



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 44-48LED48DMVFR50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000657-016  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] 44-48LED48DMVFR50  
 [LUMINAIRE] Catalog Number: 44-48LED48DMVFR50  
 [MORE] Surface/pendant mounted, white formed steel housing and LED tray, frosted plastic lens  
 [MORE] enclosure with white steel endcaps. 128 white LEDs, four Universal Lighting Technologies  
 [MORE] Everline M10CC850D32N2S boards with 32 LED each. One Universal Lighting  
 [MORE] Technologies Everline D10CC55UNVTZ-C LED driver set at 860mA.  
 [MORE] 120.0Vac, 60.0Hz, 0.40A, 48.0W, 0.998PF, 5.14%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 44-48LED57DMVFR30  
 [DATE] The original file was created: Wednesday, October 12, 2016 2:57:52 PM  
 [ISSUE DATE] Wednesday, October 12, 2016 2:57:52 PM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.11 m
Luminous Height	0.03 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12862	11299	10696
55	11197	9554	9166
65	9331	7829	7917
75	7321	6275	6800
85	5106	4998	5827

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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>
0.0	2175.697	2175.697	2175.697	2175.697	2175.697
0.5	2165.938	2169.022	2182.787	2182.046	2171.012
1.0	2165.550	2168.697	2182.489	2181.630	2170.822
1.5	2165.215	2168.209	2181.847	2181.114	2170.451
2.0	2164.555	2167.566	2181.132	2180.264	2169.728
2.5	2163.451	2166.608	2180.228	2179.324	2168.905
3.0	2162.294	2165.387	2178.971	2178.211	2167.747
3.5	2160.919	2164.003	2177.587	2176.918	2166.373
4.0	2159.210	2162.375	2176.059	2175.299	2164.935
4.5	2157.392	2160.702	2174.196	2173.436	2163.234
5.0	2155.321	2158.577	2172.097	2171.419	2161.290
5.5	2153.123	2156.298	2169.764	2169.231	2159.137
6.0	2150.546	2153.910	2167.349	2166.725	2156.723
6.5	2147.968	2151.269	2164.564	2164.021	2154.263
7.0	2144.965	2148.429	2161.643	2161.091	2151.296
7.5	2141.737	2145.381	2158.586	2157.889	2148.230
8.0	2138.608	2142.008	2155.167	2154.398	2144.739
8.5	2134.936	2138.454	2151.486	2150.690	2141.077
9.0	2131.264	2134.809	2147.661	2146.874	2137.477
9.5	2127.321	2130.821	2143.645	2142.858	2133.407
10.0	2123.215	2126.588	2139.331	2138.390	2129.175
10.5	2118.738	2122.220	2134.881	2133.706	2124.616
11.0	2114.324	2117.698	2130.160	2129.048	2119.832
11.5	2109.305	2112.814	2125.105	2123.884	2114.749
12.0	2104.403	2107.767	2119.959	2118.467	2109.513
12.5	2099.176	2102.594	2114.641	2113.022	2104.123
13.0	2093.586	2097.059	2108.934	2107.243	2098.434
13.5	2087.988	2091.398	2103.227	2101.247	2092.546
14.0	2082.073	2085.483	2096.987	2094.907	2086.170
14.5	2075.978	2079.234	2090.674	2088.223	2079.550
15.0	2069.575	2073.093	2084.253	2081.495	2072.984
15.5	2063.108	2066.563	2077.542	2074.540	2066.129
16.0	2056.208	2059.771	2070.343	2067.033	2058.930
16.5	2049.189	2052.644	2063.153	2059.744	2051.478
17.0	2042.000	2045.427	2055.638	2051.948	2043.555
17.5	2034.620	2037.957	2048.059	2043.953	2035.850
18.0	2026.977	2030.278	2039.983	2035.714	2027.674
18.5	2019.082	2022.392	2031.825	2027.276	2019.290
19.0	2010.843	2014.280	2023.297	2018.458	2010.481
19.5	2002.712	2005.905	2014.623	2009.658	2001.627
20.0	1994.311	1997.358	2005.887	2000.316	1992.493
20.5	1985.619	1988.450	1996.617	1990.765	1982.987
21.0	1976.485	1979.379	1987.338	1981.188	1973.437
21.5	1967.540	1970.199	1977.796	1971.357	1963.823
22.0	1957.990	1960.549	1967.866	1961.101	1953.386
22.5	1948.494	1950.755	1957.863	1950.646	1942.959
23.0	1938.518	1940.870	1947.662	1940.101	1932.404
23.5	1928.325	1930.577	1937.161	1928.950	1921.624
24.0	1918.278	1920.204	1926.399	1918.024	1910.599
24.5	1907.732	1909.514	1915.474	1906.638	1899.240
25.0	1896.898	1898.535	1904.088	1894.890	1887.618
25.5	1886.081	1887.492	1892.746	1883.096	1875.870
26.0	1874.948	1876.087	1881.143	1871.176	1863.986
26.5	1863.209	1864.339	1869.205	1858.759	1851.714

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**CANDELA TABULATION - (Cont.)**

27.0	1851.641	1852.591	1856.995	1846.197	1839.224
27.5	1839.776	1840.581	1844.768	1833.535	1826.517
28.0	1827.358	1828.154	1832.088	1820.530	1813.602
28.5	1815.266	1815.710	1819.318	1807.317	1800.588
29.0	1802.596	1802.930	1806.439	1793.905	1787.320
29.5	1789.663	1789.799	1793.109	1780.339	1773.610
30.0	1776.811	1776.802	1779.760	1766.610	1759.980
30.5	1763.616	1763.435	1766.085	1752.501	1746.134
31.0	1749.851	1749.616	1752.112	1738.130	1731.836
31.5	1736.195	1735.806	1738.112	1723.823	1717.546
32.0	1722.339	1721.742	1723.967	1709.280	1703.112
32.5	1707.987	1707.399	1709.343	1694.411	1688.280
33.0	1693.679	1692.919	1694.773	1679.543	1673.429
33.5	1679.091	1678.386	1679.968	1664.431	1658.380
34.0	1664.123	1663.237	1664.856	1648.947	1643.213
34.5	1649.155	1648.206	1649.779	1633.645	1627.857
35.0	1633.916	1632.957	1634.477	1618.062	1612.373
35.5	1618.198	1617.266	1618.740	1602.108	1596.438
36.0	1602.443	1601.512	1603.013	1586.101	1580.683
36.5	1586.788	1585.893	1587.394	1570.210	1564.983
37.0	1570.373	1569.640	1571.241	1553.768	1548.649
37.5	1554.257	1553.434	1555.089	1537.516	1532.732
38.0	1537.733	1537.127	1538.855	1521.092	1516.498
38.5	1520.984	1520.414	1522.304	1504.298	1499.965
39.0	1504.162	1503.800	1505.898	1487.801	1483.596
39.5	1487.078	1486.987	1489.239	1471.079	1466.982
40.0	1469.505	1469.912	1472.110	1453.868	1450.196
40.5	1452.322	1452.946	1455.351	1437.236	1433.664
41.0	1434.812	1435.834	1438.521	1420.288	1417.023
41.5	1416.761	1418.434	1421.192	1403.131	1400.047
42.0	1399.116	1401.142	1404.135	1386.038	1383.379
42.5	1381.390	1383.741	1386.915	1368.990	1366.576
43.0	1363.157	1365.979	1369.234	1351.743	1349.528
43.5	1345.168	1348.433	1352.051	1334.533	1332.932
44.0	1326.972	1330.816	1334.424	1317.367	1316.083
44.5	1308.504	1312.836	1316.598	1299.876	1298.746
45.0	1290.289	1295.056	1299.143	1282.828	1282.077
45.5	1272.111	1277.221	1281.625	1265.735	1265.464
46.0	1253.254	1259.042	1263.745	1248.398	1248.416
46.5	1234.768	1241.126	1246.137	1231.322	1231.729
47.0	1216.328	1223.201	1228.356	1214.284	1215.161
47.5	1197.579	1204.851	1210.530	1197.010	1198.466
48.0	1178.931	1186.953	1192.795	1180.025	1181.843
48.5	1160.436	1168.910	1174.933	1163.058	1165.347
49.0	1141.561	1150.677	1157.017	1145.947	1148.678
49.5	1122.975	1132.734	1139.327	1129.279	1132.553
50.0	1104.480	1114.673	1121.673	1112.584	1116.500
50.5	1085.407	1096.368	1103.775	1095.599	1100.067
51.0	1067.002	1078.515	1086.166	1079.139	1084.249
51.5	1048.579	1060.554	1068.612	1062.742	1068.341
52.0	1029.768	1042.475	1050.868	1046.282	1052.333
52.5	1011.345	1024.477	1033.358	1029.994	1036.705
53.0	992.850	1006.624	1015.894	1013.742	1021.113
53.5	974.111	988.672	998.213	997.517	1005.539
54.0	955.906	970.946	981.048	981.699	990.300
54.5	937.564	953.210	963.792	965.926	975.106

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**CANDELA TABULATION - (Cont.)**

55.0	918.997	935.231	946.373	950.018	959.858
55.5	900.954	917.821	929.461	934.507	945.026
56.0	882.930	900.384	912.512	919.214	930.356
56.5	864.688	882.667	895.374	903.749	915.452
57.0	846.627	865.339	878.643	888.582	901.045
57.5	828.711	847.993	861.984	873.551	886.529
58.0	810.650	830.520	845.225	858.511	872.104
58.5	792.942	813.481	828.946	843.778	858.077
59.0	775.288	796.433	812.612	829.163	844.004
59.5	757.670	779.231	796.270	814.620	829.950
60.0	740.297	762.545	780.253	800.340	816.212
60.5	723.086	745.813	764.417	786.150	802.664
61.0	705.486	728.901	748.328	771.788	788.800
61.5	688.438	712.369	732.763	757.932	775.414
62.0	671.662	695.900	717.207	744.104	762.084
62.5	654.487	679.376	701.769	730.339	748.708
63.0	637.909	663.296	686.593	716.764	735.594
63.5	621.350	647.180	671.571	703.316	722.534
64.0	604.673	631.045	656.450	689.876	709.384
64.5	588.529	615.281	641.844	676.699	696.732
65.0	572.377	599.482	627.238	663.567	683.952
65.5	556.188	583.528	612.677	650.417	670.992
66.0	540.397	568.108	598.378	637.620	658.512
66.5	524.724	552.842	584.342	624.895	646.031
67.0	508.960	537.367	570.269	612.089	633.387
67.5	493.603	522.427	556.432	599.545	621.097
68.0	478.346	507.459	542.785	587.173	608.869
68.5	463.125	492.455	529.146	574.755	596.624
69.0	448.347	477.948	515.933	562.519	584.514
69.5	433.615	463.396	502.819	550.454	572.431
70.0	418.746	448.953	489.660	538.217	560.249
70.5	404.366	434.799	476.845	526.361	548.455
71.0	390.339	420.962	464.265	514.576	536.544
71.5	376.059	407.016	451.576	502.693	524.850
72.0	362.266	393.477	439.267	491.116	513.138
72.5	348.755	380.137	427.148	479.658	501.625
73.0	335.180	367.114	415.020	468.099	490.067
73.5	322.084	354.018	403.236	456.885	478.663
74.0	308.907	341.185	391.460	445.544	467.258
74.5	296.110	328.550	379.920	434.429	455.971
75.0	283.575	316.350	368.661	423.485	444.929
75.5	271.275	304.240	357.509	412.696	433.904
76.0	258.975	292.212	346.421	401.780	422.843
76.5	247.028	280.581	335.632	391.243	412.162
77.0	235.451	269.195	325.068	380.825	401.427
77.5	223.821	257.917	314.514	370.352	390.782
78.0	212.597	246.892	304.195	360.060	380.318
78.5	201.410	236.094	294.093	350.048	369.891
79.0	190.458	225.386	283.991	339.919	359.635
79.5	179.994	215.148	274.332	330.097	349.533
80.0	169.521	205.000	264.718	320.411	339.656
80.5	159.156	195.043	255.222	310.670	329.690
81.0	149.307	185.330	246.078	301.346	320.130
81.5	139.558	175.879	237.007	292.103	310.544
82.0	129.899	166.491	228.044	282.833	301.075
82.5	120.529	157.402	219.317	273.843	291.768

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**CANDELA TABULATION - (Cont.)**

83.0	111.431	148.557	210.807	264.953	282.697
83.5	102.423	139.775	202.251	256.189	273.662
84.0	93.569	131.292	194.111	247.616	264.926
84.5	84.977	122.962	185.972	239.241	256.262
85.0	76.377	114.678	177.950	230.821	247.589
85.5	68.255	106.764	170.136	222.763	239.331
86.0	60.016	98.878	162.475	214.668	231.029
86.5	51.885	91.028	154.743	206.655	222.772
87.0	43.954	83.368	147.218	198.859	214.967
87.5	36.031	75.825	139.956	191.480	207.515
88.0	28.208	68.246	132.694	184.697	200.668
88.5	20.412	60.848	126.100	178.981	194.898
89.0	12.607	53.803	120.837	174.007	189.960
89.5	0.000	48.024	116.650	169.647	185.474
90.0	0.000	44.623	113.240	165.831	181.495
90.5	0.000	42.814	110.671	162.720	178.185
91.0	0.000	42.597	109.170	160.359	175.671
91.5	0.000	42.588	108.655	159.012	173.998
92.0	0.000	42.434	108.356	158.143	172.813
92.5	0.000	42.254	107.994	157.348	171.709
93.0	0.000	42.245	107.633	156.570	170.787
93.5	0.000	42.136	107.316	155.864	169.882
94.0	0.000	42.027	106.945	155.114	169.023
94.5	0.000	41.892	106.692	154.426	168.209
95.0	0.000	41.783	106.258	153.739	167.314
95.5	0.000	41.630	106.014	153.052	166.491
96.0	0.000	41.584	105.634	152.409	165.777
96.5	0.000	41.431	105.245	151.713	165.017
97.0	0.000	41.331	104.892	151.243	164.375
97.5	0.000	41.168	104.540	150.574	163.687
98.0	0.000	40.987	104.196	149.986	163.018
98.5	0.000	40.924	103.744	149.325	162.313
99.0	0.000	40.797	103.427	148.747	161.725
99.5	0.000	40.734	102.939	148.231	161.092
100.0	0.000	40.635	102.541	147.571	160.459
100.5	0.000	40.490	102.170	147.046	159.862
101.0	0.000	40.273	101.754	146.477	159.220
101.5	0.000	40.192	101.338	145.880	158.650
102.0	0.000	40.047	100.895	145.274	158.062
102.5	0.000	39.875	100.470	144.713	157.537
103.0	0.000	39.803	100.036	144.044	156.895
103.5	0.000	39.685	99.529	143.447	156.253
104.0	0.000	39.477	99.104	142.814	155.647
104.5	0.000	39.305	98.589	142.154	154.960
105.0	0.000	39.161	98.164	141.448	154.390
105.5	0.000	38.989	97.612	140.824	153.721
106.0	0.000	38.808	97.042	140.083	152.943
106.5	0.000	38.654	96.599	139.477	152.319
107.0	0.000	38.491	96.020	138.626	151.586
107.5	0.000	38.328	95.478	137.831	150.745
108.0	0.000	38.111	94.944	137.143	149.959
108.5	0.000	37.958	94.338	136.302	149.163
109.0	0.000	37.759	93.714	135.488	148.412
109.5	0.000	37.515	93.072	134.602	147.526
110.0	0.000	37.243	92.484	133.706	146.576
110.5	0.000	37.044	91.833	132.865	145.690

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**CANDELA TABULATION - (Cont.)**

111.0	0.000	36.818	91.182	131.979	144.659
111.5	0.000	36.601	90.639	131.084	143.791
112.0	0.000	36.239	89.834	130.062	142.778
112.5	0.000	35.959	89.201	129.103	141.792
113.0	0.000	35.742	88.450	128.117	140.725
113.5	0.000	35.516	87.781	127.122	139.621
114.0	0.000	35.217	87.003	126.119	138.527
114.5	0.000	34.964	86.225	125.015	137.442
115.0	0.000	34.602	85.520	123.975	136.329
115.5	0.000	34.286	84.751	122.854	135.199
116.0	0.000	34.105	83.937	121.768	134.005
116.5	0.000	33.779	83.151	120.575	132.829
117.0	0.000	33.463	82.355	119.435	131.581
117.5	0.000	33.119	81.595	118.368	130.378
118.0	0.000	32.857	80.718	117.210	129.058
118.5	0.000	32.513	79.804	116.071	127.801
119.0	0.000	32.151	79.017	114.877	126.390
119.5	0.000	31.889	78.222	113.692	125.115
120.0	0.000	31.545	77.317	112.435	123.749
120.5	0.000	31.319	76.503	111.232	122.438
121.0	0.000	31.030	75.671	109.975	120.963
121.5	0.000	30.741	74.930	108.618	119.634
122.0	0.000	30.433	74.097	107.397	118.223
122.5	0.000	30.135	73.157	106.041	116.858
123.0	0.000	29.845	72.289	104.811	115.438
123.5	0.000	29.565	71.402	103.518	114.045
124.0	0.000	29.303	70.516	102.233	112.670
124.5	0.000	29.040	69.657	100.949	111.205
125.0	0.000	28.769	68.762	99.701	109.812
125.5	0.000	28.461	67.939	98.426	108.356
126.0	0.000	28.262	67.043	97.124	106.963
126.5	0.000	28.018	66.211	95.857	105.580
127.0	0.000	27.648	65.334	94.519	104.078
127.5	0.000	27.458	64.448	93.262	102.713
128.0	0.000	27.141	63.625	91.959	101.293
128.5	0.000	26.843	62.765	90.702	99.873
129.0	0.000	26.589	61.924	89.391	98.426
129.5	0.000	26.336	61.092	88.215	97.006
130.0	0.000	26.056	60.152	86.895	95.505
130.5	0.000	25.712	59.392	85.665	94.121
131.0	0.000	25.423	58.488	84.353	92.701
131.5	0.000	25.178	57.637	83.123	91.399
132.0	0.000	24.907	56.851	81.848	89.915
132.5	0.000	24.573	55.973	80.609	88.514
133.0	0.000	24.292	55.141	79.361	87.193
133.5	0.000	23.939	54.345	78.023	85.800
134.0	0.000	23.686	53.495	76.856	84.344
134.5	0.000	23.379	52.654	75.545	82.888
135.0	0.000	23.080	51.876	74.306	81.495
135.5	0.000	22.691	50.999	73.103	80.130
136.0	0.000	22.492	50.131	71.873	78.710
136.5	0.000	22.194	49.344	70.643	77.399
137.0	0.000	21.823	48.476	69.358	75.988
137.5	0.000	21.479	47.680	68.156	74.622
138.0	0.000	21.136	46.884	66.862	73.229
138.5	0.000	20.828	46.052	65.705	71.972

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**CANDELA TABULATION - (Cont.)**

139.0	0.000	20.458	45.211	64.466	70.498
139.5	0.000	20.132	44.487	63.290	69.250
140.0	0.000	19.797	43.601	62.132	67.902
140.5	0.000	19.454	42.860	60.948	66.573
141.0	0.000	19.038	42.064	59.708	65.298
141.5	0.000	18.757	41.286	58.605	64.041
142.0	0.000	18.386	40.481	57.447	62.756
142.5	0.000	17.998	39.649	56.308	61.526
143.0	0.000	17.591	38.925	55.214	60.215
143.5	0.000	17.156	38.130	54.056	58.958
144.0	0.000	16.858	37.352	52.971	57.800
144.5	0.000	16.460	36.628	51.885	56.570
145.0	0.000	16.071	35.878	50.728	55.385
145.5	0.000	15.655	35.181	49.679	54.119
146.0	0.000	15.293	34.431	48.602	53.016
146.5	0.000	14.941	33.635	47.553	51.786
147.0	0.000	14.498	32.938	46.486	50.637
147.5	0.000	14.136	32.188	45.374	49.462
148.0	0.000	13.792	31.482	44.352	48.358
148.5	0.000	13.340	30.804	43.339	47.273
149.0	0.000	13.014	30.053	42.353	46.124
149.5	0.000	12.662	29.330	41.358	44.922
150.0	0.000	12.237	28.633	40.345	43.818
150.5	0.000	11.857	27.919	39.387	42.778
151.0	0.000	11.522	27.313	38.328	41.711
151.5	0.000	11.151	26.589	37.388	40.698
152.0	0.000	10.780	25.911	36.429	39.667
152.5	0.000	10.473	25.251	35.507	38.555
153.0	0.000	10.138	24.618	34.521	37.551
153.5	0.000	9.858	23.921	33.644	36.673
154.0	0.000	9.451	23.252	32.739	35.552
154.5	0.000	9.107	22.583	31.799	34.639
155.0	0.000	8.836	21.905	30.967	33.617
155.5	0.000	8.447	21.299	30.035	32.667
156.0	0.000	8.167	20.629	29.203	31.717
156.5	0.000	7.850	19.987	28.335	30.786
157.0	0.000	7.570	19.255	27.503	29.918
157.5	0.000	7.253	18.613	26.734	29.031
158.0	0.000	7.054	17.961	25.911	28.163
158.5	0.000	6.674	17.238	25.142	27.304
159.0	0.000	6.448	16.587	24.346	26.427
159.5	0.000	6.213	15.990	23.632	25.585
160.0	0.000	5.870	15.339	22.773	24.753
160.5	0.000	5.616	14.724	22.004	23.949
161.0	0.000	0.000	14.109	21.244	23.098
161.5	0.000	0.000	13.457	20.448	22.266
162.0	0.000	0.000	12.960	19.734	21.489
162.5	0.000	0.000	12.345	19.010	20.647
163.0	0.000	0.000	11.802	18.251	19.806
163.5	0.000	0.000	11.242	17.509	19.038
164.0	0.000	0.000	10.581	16.822	18.296
164.5	0.000	0.000	10.138	16.080	17.509
165.0	0.000	0.000	9.532	15.384	16.740
165.5	0.000	0.000	8.999	14.696	15.926
166.0	0.000	0.000	8.447	13.919	15.122
166.5	0.000	0.000	8.013	13.168	14.443



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**CANDELA TABULATION - (Cont.)**

167.0	0.000	0.000	7.443	12.508	13.620
167.5	0.000	0.000	6.919	11.775	12.942
168.0	0.000	0.000	6.430	11.070	12.119
168.5	0.000	0.000	5.996	10.328	11.432
169.0	0.000	0.000	5.454	9.659	10.708
169.5	0.000	0.000	0.000	9.026	9.976
170.0	0.000	0.000	0.000	8.330	9.324
170.5	0.000	0.000	0.000	7.615	8.492
171.0	0.000	0.000	0.000	6.901	7.787
171.5	0.000	0.000	0.000	6.277	7.063
172.0	0.000	0.000	0.000	5.580	6.376
172.5	0.000	0.000	0.000	0.000	5.707
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	791.40	N.A.	12.90
0-30	1664.64	N.A.	27.20
0-40	2680.91	N.A.	43.70
0-60	4520.57	N.A.	73.70
0-80	5537.13	N.A.	90.30
0-90	5727.15	N.A.	93.40
10-90	5521.51	N.A.	90.10
20-40	1889.51	N.A.	30.80
20-50	2884.88	N.A.	47.10
40-70	2464.76	N.A.	40.20
60-80	1016.56	N.A.	16.60
70-80	391.47	N.A.	6.40
80-90	190.02	N.A.	3.10
90-110	199.44	N.A.	3.30
90-120	276.83	N.A.	4.50
90-130	333.53	N.A.	5.40
90-150	391.21	N.A.	6.40
90-180	403.13	N.A.	6.60
110-180	203.70	N.A.	3.30
0-180	6130.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	205.64
10-20	585.76
20-30	873.24
30-40	1016.27
40-50	995.37
50-60	844.29
60-70	625.09
70-80	391.47
80-90	190.02
90-100	105.44
100-110	93.99
110-120	77.39
120-130	56.70
130-140	36.97
140-150	20.71
150-160	9.30
160-170	2.52
170-180	0.11

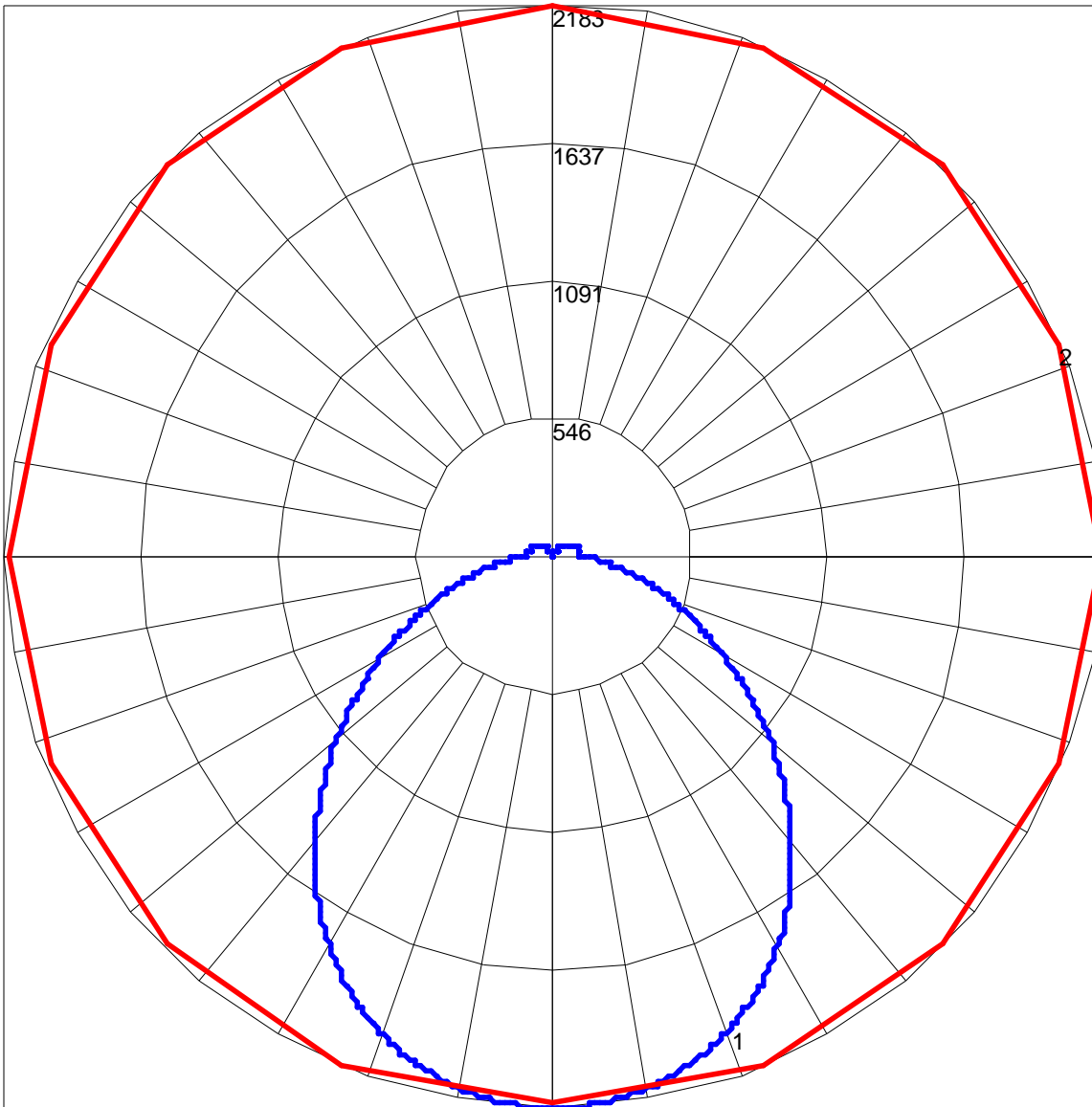
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 44-48LED48DMVFR50.IES**

**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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	78
2	97	89	82	77	94	87	81	75	82	77	73	78	74	70	74	70	67	65
3	89	79	70	64	86	76	69	63	73	66	61	69	64	59	66	61	57	55
4	82	70	61	55	79	68	60	54	65	58	52	62	56	51	59	54	50	47
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41
6	69	56	48	41	67	55	47	41	53	45	40	50	44	39	48	43	38	36
7	65	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	41	35	31	29
9	56	43	35	29	54	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	27	51	39	32	27	38	31	26	36	30	26	35	29	25	24

POLAR GRAPH



Maximum Candela = 2182.787 Located At Horizontal Angle = 45, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)