



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000535-011
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] 155SW-48LED59DMV30
 [LUMINAIRE] Catalog Number: 155SW-48LED59DMV30
 [MORE] Wall mounted, formed white steel housing, white enamel internal reflector, plastic prismatic lens enclosure
 [MORE] 120 white LEDs
 [MORE] One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L LED power supply set at 588mA
 [MORE] 120.0Vac, 60.0Hz, 0.4852, 57.96W, 0.996PF, 8.1%THD(i)
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 9.5m.
 [MORE] This IES file was extrapolated from 155SW-48LED30DMV30 and supported in report LLIA000535-018
 [DATE] This file created: Friday, January 22, 2016 1:23:57 PM
 [ISSUEDATE] Friday, January 22, 2016 1:23:57 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6540
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	57.96
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.07 m
Luminous Width (90-270)	0.68 m
Luminous Height	0.11 m

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11854	8482	8740
55	17898	9961	6880
65	25293	13370	4741
75	28334	17985	2937
85	31440	22728	1022

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	331.173	331.173	331.173	331.173	331.173	331.173	331.173	331.173	331.173
0.5	345.980	347.245	343.899	336.444	332.473	323.978	320.233	317.216	314.771
1.0	360.041	360.838	354.961	342.894	332.612	318.395	310.749	305.652	302.583
1.5	375.420	374.223	364.601	348.581	332.734	313.211	302.427	295.283	291.677
2.0	392.983	390.417	375.420	354.302	332.456	308.287	294.815	285.782	281.378
2.5	409.524	406.455	387.730	359.729	332.630	303.814	287.343	276.697	271.964
3.0	422.891	420.360	400.647	365.086	333.063	299.445	280.182	268.392	263.624
3.5	435.721	431.682	411.899	370.756	333.254	295.492	273.906	261.058	254.782
4.0	446.315	442.587	422.146	377.015	333.358	291.729	267.837	252.181	245.211
4.5	458.850	452.643	430.815	383.742	333.566	287.828	262.099	242.957	235.242
5.0	476.032	465.508	438.911	390.642	333.774	283.962	255.874	234.046	225.793
5.5	499.178	483.037	446.644	397.387	334.138	280.113	249.234	225.654	218.043
6.0	520.417	504.883	455.296	403.663	334.277	276.576	242.351	218.736	210.951
6.5	537.617	524.266	465.491	409.922	334.693	273.195	235.693	212.269	203.565
7.0	553.706	540.339	478.182	415.696	334.866	270.005	229.139	205.663	195.746
7.5	567.837	555.093	494.376	420.620	335.421	266.919	223.660	198.624	187.493
8.0	580.927	568.236	511.107	425.266	335.768	263.902	218.736	190.961	179.431
8.5	596.011	580.702	525.532	429.792	335.976	260.816	213.743	183.557	171.906
9.0	611.702	593.324	538.120	434.265	336.496	257.851	208.628	176.484	165.300
9.5	628.849	608.997	549.545	438.894	336.964	254.643	203.548	170.172	158.591
10.0	641.974	624.064	559.723	443.454	337.155	251.210	198.104	163.792	152.193
10.5	651.319	638.559	569.155	448.222	337.762	247.725	192.643	157.932	146.003
11.0	658.584	647.644	578.569	453.840	338.091	244.310	186.990	152.210	140.143
11.5	664.392	655.862	588.521	459.353	338.472	240.929	181.702	146.385	134.300
12.0	666.837	661.479	599.669	465.699	338.854	237.635	176.778	141.131	129.099
12.5	670.114	665.467	610.800	473.206	339.513	234.566	172.010	135.878	124.487
13.0	676.234	667.322	622.486	482.014	339.686	231.514	167.364	131.006	120.204
13.5	686.672	670.270	632.594	490.908	340.224	228.671	162.786	126.689	116.563
14.0	700.265	676.546	639.651	499.664	341.056	225.845	158.452	122.753	113.391
14.5	709.454	686.862	645.182	508.333	341.628	222.793	154.031	119.303	110.460
15.0	717.568	698.808	649.516	515.840	342.027	220.210	149.852	116.182	108.033
15.5	721.625	707.200	652.117	522.602	342.686	217.523	145.743	113.391	105.918
16.0	717.429	715.193	653.313	528.948	343.292	214.887	141.738	110.859	104.236
16.5	711.604	719.544	654.579	535.172	344.038	212.564	137.958	108.761	103.057
17.0	704.599	717.065	656.729	541.206	344.489	209.911	134.317	106.975	102.260
17.5	698.392	711.031	660.838	547.083	345.009	207.397	130.937	105.588	101.739
18.0	694.734	703.940	667.860	551.626	345.806	204.692	127.868	104.617	101.289
18.5	697.421	697.681	675.749	556.845	346.500	202.161	124.920	103.959	100.907
19.0	704.547	691.353	682.788	562.271	347.193	199.474	122.181	103.421	100.699
19.5	707.408	690.399	687.608	566.987	347.991	197.202	119.736	102.988	100.647
20.0	704.218	693.849	691.543	571.790	348.893	194.792	117.448	102.710	100.508
20.5	698.773	698.201	693.312	577.251	349.499	192.417	115.384	102.416	100.630
21.0	697.872	699.328	692.618	582.435	350.384	189.938	113.495	102.225	100.838
21.5	694.387	696.242	687.885	587.203	351.060	187.857	111.778	102.086	101.011
22.0	684.972	690.469	683.117	591.711	351.753	185.603	110.218	102.051	101.254
22.5	670.408	687.642	678.176	594.347	352.273	183.436	108.917	102.121	101.497
23.0	655.220	683.065	674.275	595.855	352.759	181.321	107.894	102.260	101.705
23.5	645.650	674.396	669.351	596.878	353.539	179.292	107.079	102.433	101.913
24.0	643.656	664.739	664.149	597.415	354.163	177.333	106.403	102.658	102.190
24.5	642.581	651.631	660.786	597.676	354.683	175.443	105.866	102.832	102.572
25.0	639.512	642.269	658.532	597.363	355.360	173.640	105.380	103.057	102.936
25.5	631.693	637.640	656.746	596.497	355.880	171.768	104.964	103.300	103.491
26.0	625.139	635.403	655.030	596.549	356.539	169.947	104.635	103.577	103.941
26.5	616.747	633.496	651.597	597.415	357.284	167.988	104.236	103.976	104.496

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

CANDELA TABULATION - (Cont.)

27.0	614.268	628.346	646.863	598.751	357.995	166.237	103.941	104.357	105.190
27.5	618.551	620.319	639.564	600.068	358.550	164.295	103.647	104.808	105.779
28.0	624.151	614.597	632.039	600.675	359.191	162.405	103.404	105.328	106.386
28.5	627.601	611.130	626.769	600.432	359.902	160.533	103.213	105.866	107.166
29.0	631.537	609.448	623.544	599.548	360.474	158.625	103.109	106.455	107.808
29.5	633.999	612.413	619.435	597.554	361.064	156.770	102.953	107.062	108.588
30.0	637.588	617.822	613.627	595.110	361.515	155.106	102.866	107.652	109.333
30.5	642.997	622.486	608.581	591.555	361.757	153.389	102.745	108.241	109.958
31.0	642.373	627.618	602.582	587.966	362.035	151.690	102.710	108.883	110.564
31.5	642.408	631.987	595.924	584.048	361.948	150.112	102.658	109.594	111.206
32.0	649.707	634.553	588.001	579.557	362.139	148.691	102.676	110.235	111.709
32.5	663.907	636.426	579.627	574.928	362.468	147.182	102.676	110.877	112.160
33.0	678.956	634.970	572.882	571.634	362.538	145.674	102.728	111.431	112.524
33.5	693.000	636.235	567.178	568.877	362.780	144.235	102.849	111.917	112.940
34.0	705.188	643.899	563.069	565.843	362.884	142.969	103.022	112.333	113.269
34.5	713.927	654.735	562.323	561.578	363.110	141.651	103.126	112.714	113.564
35.0	716.840	669.143	560.988	556.324	363.283	140.316	103.386	113.044	113.876
35.5	715.175	682.302	560.347	549.927	363.647	139.033	103.629	113.339	114.257
36.0	725.318	693.121	560.780	542.974	364.115	137.681	103.855	113.616	114.500
36.5	749.574	701.773	563.658	535.796	364.202	136.450	104.097	113.876	114.483
37.0	767.189	705.778	569.536	527.873	364.150	135.340	104.340	114.084	114.448
37.5	775.390	704.963	576.090	519.707	364.237	134.179	104.600	114.396	114.275
38.0	782.117	708.032	580.598	511.558	364.202	133.086	104.912	114.674	114.101
38.5	789.087	718.643	584.273	503.270	363.838	132.029	105.155	114.916	113.928
39.0	799.126	733.415	585.036	496.075	363.370	130.989	105.467	115.072	113.616
39.5	805.298	747.025	585.470	490.249	362.607	130.070	105.710	115.159	113.286
40.0	819.637	754.359	585.279	485.811	361.827	129.099	105.987	115.055	112.922
40.5	842.332	757.861	585.001	481.234	360.821	128.249	106.230	114.934	112.593
41.0	870.541	763.444	587.047	477.072	359.764	127.452	106.525	114.674	112.142
41.5	896.375	772.703	593.254	472.755	358.151	126.689	106.854	114.431	111.657
42.0	914.267	782.776	603.154	469.028	356.417	125.943	107.045	114.119	111.223
42.5	930.149	794.722	615.100	465.387	354.337	125.163	107.288	113.893	110.772
43.0	945.146	812.320	625.226	461.624	352.135	124.452	107.496	113.564	110.443
43.5	961.080	832.207	631.623	457.637	349.447	123.759	107.617	113.182	110.183
44.0	979.042	851.105	634.172	454.100	346.691	123.048	107.756	112.801	109.836
44.5	998.374	868.166	631.693	450.719	343.431	122.406	107.808	112.350	109.472
45.0	1013.025	882.920	627.965	447.147	340.050	121.747	107.825	111.899	109.021
45.5	1030.380	899.045	623.579	443.211	336.375	121.054	107.790	111.449	108.519
46.0	1051.394	914.857	619.886	439.050	332.352	120.378	107.738	111.033	107.912
46.5	1077.418	927.912	620.440	435.149	328.018	119.754	107.756	110.755	107.305
47.0	1104.656	943.187	624.047	431.924	323.804	119.112	107.704	110.322	106.559
47.5	1134.044	962.935	629.768	429.202	319.158	118.419	107.686	109.940	105.796
48.0	1163.258	983.932	636.322	426.619	314.563	117.760	107.582	109.420	105.034
48.5	1194.432	1002.969	641.679	424.174	309.691	117.136	107.548	108.952	104.080
49.0	1229.022	1022.162	646.777	422.250	304.403	116.442	107.426	108.310	103.161
49.5	1263.593	1042.153	651.718	421.556	299.167	115.748	107.270	107.652	102.190
50.0	1294.178	1064.917	656.677	421.192	293.619	115.124	107.027	106.975	101.185
50.5	1318.676	1089.815	662.346	421.521	287.655	114.448	106.802	106.161	100.179
51.0	1340.037	1115.198	668.917	421.227	281.569	113.824	106.490	105.311	99.069
51.5	1358.848	1141.742	676.390	420.620	275.154	113.200	106.057	104.496	98.029
52.0	1379.619	1168.529	684.452	420.377	268.704	112.558	105.675	103.577	96.937
52.5	1402.367	1193.236	693.295	420.394	262.133	111.899	105.242	102.589	95.758
53.0	1429.085	1215.862	702.761	420.447	255.562	111.189	104.756	101.566	94.648
53.5	1458.767	1236.286	712.124	419.857	249.060	110.478	104.184	100.560	93.521
54.0	1491.501	1257.282	721.174	418.765	242.680	109.732	103.629	99.555	92.394
54.5	1526.177	1279.111	729.288	417.603	236.317	109.004	103.040	98.497	91.233

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

CANDELA TABULATION - (Cont.)

55.0	1563.194	1304.841	738.131	416.268	229.885	108.206	102.398	97.405	90.140
55.5	1601.823	1332.564	746.661	414.742	223.782	107.409	101.705	96.313	88.944
56.0	1642.169	1362.593	755.642	413.199	217.523	106.577	101.063	95.238	87.886
56.5	1683.398	1393.212	765.230	412.003	211.350	105.727	100.318	94.059	86.638
57.0	1723.259	1426.051	775.182	410.893	205.403	104.808	99.468	92.914	85.372
57.5	1761.922	1457.380	785.914	409.472	199.560	103.907	98.636	91.770	84.176
58.0	1801.106	1489.352	796.542	408.015	193.787	102.901	97.752	90.591	82.928
58.5	1839.857	1521.392	807.205	406.593	188.117	101.913	96.919	89.377	81.749
59.0	1878.971	1553.311	817.435	404.998	182.552	100.838	95.948	88.198	80.622
59.5	1916.317	1585.473	827.959	402.762	177.108	99.746	95.030	87.019	79.495
60.0	1957.287	1617.739	838.136	400.074	171.906	98.636	94.041	85.754	78.264
60.5	1999.817	1649.624	847.828	396.884	166.930	97.509	92.966	84.488	77.102
61.0	2039.192	1683.017	857.798	393.399	161.989	96.330	91.891	83.222	75.854
61.5	2071.128	1715.647	867.923	389.966	157.394	95.030	90.782	81.905	74.640
62.0	2097.985	1748.381	878.464	386.603	152.869	93.781	89.620	80.604	73.357
62.5	2120.316	1781.948	890.740	383.534	148.396	92.377	88.372	79.269	71.970
63.0	2139.735	1815.029	903.379	380.673	144.096	91.025	87.175	77.900	70.652
63.5	2155.027	1846.705	917.007	378.280	139.883	89.655	85.910	76.513	69.265
64.0	2167.961	1878.832	931.293	376.217	135.722	88.164	84.627	75.091	67.809
64.5	2177.792	1906.920	946.447	374.379	131.613	86.690	83.326	73.669	66.405
65.0	2189.564	1933.516	961.600	372.559	127.538	85.216	81.974	72.195	64.965
65.5	2206.330	1956.611	977.620	370.530	123.464	83.656	80.570	70.652	63.526
66.0	2220.582	1976.081	992.687	368.485	119.546	82.043	79.113	69.161	62.018
66.5	2233.707	1991.512	1007.390	366.283	115.627	80.414	77.674	67.601	60.631
67.0	2248.219	2007.428	1021.590	363.907	111.639	78.680	76.166	66.006	59.175
67.5	2258.760	2022.408	1035.616	361.237	107.790	76.963	74.623	64.411	57.701
68.0	2267.793	2037.198	1048.897	358.515	104.115	75.160	73.062	62.798	56.244
68.5	2275.353	2050.357	1061.571	355.689	100.352	73.305	71.381	61.186	54.701
69.0	2281.005	2061.644	1073.725	352.932	96.885	71.433	69.751	59.487	53.210
69.5	2283.917	2070.729	1085.029	350.141	93.382	69.508	67.982	57.822	51.702
70.0	2285.599	2079.086	1096.351	347.072	89.932	67.584	66.231	56.140	50.159
70.5	2287.784	2086.074	1107.933	344.142	86.499	65.590	64.428	54.441	48.668
71.0	2290.454	2090.512	1119.480	341.125	83.032	63.561	62.573	52.725	47.177
71.5	2295.707	2096.355	1131.929	337.987	79.495	61.533	60.666	51.008	45.599
72.0	2303.163	2100.551	1143.337	334.935	76.148	59.504	58.776	49.309	44.039
72.5	2309.526	2104.937	1155.404	331.867	72.872	57.475	56.869	47.593	42.547
73.0	2316.929	2109.410	1167.714	328.642	69.664	55.395	54.892	45.842	40.970
73.5	2324.055	2112.115	1179.365	325.694	66.561	53.314	52.950	44.195	39.461
74.0	2332.689	2116.762	1191.589	322.591	63.440	51.268	50.974	42.513	37.901
74.5	2345.762	2122.553	1203.500	319.539	60.423	49.171	48.963	40.814	36.358
75.0	2356.408	2129.245	1215.030	316.696	57.493	47.125	47.021	39.132	34.728
75.5	2369.585	2136.614	1226.403	313.766	54.719	45.079	45.027	37.398	33.098
76.0	2385.171	2145.127	1237.222	310.818	51.962	42.964	43.068	35.682	31.486
76.5	2397.551	2154.455	1247.278	307.906	49.396	40.900	41.056	33.948	29.925
77.0	2406.254	2163.453	1257.560	305.045	46.830	38.872	39.115	32.266	28.382
77.5	2414.490	2173.405	1267.807	301.924	44.195	36.791	37.173	30.550	26.857
78.0	2424.442	2182.594	1278.227	298.751	41.577	34.728	35.248	28.902	25.487
78.5	2431.568	2192.130	1288.456	295.630	38.941	32.751	33.341	27.359	24.204
79.0	2437.619	2200.019	1297.143	292.284	36.375	30.740	31.451	25.938	22.886
79.5	2445.230	2207.509	1306.505	288.955	33.896	28.746	29.631	24.499	21.603
80.0	2447.710	2212.884	1314.949	285.661	31.451	26.701	27.897	23.233	20.355
80.5	2448.802	2218.432	1323.358	282.280	29.041	24.707	26.111	21.881	19.158
81.0	2449.530	2223.772	1331.923	278.864	26.753	22.851	24.447	20.632	18.014
81.5	2449.374	2227.014	1339.863	275.674	24.637	20.944	22.851	19.332	16.749
82.0	2448.628	2229.892	1347.856	272.519	22.661	19.141	21.395	17.980	15.518
82.5	2448.975	2231.574	1355.398	269.537	20.736	17.390	19.973	16.575	14.304

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES****CANDELA TABULATION - (Cont.)**

83.0	2450.796	2233.186	1362.802	266.606	18.829	15.743	18.534	15.119	13.125
83.5	2448.975	2235.770	1369.771	263.746	16.922	14.148	17.078	13.818	12.015
84.0	2444.641	2237.920	1377.331	261.180	15.153	12.674	15.570	12.518	11.010
84.5	2436.128	2239.619	1383.937	258.666	13.489	11.287	13.992	11.408	10.056
85.0	2428.308	2237.989	1389.571	256.325	11.911	9.987	12.449	10.143	9.120
85.5	2418.547	2234.261	1394.547	254.158	10.472	8.808	10.958	9.085	8.218
86.0	2407.832	2229.095	1399.298	252.095	9.102	7.819	9.536	8.080	7.490
86.5	2397.013	2223.633	1403.078	250.239	7.837	6.779	8.097	7.282	6.883
87.0	2390.217	2218.050	1405.956	248.471	6.744	5.739	6.866	6.588	6.294
87.5	2386.871	2213.178	1407.603	247.067	5.704	4.699	5.808	5.860	5.670
88.0	2383.195	2207.405	1408.713	245.766	4.768	3.658	4.820	5.132	5.115
88.5	2379.953	2203.192	1408.591	244.743	4.040	2.791	3.936	4.543	4.612
89.0	2378.514	2200.868	1407.967	243.911	3.450	2.167	3.121	3.884	4.074
89.5	2375.375	2200.920	1406.771	243.304	2.999	1.474	2.237	3.017	3.294
90.0	2373.486	2201.995	1405.280	243.235	2.809	0.798	1.422	2.150	2.445
90.5	2373.780	2205.272	1402.488	243.443	2.913	0.659	1.127	1.734	2.063
91.0	2373.763	2209.087	1399.662	243.963	3.312	1.040	1.300	1.682	1.838
91.5	2373.260	2213.577	1397.113	244.899	3.797	1.699	1.925	2.098	2.185
92.0	2373.798	2217.288	1393.628	246.113	4.421	2.410	2.947	2.861	2.861
92.5	2376.849	2222.160	1389.641	247.673	5.288	3.294	3.918	3.918	3.745
93.0	2384.166	2226.962	1386.919	249.320	6.276	4.092	4.907	4.941	4.751
93.5	2393.043	2230.516	1382.810	251.314	7.403	4.993	6.311	5.930	5.583
94.0	2403.480	2234.626	1378.388	253.430	8.652	6.172	7.750	7.109	6.571
94.5	2412.600	2239.966	1374.158	255.562	10.056	7.490	8.825	8.617	7.750
95.0	2421.997	2244.439	1369.841	257.816	11.599	8.912	10.004	10.073	9.311
95.5	2429.487	2248.375	1365.246	260.382	13.160	10.489	11.339	11.027	10.524
96.0	2435.781	2250.316	1361.380	262.861	14.824	12.102	12.709	12.085	11.356
96.5	2439.041	2249.276	1357.115	265.514	16.610	13.784	14.339	13.281	12.327
97.0	2442.664	2247.872	1353.231	268.236	18.638	15.622	16.020	14.633	13.541
97.5	2444.138	2243.000	1349.052	270.958	20.494	17.442	17.806	16.072	14.737
98.0	2441.988	2235.024	1344.510	273.871	22.418	19.384	19.644	17.546	16.020
98.5	2442.248	2224.223	1338.459	276.680	24.447	21.412	21.516	19.193	17.442
99.0	2439.058	2213.872	1332.911	279.489	26.666	23.424	23.406	20.771	18.864
99.5	2438.451	2204.111	1327.848	282.263	29.024	25.504	25.279	22.435	20.268
100.0	2435.434	2192.702	1322.508	285.349	31.486	27.741	27.290	24.100	21.794
100.5	2432.764	2183.582	1316.630	287.932	33.878	29.856	29.267	25.816	23.250
101.0	2428.100	2175.815	1310.649	290.793	36.323	32.058	31.260	27.533	24.828
101.5	2418.928	2166.817	1304.962	293.636	38.958	34.260	33.324	29.249	26.458
102.0	2411.178	2158.477	1297.195	296.341	41.490	36.514	35.352	31.000	27.966
102.5	2402.163	2149.600	1289.670	299.046	44.229	38.768	37.311	32.717	29.683
103.0	2393.459	2141.989	1281.729	301.751	47.038	41.004	39.375	34.503	31.295
103.5	2386.160	2132.695	1273.650	304.438	49.691	43.258	41.438	36.271	32.908
104.0	2376.866	2123.385	1265.501	307.264	52.378	45.530	43.449	38.005	34.589
104.5	2367.643	2114.907	1257.369	310.073	55.256	47.818	45.495	39.843	36.219
105.0	2359.234	2107.607	1249.134	312.708	58.152	50.037	47.471	41.594	37.866
105.5	2348.814	2101.487	1239.944	315.534	61.168	52.239	49.535	43.310	39.531
106.0	2340.179	2096.528	1229.524	318.447	64.359	54.476	51.563	45.131	41.143
106.5	2329.464	2092.974	1219.000	321.221	67.497	56.626	53.574	46.917	42.825
107.0	2317.258	2090.998	1207.834	323.995	70.756	58.810	55.551	48.685	44.420
107.5	2308.104	2090.737	1195.212	326.943	74.155	60.926	57.562	50.506	46.102
108.0	2299.504	2091.570	1182.452	329.647	77.536	63.024	59.504	52.222	47.784
108.5	2293.748	2094.084	1169.067	332.369	81.090	65.122	61.411	53.939	49.413
109.0	2287.836	2096.840	1154.260	335.040	84.835	67.150	63.388	55.620	51.043
109.5	2283.449	2099.198	1139.453	337.796	88.615	69.161	65.278	57.302	52.673
110.0	2280.172	2102.181	1124.283	340.068	92.446	71.086	67.098	58.984	54.233
110.5	2280.155	2104.868	1108.089	342.564	96.295	73.062	68.936	60.666	55.828

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

CANDELA TABULATION - (Cont.)

111.0	2279.444	2107.087	1092.936	344.697	100.214	74.970	70.687	62.278	57.441
111.5	2281.178	2108.648	1076.915	346.916	104.305	76.790	72.421	63.908	58.949
112.0	2283.467	2106.862	1060.652	349.066	108.605	78.645	74.103	65.572	60.596
112.5	2284.750	2103.308	1045.655	351.060	112.853	80.431	75.732	67.185	62.139
113.0	2287.368	2094.621	1031.108	353.036	117.274	82.199	77.293	68.832	63.665
113.5	2291.806	2081.080	1016.076	355.030	121.869	83.933	78.923	70.410	65.122
114.0	2297.406	2062.373	1002.362	357.007	126.446	85.598	80.396	71.987	66.699
114.5	2301.238	2039.816	989.012	359.122	131.023	87.245	81.905	73.513	68.190
115.0	2299.400	2011.676	974.985	361.116	135.739	88.857	83.361	75.056	69.716
115.5	2294.962	1980.208	961.670	362.971	140.420	90.400	84.800	76.547	71.259
116.0	2284.594	1944.301	948.025	364.965	145.102	91.891	86.170	77.969	72.629
116.5	2271.954	1906.070	934.397	367.184	149.974	93.365	87.540	79.460	74.051
117.0	2251.062	1867.909	920.804	369.005	154.759	94.856	88.857	80.864	75.472
117.5	2223.633	1829.853	907.436	371.189	159.666	96.226	90.140	82.286	76.790
118.0	2188.957	1791.692	894.693	373.773	164.624	97.613	91.337	83.691	78.125
118.5	2150.588	1755.230	881.325	376.460	169.479	98.948	92.464	85.008	79.356
119.0	2111.075	1718.248	868.044	379.199	174.420	100.231	93.539	86.465	80.587
119.5	2069.464	1680.174	854.989	381.852	179.431	101.497	94.613	87.800	81.783
120.0	2028.459	1644.821	842.471	384.175	184.320	102.658	95.636	89.169	83.014
120.5	1985.947	1612.105	830.317	386.429	189.262	103.837	96.677	90.522	84.176
121.0	1940.452	1579.960	819.203	388.267	194.255	104.912	97.613	91.857	85.407
121.5	1893.622	1548.266	808.818	390.088	199.231	105.953	98.532	93.192	86.707
122.0	1848.370	1518.878	799.941	391.873	204.138	106.958	99.399	94.509	88.008
122.5	1803.863	1489.768	790.665	393.642	209.218	107.964	100.318	95.792	89.325
123.0	1761.697	1459.981	781.129	395.549	214.298	108.796	101.150	97.127	90.660
123.5	1721.681	1429.223	771.974	397.335	219.412	109.732	101.999	98.410	92.082
124.0	1684.942	1398.674	762.040	398.791	224.683	110.616	102.693	99.641	93.504
124.5	1650.422	1368.610	751.862	399.884	230.023	111.397	103.386	100.872	94.856
125.0	1616.404	1336.621	741.529	400.872	235.519	112.229	104.080	101.999	96.330
125.5	1583.220	1305.066	730.814	401.617	241.085	113.096	104.652	103.126	97.734
126.0	1550.468	1273.528	721.035	402.536	246.841	113.893	105.155	104.288	99.104
126.5	1518.133	1242.667	711.135	403.351	252.597	114.691	105.606	105.311	100.474
127.0	1484.549	1212.776	701.617	404.548	258.666	115.540	106.057	106.334	101.757
127.5	1451.815	1185.590	692.532	406.351	264.630	116.321	106.403	107.357	102.970
128.0	1418.630	1159.964	684.105	408.813	270.733	117.136	106.715	108.328	104.219
128.5	1384.387	1136.489	676.702	411.396	276.767	117.933	107.010	109.281	105.328
129.0	1350.873	1115.960	670.911	414.031	282.661	118.713	107.270	110.131	106.455
129.5	1320.323	1097.964	665.432	416.528	288.418	119.563	107.496	110.946	107.565
130.0	1288.803	1080.660	659.503	418.973	294.347	120.412	107.617	111.674	108.605
130.5	1258.739	1065.264	653.868	422.232	300.173	121.210	107.721	112.333	109.559
131.0	1229.247	1049.799	647.886	425.613	306.120	122.129	107.790	112.905	110.634
131.5	1201.437	1032.114	641.593	429.185	311.876	122.926	107.756	113.443	111.587
132.0	1176.713	1014.152	634.658	432.427	317.650	123.793	107.704	113.911	112.454
132.5	1155.110	995.184	627.254	435.877	323.336	124.678	107.617	114.327	113.269
133.0	1136.107	973.373	619.955	438.461	329.179	125.614	107.496	114.726	113.893
133.5	1120.330	950.261	613.627	440.940	334.988	126.602	107.357	115.124	114.431
134.0	1106.060	927.410	607.281	443.350	340.778	127.590	107.149	115.367	114.934
134.5	1088.670	905.963	601.213	445.500	346.535	128.579	106.993	115.592	115.280
135.0	1069.703	887.862	595.976	447.667	352.221	129.515	106.802	115.801	115.610
135.5	1050.891	871.321	591.694	449.661	357.579	130.590	106.594	115.957	115.922
136.0	1026.375	855.388	588.486	452.348	362.884	131.647	106.403	116.061	116.113
136.5	999.328	839.246	586.441	455.053	367.739	132.722	106.230	116.165	116.407
137.0	972.592	823.243	584.932	458.139	372.264	133.815	106.091	116.234	116.581
137.5	945.146	804.188	582.644	461.087	376.685	135.063	105.831	116.234	116.650
138.0	922.936	785.637	580.303	464.173	380.673	136.190	105.571	116.217	116.685
138.5	903.449	767.952	578.933	467.935	384.383	137.456	105.276	116.182	116.685

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

CANDELA TABULATION - (Cont.)

139.0	884.307	752.400	577.668	472.721	387.695	138.756	104.947	116.078	116.546
139.5	866.120	740.627	575.812	477.315	390.955	140.022	104.600	115.957	116.442
140.0	843.078	731.525	574.841	481.806	394.006	141.357	104.236	115.801	116.303
140.5	816.880	724.416	575.639	486.522	396.763	142.761	103.855	115.592	116.165
141.0	795.398	718.712	579.297	490.977	399.259	144.148	103.491	115.315	116.078
141.5	776.552	713.060	583.042	495.520	401.548	145.501	103.144	114.951	115.922
142.0	761.693	705.969	586.059	501.311	403.785	146.957	102.814	114.517	115.783
142.5	752.400	694.110	589.839	506.720	406.056	148.500	102.450	114.067	115.627
143.0	745.118	681.782	591.503	512.234	408.015	150.008	102.208	113.616	115.315
143.5	741.598	668.813	590.966	517.834	409.732	151.621	101.913	113.130	114.951
144.0	734.819	657.249	588.365	522.723	411.275	153.233	101.687	112.662	114.552
144.5	724.971	649.135	584.984	527.699	412.800	154.984	101.583	112.246	114.101
145.0	708.621	646.447	582.071	533.716	414.031	156.718	101.445	111.865	113.547
145.5	691.682	645.615	579.159	540.287	415.262	158.417	101.341	111.449	113.026
146.0	676.615	643.639	576.818	547.898	416.355	160.255	101.271	111.137	112.489
146.5	663.074	640.743	575.830	556.203	417.447	162.110	101.237	110.720	111.934
147.0	655.793	635.767	576.124	565.045	418.123	163.844	101.150	110.304	111.483
147.5	654.180	629.682	577.633	574.061	419.111	165.491	101.098	109.940	111.154
148.0	655.324	631.017	579.627	583.112	419.961	167.364	101.133	109.489	110.703
148.5	653.122	637.484	581.915	592.249	420.568	169.202	101.150	108.969	110.304
149.0	650.262	643.864	583.718	600.207	421.036	171.109	101.254	108.397	109.906
149.5	645.164	649.655	584.152	607.211	421.660	173.172	101.341	107.738	109.489
150.0	644.176	651.701	582.522	612.413	422.146	175.235	101.549	107.062	109.056
150.5	651.267	649.950	581.395	615.863	422.544	177.333	101.826	106.351	108.640
151.0	657.110	643.985	581.256	618.100	422.943	179.552	102.121	105.727	107.981
151.5	661.150	638.767	582.158	619.556	423.013	181.910	102.572	105.224	107.444
152.0	663.439	630.965	584.464	619.990	422.700	184.407	103.074	104.722	106.629
152.5	661.531	621.949	590.567	620.163	422.336	186.800	103.699	104.323	105.953
153.0	655.532	618.134	598.109	620.458	421.990	189.400	104.444	103.907	105.294
153.5	646.846	615.274	605.460	620.770	421.539	192.122	105.328	103.473	104.739
154.0	636.530	611.546	612.950	620.752	420.759	195.000	106.317	103.074	104.236
154.5	627.011	609.465	621.203	620.371	420.273	197.861	107.426	102.658	103.768
155.0	623.665	611.667	630.999	619.747	419.770	200.687	108.623	102.190	103.300
155.5	618.845	613.488	640.171	619.487	419.164	203.600	110.096	101.861	102.780
156.0	614.285	611.546	648.407	619.400	418.730	206.461	111.657	101.566	102.398
156.5	614.580	612.083	657.665	619.452	418.314	209.495	113.339	101.410	101.774
157.0	619.435	616.123	666.455	620.232	417.742	212.564	115.315	101.323	101.289
157.5	618.759	620.458	675.679	621.134	417.135	215.633	117.396	101.393	100.820
158.0	617.163	628.104	683.811	622.018	416.632	218.771	119.719	101.583	100.491
158.5	622.521	640.466	693.988	622.486	416.199	221.840	122.164	101.947	100.318
159.0	627.462	653.244	702.796	622.105	415.765	224.874	124.747	102.485	100.162
159.5	636.339	660.821	710.633	621.030	415.228	228.081	127.434	103.265	100.266
160.0	650.383	670.062	716.198	619.695	414.950	231.289	130.503	104.201	100.508
160.5	663.959	681.002	719.180	617.909	414.482	234.479	133.607	105.328	100.994
161.0	671.709	689.896	719.804	615.950	414.083	237.583	136.832	106.715	101.670
161.5	683.152	699.744	719.267	613.176	413.789	240.790	140.420	108.415	102.658
162.0	693.451	709.939	716.476	610.072	413.633	244.067	144.044	110.391	103.768
162.5	702.640	718.816	712.297	606.275	413.581	247.327	148.032	112.680	105.224
163.0	712.488	727.156	706.402	602.773	413.373	250.881	152.158	115.384	107.045
163.5	722.509	732.045	699.727	599.149	413.026	254.383	156.666	118.297	109.143
164.0	730.450	737.264	693.641	594.849	413.009	257.747	161.399	121.539	111.639
164.5	736.189	737.316	687.746	589.873	412.575	261.405	166.566	125.163	114.691
165.0	739.899	735.755	682.094	585.019	412.350	264.786	171.837	129.047	117.968
165.5	742.274	733.137	676.841	580.442	412.090	268.375	177.472	133.191	121.678
166.0	738.477	725.838	671.570	576.176	411.743	272.155	183.245	137.698	125.770
166.5	735.807	720.983	666.213	572.015	411.413	275.865	189.019	142.414	130.156

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

CANDELA TABULATION - (Cont.)

167.0	728.786	713.632	662.693	567.906	410.945	279.471	195.209	147.650	134.907
167.5	723.307	706.974	658.757	563.121	410.633	283.424	201.346	153.372	140.160
168.0	715.661	697.785	655.116	558.318	410.529	287.048	207.831	159.804	145.847
168.5	708.413	689.047	649.100	552.891	409.974	290.533	214.454	166.896	152.002
169.0	697.959	679.598	642.962	546.979	409.610	294.191	221.493	174.368	159.163
169.5	687.746	670.686	634.831	540.772	409.680	297.884	227.960	181.910	167.034
170.0	677.742	664.132	625.070	534.097	409.437	302.080	234.826	190.059	175.079
170.5	669.073	658.428	615.447	526.832	409.038	306.449	241.709	198.433	183.575
171.0	662.329	650.903	606.102	519.689	408.726	311.026	248.367	207.102	192.486
171.5	654.926	642.633	595.890	512.442	408.171	315.829	255.146	216.170	201.624
172.0	645.008	630.965	585.938	505.247	407.859	320.840	262.463	225.359	211.420
172.5	633.617	617.649	578.153	498.311	407.478	325.798	269.883	234.739	221.424
173.0	618.863	605.876	569.969	490.977	406.975	330.428	277.685	243.842	231.705
173.5	605.772	592.544	559.081	483.644	406.767	335.490	285.210	253.274	241.310
174.0	591.850	580.494	547.603	475.945	406.576	340.917	292.128	262.844	251.436
174.5	578.916	570.611	535.363	468.577	406.403	346.379	299.566	273.056	261.665
175.0	568.132	557.399	522.047	461.676	406.299	351.875	307.958	283.320	273.230
175.5	552.909	542.437	508.905	455.296	406.264	357.267	318.118	292.423	283.736
176.0	537.062	526.000	495.537	449.245	406.125	362.590	327.602	302.912	293.636
176.5	518.736	508.610	482.239	443.142	405.831	368.016	337.502	315.898	306.085
177.0	499.907	491.775	469.062	437.074	405.657	373.183	347.852	328.867	320.320
177.5	481.702	475.027	457.428	431.005	405.744	378.194	358.186	342.547	334.138
178.0	464.138	459.145	446.610	424.798	406.108	383.621	368.762	356.296	349.499
178.5	448.777	445.223	434.941	419.059	406.108	388.891	378.333	369.664	364.237
179.0	432.756	430.034	423.706	413.615	406.004	393.902	388.527	382.338	377.795
179.5	417.672	416.511	413.893	408.969	405.883	398.947	398.028	395.757	391.943
180.0	405.345	405.345	405.345	405.345	405.345	405.345	405.345	405.345	405.345

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 155SW-48LED59DMV30.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	143.07	N.A.	2.20
0-30	317.42	N.A.	4.90
0-40	548.14	N.A.	8.40
0-60	1292.21	N.A.	19.80
0-80	2547.62	N.A.	39.00
0-90	3246.54	N.A.	49.60
10-90	3212.66	N.A.	49.10
20-40	405.07	N.A.	6.20
20-50	715.88	N.A.	10.90
40-70	1330.63	N.A.	20.30
60-80	1255.41	N.A.	19.20
70-80	668.85	N.A.	10.20
80-90	698.92	N.A.	10.70
90-110	1368.06	N.A.	20.90
90-120	1968.68	N.A.	30.10
90-130	2407.46	N.A.	36.80
90-150	2956.05	N.A.	45.20
90-180	3293.81	N.A.	50.40
110-180	1925.75	N.A.	29.40
0-180	6540.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.88
10-20	109.19
20-30	174.35
30-40	230.72
40-50	310.81
50-60	433.26
60-70	586.56
70-80	668.85
80-90	698.92
90-100	697.29
100-110	670.76
110-120	600.63
120-130	438.77
130-140	314.25
140-150	234.34
150-160	178.37
160-170	119.55
170-180	39.83

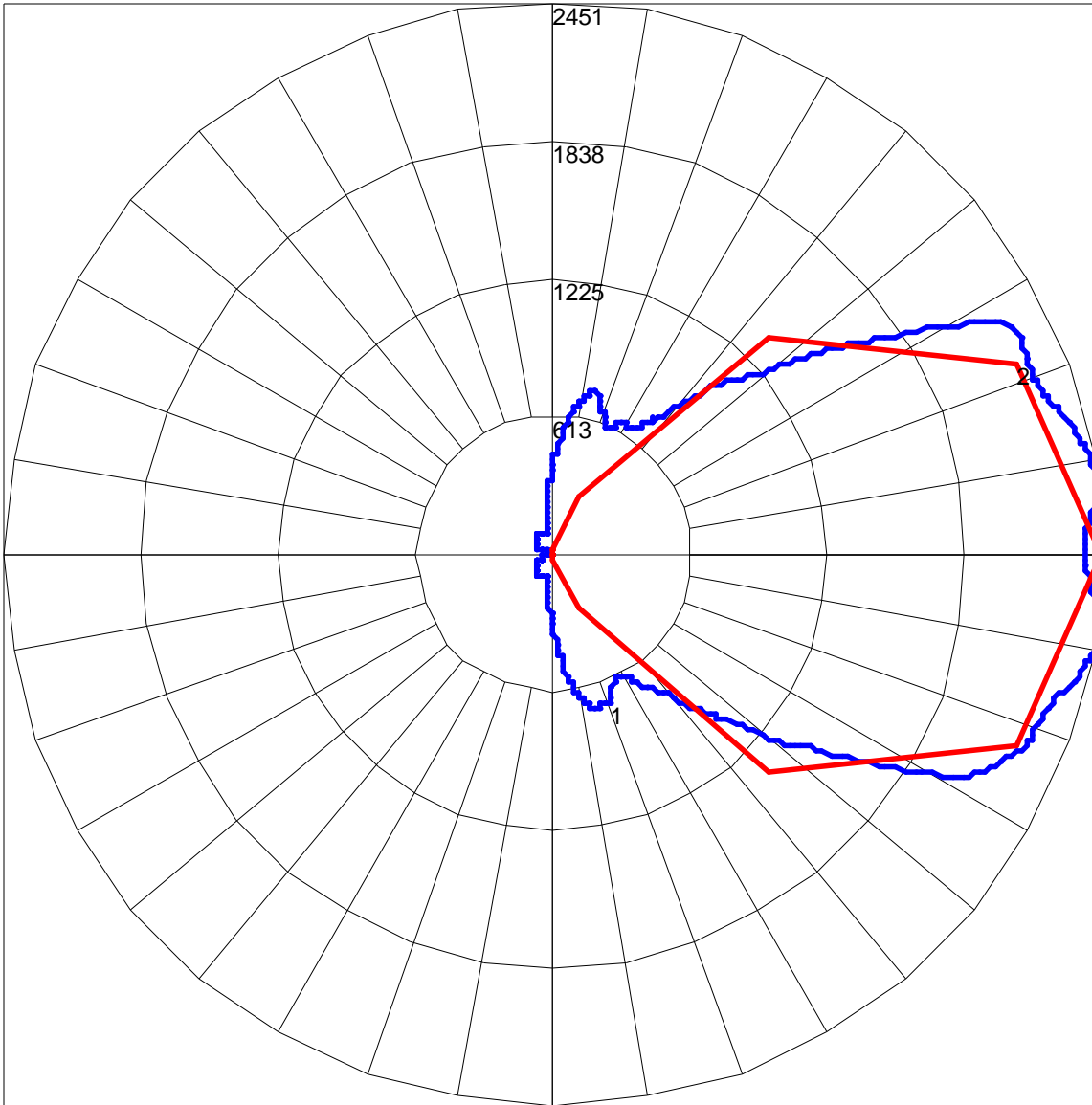
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	86	80	74	84	78	73	68	65	61	57	52	49	46	41	38	36	31
2	82	72	64	57	74	66	58	52	54	48	43	43	39	35	33	30	27	22
3	74	62	52	45	67	56	48	41	46	39	34	36	31	27	28	24	21	16
4	67	54	44	37	60	49	40	34	40	33	28	32	26	22	24	20	17	13
5	61	47	38	31	55	43	34	28	35	28	23	28	23	18	21	17	14	10
6	56	42	33	26	50	38	30	24	31	25	20	25	20	16	19	15	12	8
7	51	37	29	22	47	34	26	20	28	22	17	22	17	13	17	13	10	7
8	48	34	25	19	43	31	23	18	26	19	15	20	15	12	16	12	9	6
9	44	31	22	17	40	28	21	16	23	17	13	19	14	10	14	10	8	5
10	41	28	20	15	37	26	19	14	21	16	11	17	12	9	13	10	7	5

POLAR GRAPH



Maximum Candela = 2450.796 Located At Horizontal Angle = 0, Vertical Angle = 83
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (83) (Through Max. Cd.)