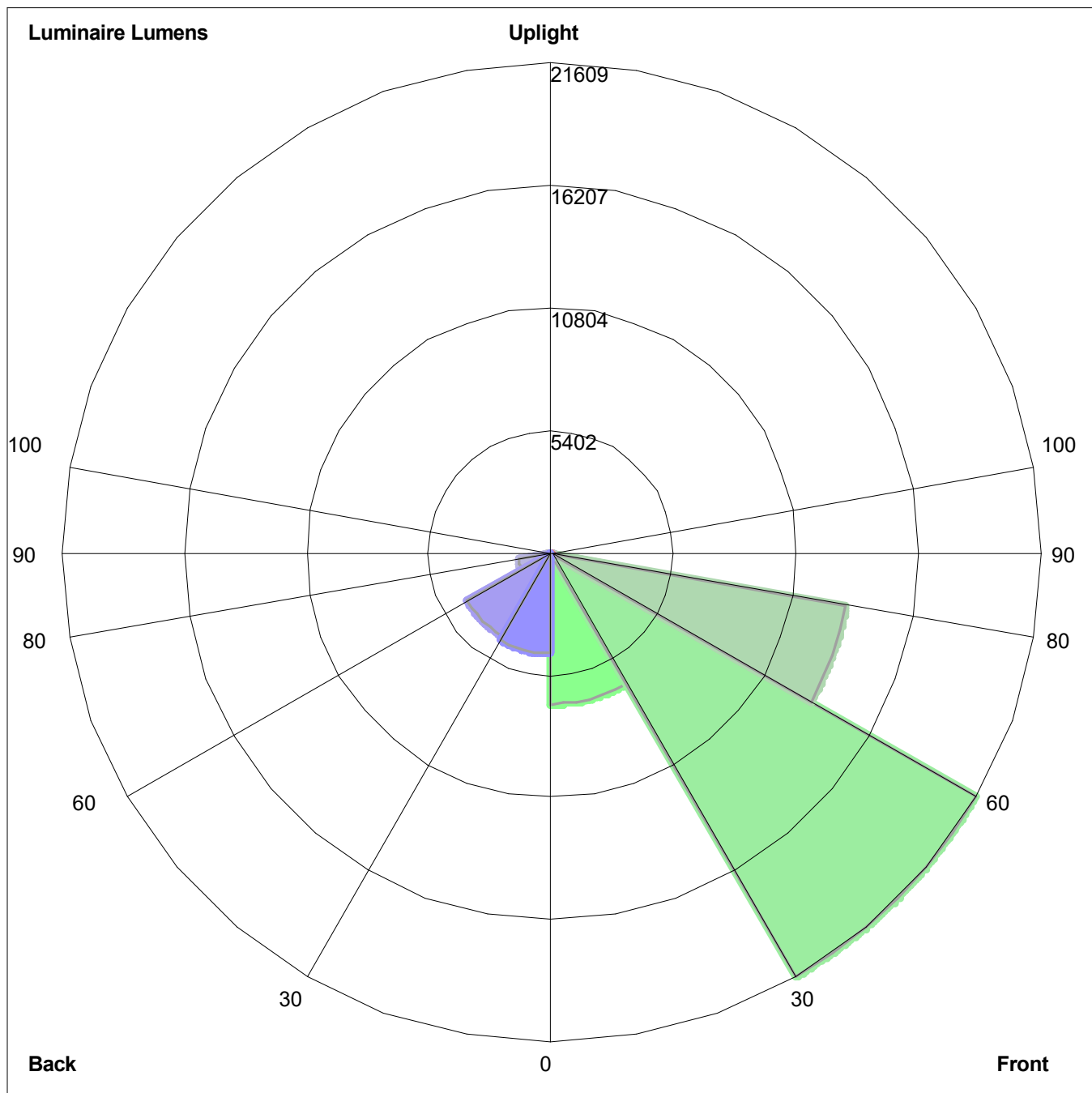
Maximum Candela = 41280 Located At Horizontal Angle = 5, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=6689.2, Medium=21608.9, High=13224.5, Very High=128.6  
Back: Low=4456.5, Medium= 4254.0, High=1475.5, Very High=104.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G5