



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 155SW-48LED48DMV30.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-48LED48DMV30-10  
 [LUMINAIRE] Catalog Number: 155SW-48LED30DMV30  
 [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, 0.3932A, 46.95W, 0.995PF, 8.3%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 created by LightLab/LSA Report program version 3.808a.  
 [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	5328
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	46.95
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

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9657	6910	7120
55	14581	8115	5605
65	20606	10892	3862
75	23083	14652	2393
85	25614	18516	833

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**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>
<b>0.0</b>	269.802	269.802	269.802	269.802	269.802	269.802	269.802	269.802	269.802
<b>0.5</b>	281.864	282.896	280.169	274.096	270.861	263.940	260.889	258.431	256.439
<b>1.0</b>	293.320	293.970	289.181	279.350	270.974	259.392	253.162	249.010	246.510
<b>1.5</b>	305.849	304.874	297.035	283.983	271.073	255.168	246.382	240.563	237.625
<b>2.0</b>	320.157	318.067	305.849	288.644	270.847	251.157	240.182	232.822	229.235
<b>2.5</b>	333.633	331.132	315.877	293.066	270.988	247.512	234.094	225.421	221.565
<b>3.0</b>	344.523	342.461	326.401	297.430	271.341	243.953	228.260	218.655	214.771
<b>3.5</b>	354.975	351.684	335.568	302.049	271.497	240.732	223.147	212.680	207.567
<b>4.0</b>	363.606	360.569	343.916	307.148	271.581	237.667	218.203	205.448	199.770
<b>4.5</b>	373.818	368.761	350.978	312.629	271.751	234.489	213.528	197.934	191.648
<b>5.0</b>	387.816	379.242	357.574	318.250	271.920	231.339	208.457	190.673	183.950
<b>5.5</b>	406.673	393.523	363.874	323.745	272.217	228.204	203.047	183.837	177.636
<b>6.0</b>	423.976	411.320	370.923	328.858	272.330	225.322	197.439	178.201	171.859
<b>6.5</b>	437.988	427.112	379.228	333.957	272.669	222.568	192.015	172.932	165.842
<b>7.0</b>	451.096	440.206	389.568	338.661	272.810	219.969	186.676	167.551	159.471
<b>7.5</b>	462.608	452.226	402.760	342.673	273.262	217.454	182.213	161.816	152.748
<b>8.0</b>	473.272	462.933	416.391	346.458	273.545	214.997	178.201	155.573	146.180
<b>8.5</b>	485.561	473.089	428.143	350.145	273.714	212.482	174.133	149.541	140.049
<b>9.0</b>	498.344	483.372	438.398	353.789	274.138	210.067	169.966	143.778	134.668
<b>9.5</b>	512.314	496.141	447.706	357.560	274.519	207.454	165.828	138.637	129.201
<b>10.0</b>	523.006	508.415	455.997	361.275	274.675	204.657	161.392	133.439	123.989
<b>10.5</b>	530.620	520.224	463.681	365.160	275.169	201.818	156.943	128.665	118.947
<b>11.0</b>	536.538	527.625	471.351	369.736	275.438	199.035	152.338	124.003	114.172
<b>11.5</b>	541.270	534.321	479.459	374.228	275.748	196.281	148.030	119.257	109.412
<b>12.0</b>	543.262	538.897	488.541	379.398	276.059	193.597	144.019	114.978	105.175
<b>12.5</b>	545.931	542.146	497.610	385.514	276.596	191.097	140.134	110.698	101.418
<b>13.0</b>	550.917	543.657	507.130	392.689	276.737	188.611	136.349	106.729	97.929
<b>13.5</b>	559.421	546.058	515.365	399.935	277.175	186.295	132.620	103.211	94.962
<b>14.0</b>	570.495	551.172	521.114	407.068	277.853	183.992	129.088	100.005	92.378
<b>14.5</b>	577.981	559.576	525.620	414.131	278.319	181.506	125.487	97.194	89.990
<b>15.0</b>	584.591	569.308	529.151	420.247	278.644	179.402	122.082	94.652	88.013
<b>15.5</b>	587.897	576.145	531.270	425.756	279.181	177.212	118.735	92.378	86.290
<b>16.0</b>	584.478	582.656	532.244	430.926	279.675	175.065	115.472	90.315	84.920
<b>16.5</b>	579.732	586.202	533.275	435.996	280.282	173.173	112.393	88.606	83.959
<b>17.0</b>	574.026	584.182	535.027	440.912	280.650	171.011	109.426	87.151	83.309
<b>17.5</b>	568.969	579.266	538.374	445.700	281.073	168.963	106.672	86.021	82.886
<b>18.0</b>	565.989	573.489	544.095	449.401	281.723	166.760	104.172	85.230	82.518
<b>18.5</b>	568.178	568.390	550.522	453.653	282.288	164.698	101.771	84.694	82.208
<b>19.0</b>	573.984	563.234	556.257	458.074	282.853	162.508	99.539	84.256	82.038
<b>19.5</b>	576.314	562.458	560.183	461.916	283.503	160.658	97.547	83.903	81.996
<b>20.0</b>	573.715	565.268	563.390	465.828	284.237	158.694	95.683	83.677	81.883
<b>20.5</b>	569.280	568.814	564.831	470.278	284.732	156.759	94.002	83.436	81.982
<b>21.0</b>	568.545	569.732	564.266	474.501	285.452	154.739	92.462	83.281	82.151
<b>21.5</b>	565.706	567.218	560.409	478.386	286.003	153.044	91.064	83.168	82.292
<b>22.0</b>	558.036	562.514	556.525	482.058	286.568	151.208	89.793	83.140	82.490
<b>22.5</b>	546.171	560.212	552.499	484.205	286.992	149.443	88.733	83.196	82.688
<b>23.0</b>	533.798	556.483	549.321	485.434	287.387	147.719	87.900	83.309	82.857
<b>23.5</b>	526.001	549.420	545.310	486.267	288.023	146.067	87.236	83.451	83.027
<b>24.0</b>	524.377	541.553	541.072	486.705	288.531	144.471	86.685	83.634	83.253
<b>24.5</b>	523.501	530.874	538.332	486.917	288.955	142.931	86.247	83.775	83.564
<b>25.0</b>	521.001	523.247	536.496	486.663	289.506	141.462	85.852	83.959	83.860
<b>25.5</b>	514.630	519.475	535.041	485.957	289.930	139.936	85.513	84.157	84.312
<b>26.0</b>	509.291	517.653	533.643	485.999	290.467	138.453	85.244	84.383	84.679
<b>26.5</b>	502.455	516.099	530.846	486.705	291.074	136.857	84.920	84.708	85.131

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**CANDELA TABULATION - (Cont.)**

27.0	500.435	511.904	526.990	487.793	291.653	135.431	84.679	85.018	85.696
27.5	503.924	505.364	521.043	488.866	292.105	133.849	84.439	85.386	86.177
28.0	508.486	500.703	514.913	489.361	292.628	132.309	84.242	85.809	86.671
28.5	511.297	497.878	510.619	489.163	293.207	130.783	84.086	86.247	87.307
29.0	514.503	496.508	507.992	488.443	293.673	129.230	84.001	86.728	87.829
29.5	516.509	498.923	504.644	486.818	294.153	127.718	83.874	87.222	88.465
30.0	519.433	503.330	499.912	484.827	294.520	126.362	83.804	87.702	89.072
30.5	523.840	507.130	495.802	481.931	294.718	124.964	83.705	88.182	89.581
31.0	523.331	511.311	490.914	479.007	294.944	123.580	83.677	88.705	90.075
31.5	523.360	514.870	485.490	475.815	294.874	122.294	83.634	89.284	90.598
32.0	529.306	516.961	479.035	472.156	295.029	121.136	83.648	89.807	91.007
32.5	540.875	518.486	472.213	468.385	295.297	119.907	83.648	90.329	91.375
33.0	553.135	517.300	466.718	465.701	295.354	118.678	83.691	90.781	91.671
33.5	564.576	518.331	462.071	463.455	295.552	117.506	83.790	91.177	92.010
34.0	574.506	524.574	458.724	460.984	295.636	116.475	83.931	91.516	92.279
34.5	581.625	533.402	458.116	457.509	295.820	115.401	84.016	91.827	92.519
35.0	583.998	545.140	457.029	453.229	295.961	114.314	84.227	92.095	92.773
35.5	582.642	555.861	456.506	448.017	296.258	113.268	84.425	92.335	93.084
36.0	590.905	564.675	456.859	442.353	296.639	112.167	84.609	92.561	93.282
36.5	610.666	571.724	459.204	436.505	296.710	111.164	84.807	92.773	93.267
37.0	625.017	574.986	463.992	430.050	296.667	110.260	85.004	92.943	93.239
37.5	631.698	574.323	469.331	423.397	296.738	109.313	85.216	93.197	93.098
38.0	637.179	576.823	473.004	416.758	296.710	108.424	85.470	93.423	92.957
38.5	642.857	585.467	475.998	410.006	296.413	107.562	85.668	93.621	92.815
39.0	651.035	597.502	476.620	404.145	296.032	106.714	85.922	93.748	92.561
39.5	656.064	608.590	476.973	399.399	295.410	105.966	86.120	93.818	92.293
40.0	667.745	614.565	476.818	395.783	294.775	105.175	86.346	93.734	91.996
40.5	686.235	617.418	476.592	392.054	293.955	104.483	86.544	93.635	91.728
41.0	709.216	621.966	478.258	388.664	293.094	103.833	86.784	93.423	91.361
41.5	730.263	629.509	483.315	385.146	291.780	103.211	87.052	93.225	90.965
42.0	744.840	637.716	491.381	382.110	290.368	102.604	87.208	92.971	90.612
42.5	757.778	647.448	501.113	379.143	288.673	101.968	87.406	92.787	90.245
43.0	769.996	661.785	509.362	376.078	286.879	101.389	87.575	92.519	89.976
43.5	782.977	677.986	514.574	372.829	284.689	100.824	87.674	92.208	89.764
44.0	797.611	693.382	516.650	369.948	282.444	100.245	87.787	91.897	89.482
44.5	813.360	707.281	514.630	367.194	279.788	99.723	87.829	91.530	89.185
45.0	825.296	719.302	511.593	364.284	277.034	99.186	87.843	91.163	88.818
45.5	839.435	732.438	508.020	361.077	274.039	98.621	87.815	90.796	88.408
46.0	856.554	745.320	505.011	357.687	270.762	98.070	87.773	90.457	87.914
46.5	877.756	755.956	505.463	354.509	267.231	97.561	87.787	90.231	87.420
47.0	899.946	768.400	508.401	351.882	263.799	97.039	87.745	89.877	86.812
47.5	923.888	784.488	513.062	349.664	260.013	96.474	87.730	89.567	86.191
48.0	947.689	801.594	518.402	347.560	256.270	95.937	87.646	89.143	85.569
48.5	973.085	817.103	522.766	345.568	252.301	95.429	87.617	88.762	84.792
49.0	1001.265	832.739	526.919	344.000	247.993	94.864	87.519	88.239	84.044
49.5	1029.430	849.026	530.945	343.435	243.727	94.299	87.391	87.702	83.253
50.0	1054.347	867.572	534.984	343.139	239.207	93.790	87.194	87.151	82.434
50.5	1074.305	887.855	539.603	343.407	234.348	93.239	87.010	86.487	81.614
51.0	1091.707	908.534	544.957	343.167	229.390	92.731	86.756	85.795	80.710
51.5	1107.033	930.160	551.045	342.673	224.164	92.222	86.403	85.131	79.863
52.0	1123.955	951.983	557.613	342.475	218.909	91.700	86.092	84.383	78.973
52.5	1142.487	972.111	564.816	342.489	213.556	91.163	85.739	83.578	78.012
53.0	1164.253	990.544	572.529	342.531	208.203	90.584	85.343	82.744	77.108
53.5	1188.435	1007.183	580.156	342.051	202.906	90.005	84.877	81.925	76.190
54.0	1215.103	1024.289	587.529	341.161	197.708	89.397	84.425	81.106	75.272
54.5	1243.353	1042.072	594.140	340.215	192.524	88.804	83.945	80.244	74.326

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55.0	1273.510	1063.033	601.344	339.127	187.283	88.154	83.422	79.354	73.436
55.5	1304.981	1085.619	608.293	337.884	182.311	87.504	82.857	78.464	72.461
56.0	1337.849	1110.084	615.610	336.627	177.212	86.826	82.335	77.589	71.600
56.5	1371.439	1135.029	623.421	335.652	172.184	86.134	81.727	76.628	70.583
57.0	1403.912	1161.781	631.529	334.748	167.339	85.386	81.035	75.696	69.552
57.5	1435.411	1187.305	640.272	333.590	162.579	84.651	80.357	74.764	68.577
58.0	1467.333	1213.352	648.931	332.404	157.875	83.832	79.637	73.803	67.560
58.5	1498.903	1239.455	657.618	331.245	153.256	83.027	78.959	72.814	66.599
59.0	1530.769	1265.459	665.951	329.946	148.722	82.151	78.168	71.854	65.681
59.5	1561.194	1291.661	674.525	328.124	144.287	81.261	77.419	70.893	64.763
60.0	1594.571	1317.947	682.817	325.934	140.049	80.357	76.614	69.862	63.760
60.5	1629.220	1343.923	690.713	323.335	135.996	79.439	75.738	68.831	62.814
61.0	1661.298	1371.128	698.834	320.496	131.970	78.479	74.863	67.800	61.797
61.5	1687.316	1397.711	707.083	317.700	128.227	77.419	73.959	66.727	60.808
62.0	1709.196	1424.379	715.671	314.959	124.540	76.402	73.012	65.667	59.763
62.5	1727.389	1451.725	725.672	312.459	120.896	75.258	71.995	64.580	58.633
63.0	1743.209	1478.676	735.969	310.129	117.393	74.156	71.021	63.464	57.559
63.5	1755.667	1504.482	747.071	308.179	113.961	73.040	69.989	62.334	56.429
64.0	1766.204	1530.656	758.710	306.498	110.571	71.826	68.944	61.175	55.243
64.5	1774.213	1553.538	771.056	305.001	107.223	70.625	67.885	60.017	54.099
65.0	1783.804	1575.206	783.401	303.518	103.904	69.424	66.783	58.817	52.926
65.5	1797.463	1594.020	796.452	301.865	100.584	68.153	65.639	57.559	51.754
66.0	1809.074	1609.883	808.727	300.199	97.392	66.840	64.452	56.345	50.525
66.5	1819.766	1622.454	820.705	298.405	94.200	65.512	63.280	55.073	49.395
67.0	1831.589	1635.421	832.273	296.470	90.951	64.099	62.051	53.774	48.209
67.5	1840.177	1647.625	843.700	294.294	87.815	62.701	60.794	52.474	47.008
68.0	1847.536	1659.673	854.520	292.077	84.821	61.232	59.523	51.161	45.822
68.5	1853.694	1670.394	864.846	289.774	81.756	59.721	58.153	49.847	44.564
69.0	1858.299	1679.590	874.747	287.529	78.931	58.195	56.825	48.463	43.350
69.5	1860.672	1686.991	883.957	285.254	76.077	56.627	55.384	47.107	42.121
70.0	1862.042	1693.799	893.180	282.754	73.266	55.059	53.958	45.737	40.864
70.5	1863.822	1699.492	902.616	280.367	70.470	53.435	52.489	44.353	39.649
71.0	1865.997	1703.108	912.023	277.909	67.645	51.782	50.977	42.954	38.434
71.5	1870.277	1707.868	922.165	275.353	64.763	50.130	49.423	41.556	37.149
72.0	1876.351	1711.286	931.459	272.867	62.037	48.477	47.884	40.172	35.878
72.5	1881.535	1714.860	941.290	270.367	59.367	46.824	46.330	38.773	34.663
73.0	1887.566	1718.504	951.319	267.739	56.754	45.129	44.720	37.347	33.377
73.5	1893.372	1720.708	960.811	265.338	54.226	43.434	43.138	36.005	32.149
74.0	1900.406	1724.493	970.769	262.810	51.683	41.768	41.528	34.635	30.877
74.5	1911.056	1729.211	980.473	260.324	49.226	40.059	39.889	33.250	29.620
75.0	1919.729	1734.663	989.866	258.007	46.839	38.392	38.307	31.880	28.292
75.5	1930.464	1740.666	999.132	255.620	44.579	36.725	36.683	30.468	26.965
76.0	1943.162	1747.602	1007.946	253.219	42.333	35.002	35.087	29.069	25.651
76.5	1953.247	1755.201	1016.138	250.846	40.242	33.321	33.448	27.657	24.380
77.0	1960.338	1762.532	1024.515	248.515	38.152	31.668	31.866	26.287	23.123
77.5	1967.048	1770.639	1032.862	245.973	36.005	29.973	30.284	24.888	21.880
78.0	1975.155	1778.126	1041.352	243.388	33.872	28.292	28.716	23.546	20.764
78.5	1980.961	1785.894	1049.685	240.845	31.725	26.682	27.162	22.289	19.719
79.0	1985.890	1792.321	1056.762	238.119	29.634	25.044	25.623	21.131	18.645
79.5	1992.091	1798.423	1064.389	235.407	27.614	23.419	24.140	19.959	17.600
80.0	1994.111	1802.802	1071.268	232.724	25.623	21.753	22.727	18.928	16.583
80.5	1995.001	1807.322	1078.119	229.969	23.659	20.128	21.272	17.826	15.608
81.0	1995.594	1811.673	1085.097	227.187	21.795	18.617	19.916	16.809	14.676
81.5	1995.467	1814.314	1091.566	224.588	20.072	17.063	18.617	15.749	13.645
82.0	1994.860	1816.659	1098.078	222.017	18.461	15.594	17.430	14.648	12.642
82.5	1995.142	1818.029	1104.222	219.587	16.894	14.167	16.272	13.504	11.653

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 155SW-48LED48DMV30.IES**

**CANDELA TABULATION - (Cont.)**

83.0	1996.625	1819.342	1110.253	217.200	15.340	12.826	15.100	12.317	10.693
83.5	1995.142	1821.447	1115.932	214.870	13.786	11.526	13.913	11.258	9.789
84.0	1991.611	1823.199	1122.090	212.779	12.345	10.325	12.684	10.198	8.969
84.5	1984.676	1824.583	1127.472	210.731	10.989	9.195	11.399	9.294	8.193
85.0	1978.305	1823.255	1132.062	208.824	9.704	8.136	10.142	8.263	7.430
85.5	1970.353	1820.218	1136.116	207.058	8.532	7.176	8.927	7.402	6.695
86.0	1961.624	1816.009	1139.986	205.378	7.416	6.370	7.769	6.582	6.102
86.5	1952.810	1811.560	1143.066	203.866	6.385	5.523	6.596	5.933	5.608
87.0	1947.273	1807.011	1145.410	202.425	5.495	4.675	5.594	5.368	5.127
87.5	1944.546	1803.042	1146.752	201.281	4.647	3.828	4.732	4.774	4.619
88.0	1941.552	1798.339	1147.656	200.222	3.884	2.980	3.927	4.181	4.167
88.5	1938.911	1794.906	1147.557	199.389	3.291	2.274	3.206	3.701	3.757
89.0	1937.738	1793.013	1147.049	198.711	2.811	1.766	2.543	3.164	3.319
89.5	1935.182	1793.056	1146.074	198.216	2.444	1.201	1.822	2.458	2.684
90.0	1933.642	1793.932	1144.860	198.160	2.288	0.650	1.158	1.752	1.992
90.5	1933.882	1796.601	1142.585	198.329	2.373	0.537	0.918	1.413	1.681
91.0	1933.868	1799.709	1140.283	198.753	2.698	0.848	1.059	1.370	1.497
91.5	1933.458	1803.367	1138.207	199.516	3.093	1.384	1.568	1.709	1.780
92.0	1933.896	1806.390	1135.368	200.504	3.602	1.963	2.401	2.331	2.331
92.5	1936.382	1810.359	1132.119	201.776	4.308	2.684	3.192	3.192	3.051
93.0	1942.343	1814.272	1129.901	203.118	5.113	3.334	3.997	4.026	3.870
93.5	1949.575	1817.167	1126.554	204.742	6.031	4.068	5.142	4.831	4.548
94.0	1958.078	1820.515	1122.952	206.465	7.048	5.029	6.314	5.791	5.353
94.5	1965.508	1824.865	1119.505	208.203	8.193	6.102	7.190	7.020	6.314
95.0	1973.164	1828.510	1115.988	210.039	9.450	7.260	8.150	8.207	7.585
95.5	1979.266	1831.716	1112.245	212.129	10.721	8.546	9.238	8.984	8.574
96.0	1984.393	1833.298	1109.095	214.149	12.077	9.859	10.354	9.845	9.252
96.5	1987.049	1832.450	1105.620	216.310	13.532	11.229	11.681	10.820	10.043
97.0	1990.001	1831.306	1102.456	218.528	15.184	12.727	13.052	11.922	11.032
97.5	1991.201	1827.337	1099.052	220.746	16.696	14.210	14.506	13.094	12.006
98.0	1989.450	1820.840	1095.351	223.119	18.264	15.792	16.004	14.295	13.052
98.5	1989.662	1812.040	1090.422	225.407	19.916	17.444	17.529	15.636	14.210
99.0	1987.063	1803.607	1085.902	227.695	21.724	19.083	19.069	16.922	15.368
99.5	1986.568	1795.655	1081.777	229.955	23.645	20.778	20.594	18.278	16.512
100.0	1984.111	1786.361	1077.427	232.469	25.651	22.600	22.233	19.634	17.755
100.5	1981.935	1778.931	1072.638	234.574	27.600	24.323	23.843	21.032	18.942
101.0	1978.136	1772.603	1067.765	236.905	29.592	26.117	25.467	22.431	20.227
101.5	1970.664	1765.272	1063.132	239.221	31.739	27.911	27.148	23.829	21.555
102.0	1964.350	1758.478	1056.804	241.425	33.801	29.747	28.801	25.256	22.784
102.5	1957.005	1751.246	1050.674	243.628	36.033	31.584	30.397	26.654	24.182
103.0	1949.914	1745.045	1044.205	245.832	38.321	33.406	32.078	28.109	25.496
103.5	1943.967	1737.474	1037.623	248.021	40.482	35.242	33.759	29.550	26.809
104.0	1936.396	1729.889	1030.984	250.323	42.672	37.092	35.397	30.962	28.179
104.5	1928.882	1722.982	1024.359	252.612	45.016	38.957	37.064	32.459	29.507
105.0	1922.031	1717.035	1017.650	254.759	47.375	40.765	38.674	33.886	30.849
105.5	1913.542	1712.049	1010.164	257.061	49.833	42.559	40.355	35.284	32.205
106.0	1906.508	1708.009	1001.674	259.434	52.432	44.381	42.008	36.767	33.519
106.5	1897.779	1705.114	993.101	261.694	54.989	46.132	43.646	38.222	34.889
107.0	1887.835	1703.503	984.004	263.954	57.644	47.912	45.257	39.663	36.188
107.5	1880.377	1703.291	973.721	266.355	60.413	49.635	46.895	41.146	37.558
108.0	1873.371	1703.969	963.325	268.559	63.167	51.344	48.477	42.545	38.929
108.5	1868.681	1706.018	952.421	270.776	66.063	53.054	50.031	43.943	40.256
109.0	1863.864	1708.263	940.358	272.952	69.114	54.706	51.641	45.313	41.584
109.5	1860.291	1710.184	928.295	275.197	72.193	56.345	53.181	46.683	42.912
110.0	1857.621	1712.614	915.936	277.048	75.315	57.913	54.664	48.053	44.183
110.5	1857.607	1714.803	902.743	279.082	78.450	59.523	56.161	49.423	45.483

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 155SW-48LED48DMV30.IES**

**CANDELA TABULATION - (Cont.)**

111.0	1857.028	1716.611	890.398	280.819	81.643	61.077	57.588	50.737	46.796
111.5	1858.440	1717.883	877.346	282.627	84.976	62.560	59.000	52.065	48.025
112.0	1860.305	1716.428	864.097	284.379	88.479	64.071	60.370	53.421	49.367
112.5	1861.350	1713.532	851.879	286.003	91.940	65.526	61.698	54.734	50.624
113.0	1863.483	1706.455	840.028	287.613	95.542	66.967	62.969	56.076	51.867
113.5	1867.099	1695.424	827.782	289.238	99.285	68.379	64.297	57.362	53.054
114.0	1871.661	1680.183	816.609	290.848	103.014	69.735	65.498	58.647	54.339
114.5	1874.783	1661.806	805.732	292.571	106.743	71.077	66.727	59.890	55.554
115.0	1873.286	1638.881	794.305	294.196	110.585	72.391	67.913	61.147	56.797
115.5	1869.670	1613.245	783.457	295.707	114.398	73.648	69.085	62.362	58.054
116.0	1861.223	1583.992	772.341	297.331	118.212	74.863	70.201	63.520	59.170
116.5	1850.926	1552.846	761.239	299.139	122.181	76.063	71.317	64.735	60.328
117.0	1833.905	1521.757	750.165	300.622	126.080	77.278	72.391	65.879	61.486
117.5	1811.560	1490.753	739.274	302.402	130.077	78.394	73.436	67.037	62.560
118.0	1783.310	1459.663	728.892	304.507	134.117	79.524	74.411	68.181	63.647
118.5	1752.051	1429.959	718.002	306.696	138.072	80.611	75.329	69.255	64.650
119.0	1719.860	1399.830	707.182	308.928	142.098	81.657	76.204	70.441	65.653
119.5	1685.960	1368.811	696.546	311.089	146.180	82.688	77.080	71.529	66.628
120.0	1652.554	1340.011	686.348	312.982	150.163	83.634	77.914	72.645	67.631
120.5	1617.920	1313.357	676.446	314.818	154.189	84.595	78.761	73.747	68.577
121.0	1580.856	1287.169	667.392	316.315	158.257	85.470	79.524	74.834	69.580
121.5	1542.704	1261.348	658.931	317.798	162.310	86.318	80.272	75.922	70.639
122.0	1505.838	1237.407	651.699	319.253	166.308	87.137	80.979	76.995	71.699
122.5	1469.579	1213.691	644.142	320.694	170.446	87.956	81.727	78.041	72.772
123.0	1435.227	1189.424	636.374	322.248	174.585	88.634	82.405	79.128	73.860
123.5	1402.627	1164.366	628.916	323.703	178.752	89.397	83.097	80.174	75.018
124.0	1372.696	1139.478	620.822	324.889	183.046	90.118	83.662	81.176	76.176
124.5	1344.573	1114.985	612.531	325.779	187.396	90.753	84.227	82.179	77.278
125.0	1316.860	1088.925	604.112	326.584	191.874	91.431	84.792	83.097	78.479
125.5	1289.824	1063.217	595.383	327.192	196.408	92.137	85.259	84.016	79.623
126.0	1263.142	1037.524	587.416	327.940	201.098	92.787	85.668	84.962	80.739
126.5	1236.799	1012.381	579.351	328.604	205.787	93.437	86.035	85.795	81.854
127.0	1209.439	988.030	571.596	329.579	210.731	94.129	86.403	86.629	82.900
127.5	1182.771	965.882	564.195	331.048	215.590	94.765	86.685	87.462	83.888
128.0	1155.736	945.005	557.330	333.053	220.562	95.429	86.939	88.253	84.905
128.5	1127.839	925.880	551.299	335.158	225.477	96.078	87.180	89.030	85.809
129.0	1100.535	909.156	546.581	337.305	230.280	96.714	87.391	89.722	86.728
129.5	1075.647	894.494	542.118	339.339	234.969	97.406	87.575	90.386	87.632
130.0	1049.968	880.397	537.287	341.331	239.800	98.098	87.674	90.979	88.479
130.5	1025.475	867.854	532.696	343.986	244.546	98.748	87.759	91.516	89.256
131.0	1001.448	855.255	527.823	346.741	249.391	99.497	87.815	91.982	90.132
131.5	978.792	840.847	522.696	349.650	254.081	100.146	87.787	92.420	90.909
132.0	958.650	826.214	517.046	352.292	258.784	100.853	87.745	92.801	91.615
132.5	941.050	810.761	511.014	355.103	263.417	101.573	87.674	93.140	92.279
133.0	925.569	792.992	505.068	357.207	268.177	102.336	87.575	93.465	92.787
133.5	912.715	774.163	499.912	359.227	272.909	103.141	87.462	93.790	93.225
134.0	901.090	755.546	494.742	361.190	277.627	103.946	87.293	93.988	93.635
134.5	886.923	738.074	489.799	362.942	282.316	104.751	87.165	94.171	93.917
135.0	871.470	723.327	485.533	364.708	286.949	105.514	87.010	94.341	94.186
135.5	856.145	709.852	482.044	366.332	291.314	106.390	86.841	94.468	94.440
136.0	836.172	696.871	479.431	368.521	295.636	107.251	86.685	94.553	94.595
136.5	814.137	683.721	477.764	370.725	299.591	108.127	86.544	94.638	94.835
137.0	792.356	670.683	476.535	373.239	303.278	109.017	86.431	94.694	94.977
137.5	769.996	655.160	474.671	375.640	306.880	110.034	86.219	94.694	95.033
138.0	751.902	640.046	472.764	378.155	310.129	110.952	86.007	94.680	95.061
138.5	736.026	625.639	471.648	381.220	313.151	111.983	85.767	94.652	95.061

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 155SW-48LED48DMV30.IES**

**CANDELA TABULATION - (Cont.)**

139.0	720.432	612.969	470.617	385.118	315.849	113.042	85.499	94.567	94.948
139.5	705.614	603.378	469.105	388.861	318.505	114.074	85.216	94.468	94.864
140.0	686.842	595.962	468.314	392.520	320.991	115.161	84.920	94.341	94.751
140.5	665.499	590.171	468.964	396.362	323.237	116.305	84.609	94.171	94.638
141.0	647.999	585.524	471.945	399.992	325.271	117.435	84.312	93.945	94.567
141.5	632.645	580.919	474.996	403.693	327.135	118.537	84.030	93.649	94.440
142.0	620.540	575.142	477.453	408.410	328.957	119.724	83.761	93.296	94.327
142.5	612.969	565.480	480.533	412.817	330.808	120.981	83.465	92.928	94.200
143.0	607.036	555.437	481.889	417.309	332.404	122.210	83.267	92.561	93.945
143.5	604.169	544.872	481.451	421.871	333.802	123.523	83.027	92.166	93.649
144.0	598.646	535.451	479.332	425.855	335.059	124.837	82.843	91.784	93.324
144.5	590.623	528.840	476.578	429.909	336.302	126.263	82.758	91.445	92.957
145.0	577.303	526.651	474.205	434.810	337.305	127.676	82.645	91.135	92.505
145.5	563.503	525.973	471.832	440.163	338.308	129.060	82.561	90.796	92.081
146.0	551.228	524.362	469.925	446.364	339.198	130.557	82.504	90.541	91.643
146.5	540.197	522.004	469.120	453.130	340.088	132.069	82.476	90.202	91.191
147.0	534.264	517.950	469.360	460.334	340.639	133.481	82.405	89.863	90.824
147.5	532.950	512.992	470.589	467.679	341.444	134.823	82.363	89.567	90.555
148.0	533.883	514.079	472.213	475.052	342.136	136.349	82.391	89.199	90.188
148.5	532.089	519.348	474.077	482.496	342.630	137.846	82.405	88.776	89.863
149.0	529.758	524.546	475.546	488.979	343.012	139.400	82.490	88.310	89.538
149.5	525.605	529.264	475.900	494.686	343.520	141.081	82.561	87.773	89.199
150.0	524.800	530.931	474.572	498.923	343.916	142.761	82.730	87.222	88.846
150.5	530.577	529.504	473.654	501.734	344.240	144.471	82.956	86.643	88.507
151.0	535.338	524.645	473.541	503.556	344.565	146.279	83.196	86.134	87.971
151.5	538.629	520.393	474.275	504.743	344.622	148.200	83.564	85.725	87.533
152.0	540.493	514.037	476.154	505.096	344.368	150.234	83.973	85.315	86.869
152.5	538.939	506.692	481.126	505.237	344.071	152.183	84.482	84.990	86.318
153.0	534.052	503.585	487.270	505.477	343.788	154.302	85.089	84.651	85.781
153.5	526.976	501.254	493.259	505.732	343.421	156.519	85.809	84.298	85.329
154.0	518.571	498.217	499.361	505.717	342.786	158.864	86.615	83.973	84.920
154.5	510.817	496.522	506.085	505.407	342.390	161.195	87.519	83.634	84.538
155.0	508.090	498.316	514.065	504.898	341.980	163.497	88.493	83.253	84.157
155.5	504.164	499.799	521.537	504.686	341.486	165.870	89.694	82.984	83.733
156.0	500.449	498.217	528.247	504.616	341.133	168.201	90.965	82.744	83.422
156.5	500.689	498.655	535.790	504.658	340.794	170.672	92.335	82.617	82.914
157.0	504.644	501.946	542.951	505.294	340.328	173.173	93.945	82.547	82.518
157.5	504.093	505.477	550.465	506.028	339.833	175.673	95.640	82.603	82.137
158.0	502.794	511.706	557.090	506.749	339.424	178.229	97.533	82.758	81.869
158.5	507.158	521.778	565.381	507.130	339.071	180.729	99.525	83.055	81.727
159.0	511.184	532.188	572.557	506.819	338.718	183.201	101.629	83.493	81.600
159.5	518.416	538.360	578.941	505.943	338.280	185.814	103.819	84.129	81.685
160.0	529.857	545.889	583.476	504.856	338.054	188.428	106.319	84.891	81.883
160.5	540.917	554.802	585.905	503.401	337.672	191.027	108.847	85.809	82.278
161.0	547.231	562.048	586.414	501.805	337.347	193.555	111.475	86.939	82.829
161.5	556.553	570.071	585.976	499.545	337.107	196.168	114.398	88.324	83.634
162.0	564.944	578.376	583.702	497.016	336.980	198.838	117.351	89.934	84.538
162.5	572.430	585.608	580.297	493.923	336.938	201.493	120.599	91.798	85.725
163.0	580.453	592.403	575.495	491.070	336.768	204.389	123.961	94.002	87.208
163.5	588.617	596.386	570.057	488.118	336.486	207.242	127.634	96.375	88.917
164.0	595.086	600.637	565.099	484.615	336.472	209.982	131.490	99.016	90.951
164.5	599.762	600.680	560.296	480.561	336.119	212.963	135.699	101.968	93.437
165.0	602.784	599.409	555.692	476.606	335.935	215.717	139.993	105.132	96.107
165.5	604.720	597.276	551.412	472.877	335.723	218.641	144.584	108.508	99.129
166.0	601.626	591.329	547.118	469.402	335.441	221.720	149.287	112.181	102.463
166.5	599.451	587.374	542.753	466.012	335.172	224.743	153.991	116.023	106.036



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 155SW-48LED48DMV30.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	593.730	581.385	539.886	462.664	334.791	227.681	159.033	120.289	109.907
<b>167.5</b>	589.267	575.961	536.679	458.766	334.537	230.901	164.034	124.950	114.187
<b>168.0</b>	583.038	568.475	533.713	454.853	334.452	233.854	169.316	130.190	118.820
<b>168.5</b>	577.133	561.356	528.812	450.432	334.000	236.693	174.712	135.967	123.834
<b>169.0</b>	568.616	553.658	523.812	445.616	333.703	239.673	180.447	142.055	129.668
<b>169.5</b>	560.296	546.397	517.187	440.559	333.760	242.682	185.716	148.200	136.080
<b>170.0</b>	552.146	541.058	509.235	435.121	333.562	246.100	191.309	154.838	142.634
<b>170.5</b>	545.084	536.411	501.395	429.202	333.237	249.659	196.917	161.661	149.556
<b>171.0</b>	539.589	530.281	493.782	423.383	332.983	253.388	202.341	168.723	156.816
<b>171.5</b>	533.558	523.543	485.462	417.479	332.531	257.301	207.864	176.111	164.260
<b>172.0</b>	525.478	514.037	477.354	411.617	332.277	261.383	213.824	183.597	172.240
<b>172.5</b>	516.198	503.189	471.012	405.967	331.966	265.423	219.870	191.238	180.390
<b>173.0</b>	504.178	493.598	464.345	399.992	331.556	269.194	226.226	198.654	188.767
<b>173.5</b>	493.513	482.736	455.475	394.017	331.387	273.319	232.356	206.338	196.592
<b>174.0</b>	482.171	472.919	446.124	387.745	331.231	277.740	237.992	214.135	204.841
<b>174.5</b>	471.634	464.868	436.152	381.742	331.090	282.189	244.052	222.455	213.175
<b>175.0</b>	462.848	454.105	425.304	376.121	331.005	286.667	250.888	230.817	222.596
<b>175.5</b>	450.446	441.915	414.597	370.923	330.977	291.060	259.166	238.232	231.156
<b>176.0</b>	437.536	428.524	403.707	365.993	330.864	295.396	266.892	246.778	239.221
<b>176.5</b>	422.606	414.357	392.873	361.021	330.624	299.817	274.957	257.358	249.363
<b>177.0</b>	407.266	400.642	382.138	356.077	330.483	304.027	283.390	267.923	260.959
<b>177.5</b>	392.435	386.997	372.660	351.133	330.553	308.109	291.808	279.068	272.217
<b>178.0</b>	378.126	374.058	363.846	346.077	330.850	312.530	300.425	290.269	284.732
<b>178.5</b>	365.612	362.716	354.340	341.401	330.850	316.824	308.222	301.159	296.738
<b>179.0</b>	352.560	350.342	345.187	336.966	330.765	320.906	316.527	311.485	307.784
<b>179.5</b>	340.271	339.325	337.192	333.181	330.666	325.016	324.268	322.417	319.310
<b>180.0</b>	330.228	330.228	330.228	330.228	330.228	330.228	330.228	330.228	330.228

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 155SW-48LED48DMV30.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	116.56	N.A.	2.20
0-30	258.60	N.A.	4.90
0-40	446.56	N.A.	8.40
0-60	1052.75	N.A.	19.80
0-80	2075.51	N.A.	39.00
0-90	2644.91	N.A.	49.60
10-90	2617.3	N.A.	49.10
20-40	330.01	N.A.	6.20
20-50	583.22	N.A.	10.90
40-70	1084.04	N.A.	20.30
60-80	1022.76	N.A.	19.20
70-80	544.90	N.A.	10.20
80-90	569.40	N.A.	10.70
90-110	1114.53	N.A.	20.90
90-120	1603.86	N.A.	30.10
90-130	1961.32	N.A.	36.80
90-150	2408.24	N.A.	45.20
90-180	2683.41	N.A.	50.40
110-180	1568.88	N.A.	29.40
0-180	5328.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	27.60
10-20	88.96
20-30	142.04
30-40	187.96
40-50	253.21
50-60	352.97
60-70	477.86
70-80	544.90
80-90	569.40
90-100	568.07
100-110	546.46
110-120	489.32
120-130	357.46
130-140	256.01
140-150	190.91
150-160	145.32
160-170	97.40
170-180	32.45

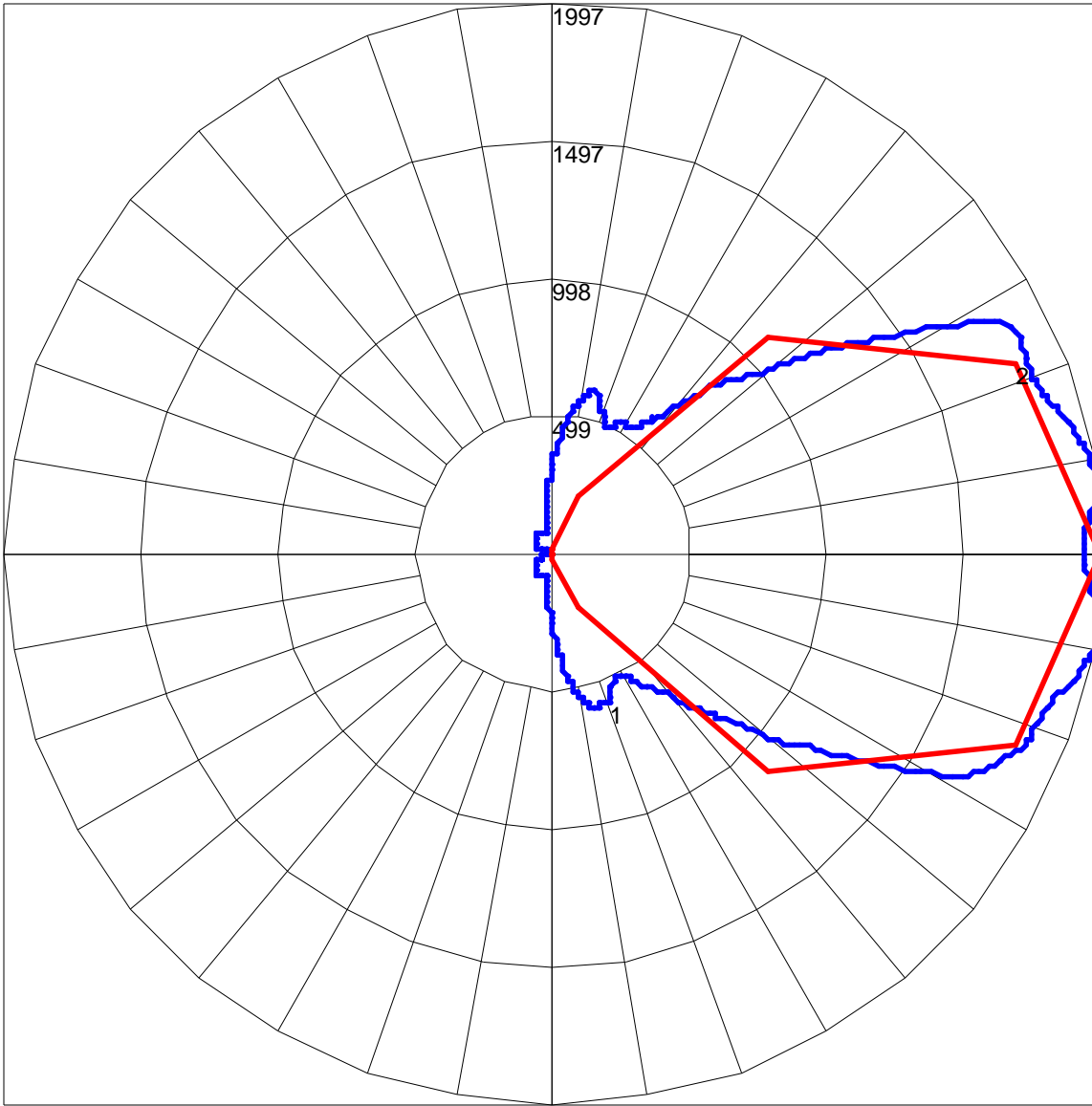
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 155SW-48LED48DMV30.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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 = 1996.625 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.)