



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LSBR96-LED65DMV50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]  
 [ISSUEDATE] 2018-10-22 15:45  
 [MANUFAC] Mobern Lighting Co.  
 [LUMCAT]  
 [LUMINAIRE] LSBR96-LED65DMV50  
 [LAMPCAT] KL-F3-M2-GW  
 [LAMP] DIM35W12S-850  
 [VOLTAGE] 120.9 V  
 [CURRENT] 0.302 A  
 [POWERFACTOR] 0.996  
 [TESTLAB]  
 [TESTINST] GPM-1800B  
 [TESTDIST] 11.952 m

**CHARACTERISTICS**

Lumens Per Lamp	4222.4 (1 lamp)
Total Lamp Lumens	4222.4
Luminaire Lumens	4222
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	36.44
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
<b>0</b>	1035.847	1035.847	1035.847	1035.847	1035.847	1035.847	1035.847	1035.847	1035.847	1035.847
<b>1</b>	1036.330	1036.210	1036.230	1034.890	1035.810	1035.060	1036.990	1036.380	1036.060	1035.620
<b>2</b>	1036.060	1035.330	1035.350	1034.200	1035.500	1035.130	1036.430	1036.280	1035.690	1034.690
<b>3</b>	1035.570	1034.130	1034.100	1033.590	1034.640	1034.720	1037.180	1035.940	1035.080	1033.740
<b>4</b>	1034.690	1032.810	1032.910	1032.000	1033.350	1033.790	1036.500	1034.540	1032.980	1032.570
<b>5</b>	1033.080	1030.810	1030.830	1029.730	1031.440	1032.660	1035.790	1033.740	1032.050	1030.560
<b>6</b>	1031.780	1028.750	1028.270	1027.560	1030.070	1031.540	1034.060	1032.000	1030.320	1028.680
<b>7</b>	1029.610	1025.650	1024.160	1025.040	1026.510	1029.850	1031.440	1030.730	1028.580	1025.680
<b>8</b>	1046.880	1022.820	1021.520	1021.820	1023.890	1026.800	1029.760	1029.560	1026.210	1022.600
<b>9</b>	1049.930	1020.380	1017.640	1018.250	1020.790	1024.770	1027.970	1026.850	1023.060	1018.030
<b>10</b>	1047.220	1016.910	1013.730	1014.540	1017.570	1021.670	1026.070	1024.380	1020.180	1014.100
<b>11</b>	1043.920	1014.370	1009.750	1008.770	1013.730	1018.690	1047.880	1021.380	1015.980	1010.120
<b>12</b>	1040.900	1010.630	1005.940	1004.470	1009.600	1016.250	1045.170	1018.270	1011.730	1005.500
<b>13</b>	1036.790	1006.740	1000.880	999.460	1005.180	1013.020	1042.120	1013.390	1005.330	1000.290
<b>14</b>	1032.570	1002.030	995.900	993.630	1000.030	1009.430	1038.920	1010.140	1001.080	995.020
<b>15</b>	1028.460	997.780	989.910	987.540	994.750	1005.160	1034.840	1005.960	995.950	988.910
<b>16</b>	1024.260	991.430	984.020	981.340	989.010	1001.390	1031.150	1002.100	990.350	983.000
<b>17</b>	1019.300	986.270	976.620	974.640	982.930	996.830	1027.240	997.780	985.220	976.430
<b>18</b>	1014.780	980.950	970.150	967.680	977.310	990.210	1023.180	992.600	978.500	968.440
<b>19</b>	1010.460	975.450	963.480	960.160	970.590	985.590	1018.860	987.840	972.100	961.260
<b>20</b>	1005.250	969.710	956.300	953.000	963.700	980.090	1013.050	982.630	965.170	953.420
<b>21</b>	999.950	963.190	947.800	943.500	954.980	974.940	1007.380	977.060	958.010	945.300
<b>22</b>	992.820	957.030	940.050	935.120	947.670	968.850	1002.050	970.420	949.460	936.930
<b>23</b>	971.400	950.780	931.990	926.400	939.660	962.820	996.970	964.240	941.690	927.570
<b>24</b>	957.810	943.620	923.340	916.650	931.920	956.660	991.500	958.180	933.900	918.510
<b>25</b>	951.730	937.510	914.570	907.200	923.220	950.510	986.520	951.630	925.570	909.350
<b>26</b>	946.400	929.160	905.240	897.400	914.480	943.030	955.880	944.570	916.820	899.650
<b>27</b>	939.200	921.900	896.180	887.550	905.610	936.070	950.090	936.490	906.510	889.020
<b>28</b>	932.480	914.260	886.580	877.170	896.890	928.990	943.670	929.770	897.250	879.050
<b>29</b>	925.880	907.100	876.510	866.620	887.160	921.680	936.290	922.460	888.090	869.010
<b>30</b>	919.190	897.570	864.640	855.310	875.680	913.010	929.330	914.670	878.100	855.850
<b>31</b>	911.640	889.510	854.600	843.970	865.300	905.020	922.950	906.800	868.300	845.020
<b>32</b>	905.050	881.280	844.510	832.860	855.330	896.960	915.990	898.550	857.700	833.270
<b>33</b>	898.080	872.650	833.860	819.200	844.170	889.040	908.690	890.360	847.370	821.670
<b>34</b>	890.460	863.910	822.330	807.280	833.520	880.540	901.040	882.010	836.600	809.360
<b>35</b>	882.080	855.330	811.580	795.160	822.620	871.870	893.440	871.990	823.750	797.360
<b>36</b>	874.120	846.830	800.070	782.900	811.650	863.590	886.020	863.520	812.900	784.860
<b>37</b>	867.130	838.010	788.350	770.200	800.000	854.600	878.220	854.600	800.690	772.300
<b>38</b>	859.050	827.800	775.180	756.370	787.710	845.290	870.210	845.370	789.740	759.230
<b>39</b>	851.060	818.320	762.970	743.250	775.960	834.760	861.710	835.550	777.230	744.450
<b>40</b>	842.870	808.890	750.750	729.960	763.990	825.480	854.230	826.430	765.290	731.110
<b>41</b>	834.840	799.320	738.510	716.260	751.970	815.830	845.830	816.930	753.100	717.850
<b>42</b>	826.650	789.840	726.250	701.230	737.880	806.960	835.890	807.670	741.420	704.070
<b>43</b>	818.100	778.940	712.150	687.020	725.080	796.360	827.310	797.140	727.570	689.000
<b>44</b>	808.180	769.460	699.520	673.170	712.770	786.050	818.860	786.790	714.790	674.680
<b>45</b>	799.730	759.380	686.990	659.170	700.330	776.230	809.970	776.920	701.940	660.190
<b>46</b>	790.770	748.870	674.270	642.510	686.970	766.700	800.170	766.750	689.040	645.710
<b>47</b>	782.070	739.030	660.410	628.140	674.120	756.200	791.670	755.030	674.480	631.120
<b>48</b>	773.080	729.060	647.470	613.360	661.640	745.430	782.560	744.720	661.170	615.540
<b>49</b>	763.600	718.770	634.270	598.190	648.000	735.170	773.420	734.900	648.080	600.220
<b>50</b>	754.250	708.220	621.030	583.020	634.910	724.340	763.210	724.080	634.930	585.270
<b>51</b>	745.380	696.150	605.420	566.830	619.930	714.210	753.540	713.550	621.250	569.860
<b>52</b>	734.970	685.800	592.600	551.020	605.990	701.770	744.210	702.800	607.180	552.240
<b>53</b>	725.220	675.070	578.920	535.410	592.770	691.590	734.700	692.100	594.020	536.950

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**CANDELA TABULATION - (Cont.)**

54	716.140	664.810	565.680	519.610	579.380	680.960	725.180	681.810	580.310	521.050
55	706.780	653.740	551.970	501.890	564.820	670.360	714.720	669.400	565.070	504.530
56	697.080	643.170	538.050	485.770	551.170	659.800	704.650	658.480	551.360	488.040
57	686.460	632.740	524.390	469.990	537.760	648.640	695.250	647.930	537.660	471.820
58	676.630	622.210	511.080	453.770	524.250	637.870	685.380	637.010	524.080	455.480
59	667.160	610.460	496.250	436.420	509.830	627.240	674.270	626.480	509.390	439.040
60	656.900	599.850	482.520	419.890	496.250	615.320	664.910	614.780	495.660	421.010
61	647.050	589.280	469.230	403.570	482.940	604.400	655.280	603.640	482.250	404.540
62	648.000	578.500	455.940	386.660	469.260	593.700	645.510	593.310	468.670	388.050
63	627.560	566.850	442.850	368.580	454.230	582.930	633.710	582.490	454.090	371.200
64	616.170	556.440	428.050	351.800	440.750	571.250	623.840	570.810	440.330	352.930
65	606.380	545.670	415.050	334.800	427.480	560.550	613.930	560.130	427.510	336.270
66	596.610	535.340	402.200	318.160	414.580	550.090	603.420	549.530	414.240	319.650
67	586.660	524.760	389.400	299.450	401.540	539.560	593.480	537.540	399.730	302.970
68	576.060	513.940	375.550	282.910	387.830	527.960	583.270	527.030	386.640	284.400
69	566.340	503.380	362.770	266.180	375.030	517.720	573.230	516.480	373.720	267.110
70	556.830	493.560	350.460	249.270	362.530	507.810	563.600	506.120	361.160	250.760
71	553.410	481.740	336.630	231.390	348.850	496.960	552.760	494.760	347.620	233.960
72	536.680	471.900	324.640	215.170	336.560	485.530	542.910	484.960	335.290	215.540
73	526.810	461.830	312.540	198.730	324.390	475.390	533.040	474.900	323.070	199.100
74	517.190	452.110	301.040	182.610	312.540	465.030	523.510	464.880	311.450	182.830
75	507.460	441.510	288.730	164.550	299.790	455.360	512.740	453.520	297.960	166.560
76	497.960	431.780	277.340	148.700	288.190	445.270	503.040	443.610	286.890	149.190
77	487.160	421.860	266.590	133.160	276.980	434.980	493.640	433.740	275.730	134.020
78	478.000	412.410	255.850	118.190	266.300	425.820	483.840	423.990	264.760	118.720
79	468.620	403.080	245.410	103.430	255.650	416.760	474.170	413.660	253.180	102.630
80	459.440	392.990	234.180	87.850	244.850	405.110	464.660	404.180	242.900	88.120
81	449.690	385.000	224.280	74.260	234.760	395.900	455.310	394.550	232.740	74.310
82	440.240	375.890	214.710	61.320	225.060	387.000	445.270	385.540	223.160	61.490
83	431.560	365.870	205.640	49.180	215.780	377.480	435.740	376.480	213.510	49.490
84	421.600	355.860	196.140	37.180	205.790	367.710	426.820	366.700	203.590	37.280
85	412.850	354.170	187.590	27.360	197.140	359.060	418.000	357.840	194.940	27.430
86	403.880	348.020	179.600	18.860	188.670	350.340	409.010	349.360	186.660	18.790
87	395.210	338.900	171.880	11.120	179.940	341.790	399.900	340.880	177.650	11.820
88	386.710	330.500	163.720	5.910	172.300	333.310	391.330	331.310	169.950	5.990
89	377.400	321.830	156.270	2.760	164.870	324.170	382.530	323.070	162.550	2.830
90	368.980	313.840	149.480	1.440	158.130	316.040	373.370	315.110	155.560	1.560
91	360.690	305.800	143.130	1.660	150.730	308.050	365.020	306.460	148.360	1.780
92	352.610	289.190	136.240	1.640	144.300	300.350	356.740	298.500	142.010	1.760
93	343.910	281.520	130.350	1.730	138.320	291.760	348.550	290.800	135.800	1.710
94	335.950	274.170	124.950	1.780	136.480	284.080	339.640	283.250	130.110	1.710
95	328.060	266.720	119.700	1.950	127.420	276.680	331.620	274.880	124.050	1.730
96	320.290	259.240	114.600	2.130	124.370	269.040	323.660	267.550	119.020	1.860
97	311.790	252.350	109.980	2.470	119.780	262.000	316.010	260.580	114.180	2.100
98	304.140	245.540	105.610	2.830	115.280	254.920	308.120	253.500	109.520	2.520
99	296.810	238.820	101.450	3.150	107.630	248.080	300.500	246.120	104.950	2.740
100	289.530	231.760	97.010	3.760	103.210	241.460	293.150	239.380	100.720	3.180
101	281.910	225.460	93.320	4.280	99.110	234.710	284.890	232.930	96.790	3.570
102	274.850	219.350	89.950	4.640	95.080	227.780	277.830	226.510	93.030	3.810
103	267.940	213.310	86.720	5.200	90.000	221.470	270.700	219.930	89.750	4.350
104	261.000	207.450	83.640	5.620	84.890	215.220	263.930	213.660	86.310	4.910
105	254.160	200.930	80.470	6.160	81.060	209.430	257.190	207.720	83.570	5.400
106	246.880	195.330	77.860	6.740	79.130	203.030	249.880	201.880	80.350	5.890
107	240.450	190.010	75.440	7.330	77.460	197.240	243.310	195.510	77.510	6.720
108	234.320	184.810	72.800	7.870	74.920	191.690	236.910	190.110	73.730	7.280
109	228.040	179.380	69.650	8.480	71.210	186.200	230.630	184.900	69.960	7.740

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**CANDELA TABULATION - (Cont.)**

110	221.350	174.080	66.150	8.890	66.810	180.700	223.940	179.280	65.860	8.310
111	215.290	169.290	63.170	9.310	63.170	175.450	217.830	174.130	62.830	8.790
112	209.430	164.500	60.830	9.770	60.120	170.370	211.820	169.100	60.240	9.260
113	203.880	159.230	58.340	10.410	57.430	169.320	205.250	163.750	58.610	9.650
114	197.780	154.640	56.770	10.850	56.360	159.230	199.590	158.980	57.090	10.260
115	192.430	150.240	55.330	11.340	55.500	157.620	194.040	154.460	55.820	10.680
116	187.200	145.820	54.090	11.650	54.890	152.220	188.350	149.950	54.380	11.140
117	181.900	139.810	53.010	12.240	54.180	141.080	182.950	144.520	52.840	11.550
118	176.110	133.060	51.890	12.700	53.400	133.360	177.620	138.780	51.720	12.020
119	171.130	126.130	51.030	13.340	52.300	126.200	172.810	132.840	50.790	12.580
120	165.850	121.090	49.980	13.780	51.400	121.580	166.390	127.500	50.030	13.050
121	159.890	116.400	48.960	14.360	50.420	117.820	160.670	123.200	49.420	13.630
122	153.710	112.230	48.030	15.020	49.420	113.990	154.290	119.070	48.610	14.190
123	147.530	109.220	47.150	15.340	48.490	110.830	147.820	115.670	48.050	14.240
124	142.810	106.220	46.420	15.830	47.590	107.930	143.060	112.030	46.980	14.710
125	138.590	103.330	45.660	16.070	46.780	104.970	138.610	108.860	46.270	15.070
126	134.650	100.210	44.880	16.470	45.730	101.800	134.210	105.830	45.660	15.510
127	130.520	97.570	44.140	16.980	45.000	98.520	130.110	102.550	45.000	15.880
128	126.180	94.830	43.460	17.220	44.190	95.760	126.150	99.600	44.410	16.170
129	122.410	92.340	42.730	17.610	43.460	92.980	122.340	96.760	43.870	16.440
130	118.920	90.000	42.040	17.830	42.820	90.630	118.210	94.100	43.290	16.760
131	115.040	87.530	41.630	17.960	42.360	88.340	114.520	91.190	42.820	16.880
132	111.540	85.160	40.990	18.270	41.820	86.090	111.100	88.600	42.290	17.270
133	108.070	83.010	40.550	18.570	41.260	84.060	107.610	86.040	41.820	17.520
134	104.730	80.910	40.110	18.910	40.870	82.250	104.040	83.640	41.330	17.830
135	101.620	78.440	39.430	19.010	40.310	79.960	100.970	81.200	40.480	18.130
136	98.250	76.510	39.060	19.200	39.430	77.830	97.760	78.980	39.720	18.320
137	95.200	74.580	38.740	19.420	38.450	75.730	94.340	76.800	38.940	18.710
138	92.240	72.510	38.450	19.570	37.550	73.870	91.390	74.480	38.180	18.880
139	89.480	70.450	37.840	19.760	36.840	72.020	88.560	72.580	37.500	19.200
140	86.380	68.550	37.520	20.010	35.980	69.820	85.620	70.620	36.860	19.420
141	83.790	66.790	37.400	20.150	35.370	67.860	83.180	68.650	36.330	19.470
142	81.150	65.180	37.280	20.450	34.620	65.960	80.300	66.350	35.810	19.860
143	78.510	63.440	37.130	20.620	34.010	64.130	77.680	64.440	35.280	20.080
144	76.070	61.780	36.910	20.860	33.390	62.150	75.270	62.100	34.760	20.320
145	73.630	60.360	36.720	20.960	33.080	60.710	72.900	60.070	34.420	20.520
146	71.330	58.800	36.550	21.130	32.830	59.310	70.580	58.070	34.370	20.790
147	69.130	57.330	36.450	21.400	32.730	57.990	68.550	56.210	33.910	21.380
148	66.980	55.670	36.350	21.620	32.610	56.650	66.420	54.790	33.810	21.520
149	64.660	54.530	36.060	21.840	32.470	54.820	64.030	53.350	33.590	21.600
150	62.760	53.110	35.860	22.010	32.390	53.430	62.000	51.890	33.320	21.770
151	60.900	51.860	35.740	22.080	32.340	52.180	60.170	49.930	33.250	22.300
152	59.120	50.590	35.760	22.280	32.270	50.270	58.390	48.100	33.000	22.690
153	57.680	49.470	35.420	22.550	32.080	48.560	56.680	46.370	32.810	23.040
154	55.700	48.390	35.420	22.990	31.860	46.510	54.990	44.880	32.730	23.400
155	53.960	47.270	35.180	23.310	31.730	44.730	53.350	43.510	32.390	23.990
156	52.380	46.220	34.810	23.940	31.420	42.950	51.790	42.070	32.080	24.770
157	50.890	45.120	34.710	24.330	30.610	41.380	50.230	40.550	31.680	25.190
158	49.570	44.170	34.350	24.720	29.680	39.970	48.710	38.840	31.240	25.750
159	48.170	43.290	34.080	25.160	28.780	38.670	47.470	37.450	30.730	26.430
160	46.810	42.460	33.960	25.580	28.190	37.350	46.370	36.550	30.460	26.870
161	45.510	41.680	33.640	26.160	27.800	36.080	45.290	35.760	30.390	27.530
162	44.410	40.870	33.440	26.630	27.600	35.080	44.120	34.790	30.460	28.240
163	43.040	40.140	33.200	27.120	27.480	34.270	43.000	34.100	30.190	28.750
164	42.090	39.500	32.860	27.460	27.380	33.470	41.650	33.640	30.270	29.460
165	41.310	38.520	32.710	28.020	27.340	32.690	40.650	33.050	30.240	30.290

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**CANDELA TABULATION - (Cont.)**

166	40.230	37.620	32.490	28.480	27.260	31.780	39.790	32.370	30.290	30.490
167	40.260	36.840	32.050	29.020	27.580	30.950	38.700	32.120	30.610	31.020
168	39.260	35.940	31.860	29.610	28.040	30.190	37.740	31.710	30.610	31.710
169	38.110	35.230	31.560	30.390	28.260	29.290	37.060	31.200	30.930	32.250
170	36.890	34.540	33.490	30.980	28.530	27.730	36.180	30.020	31.000	32.640
171	36.080	33.790	34.130	31.460	28.340	26.650	34.660	29.290	30.710	33.270
172	34.520	32.980	34.570	32.150	28.730	25.330	33.590	28.560	30.830	33.980
173	33.740	32.420	35.420	32.760	29.240	25.310	33.640	28.850	30.930	34.300
174	32.830	31.710	35.960	33.200	29.830	25.750	33.320	29.020	31.220	34.790
175	31.880	34.880	36.500	33.690	30.660	26.310	33.250	29.170	31.610	35.200
176	34.270	35.790	36.450	34.130	31.640	27.580	32.370	29.750	32.000	35.620
177	34.010	36.520	36.500	34.710	32.610	28.920	30.340	30.560	32.950	35.940
178	33.220	36.550	36.420	35.060	33.490	30.930	28.950	31.730	33.690	36.230
179	31.660	35.740	36.080	35.470	34.370	32.590	28.290	33.130	34.590	35.720
180	32.455	32.455	32.455	32.455	32.455	32.455	32.455	32.455	32.455	32.455

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

	<u>300</u>	<u>330</u>	<u>360</u>
0	1035.847	1035.847	1035.847
1	1034.400	1034.860	1036.330
2	1033.640	1034.370	1036.060
3	1032.490	1032.660	1035.570
4	1031.710	1031.080	1034.690
5	1029.320	1029.370	1033.080
6	1027.290	1027.190	1031.780
7	1024.700	1025.850	1029.610
8	1020.910	1023.580	1046.880
9	1017.440	1020.380	1049.930
10	1013.710	1017.300	1047.220
11	1009.870	1013.680	1043.920
12	1005.500	1009.940	1040.900
13	1001.590	1005.280	1036.790
14	994.630	1002.000	1032.570
15	988.840	996.220	1028.460
16	983.320	991.350	1024.260
17	977.550	986.370	1019.300
18	970.470	981.140	1014.780
19	963.850	975.080	1010.460
20	956.910	969.390	1005.250
21	949.240	962.990	999.950
22	941.740	956.790	992.820
23	931.870	950.170	971.400
24	923.560	943.640	957.810
25	914.790	936.360	951.730
26	905.630	928.400	946.400
27	895.810	920.700	939.200
28	887.090	913.600	932.480
29	877.470	906.050	925.880
30	867.400	898.080	919.190
31	855.920	889.780	911.640
32	845.120	881.420	905.050
33	834.570	873.240	898.080
34	823.820	863.610	890.460
35	812.750	855.060	882.080
36	799.680	846.070	874.120

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

37	788.030	837.080	867.130
38	776.060	828.090	859.050
39	764.210	818.050	851.060
40	752.000	808.670	842.870
41	740.030	799.590	834.840
42	727.840	789.450	826.650
43	713.690	779.800	818.100
44	700.820	769.710	808.180
45	687.730	759.740	799.730
46	674.970	748.310	790.770
47	662.200	738.290	782.070
48	647.860	727.910	773.080
49	634.790	718.120	763.600
50	621.670	707.240	754.250
51	608.600	696.740	745.380
52	593.990	686.500	734.970
53	580.920	676.050	725.220
54	567.490	665.590	716.140
55	554.290	654.060	706.780
56	538.730	643.560	697.080
57	525.540	632.660	686.460
58	512.330	622.160	676.630
59	498.550	610.310	667.160
60	484.450	600.440	656.900
61	471.280	589.280	647.050
62	457.920	578.800	648.000
63	444.630	567.560	627.560
64	429.800	557.130	616.170
65	416.860	546.550	606.380
66	404.100	534.730	596.610
67	391.110	524.470	586.660
68	377.110	513.910	576.060
69	364.510	503.680	566.340
70	352.410	493.590	556.830
71	340.050	482.640	553.410
72	327.010	472.580	536.680
73	315.160	462.490	526.810
74	303.580	452.890	517.190
75	292.020	441.800	507.460
76	279.640	431.980	497.960
77	268.790	422.500	487.160
78	258.210	412.070	478.000
79	247.660	402.860	468.620
80	236.790	393.260	459.440
81	226.950	383.930	449.690
82	217.610	374.300	440.240
83	208.450	365.380	431.560
84	198.530	356.740	421.600
85	190.060	348.060	412.850
86	186.030	339.490	403.880
87	174.010	330.010	395.210
88	165.850	321.880	386.710
89	158.720	313.910	377.400
90	151.830	305.260	368.980
91	148.040	297.740	360.690
92	141.490	289.920	352.610

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>93</b>	134.730	282.250	343.910
<b>94</b>	126.960	274.190	335.950
<b>95</b>	121.560	267.030	328.060
<b>96</b>	115.960	259.920	320.290
<b>97</b>	112.280	253.040	311.790
<b>98</b>	108.780	245.390	304.140
<b>99</b>	104.530	238.920	296.810
<b>100</b>	100.600	232.150	289.530
<b>101</b>	96.890	225.360	281.910
<b>102</b>	93.390	219.370	274.850
<b>103</b>	89.580	213.460	267.940
<b>104</b>	86.430	207.480	261.000
<b>105</b>	81.520	201.640	254.160
<b>106</b>	78.880	195.480	246.880
<b>107</b>	75.560	189.980	240.450
<b>108</b>	72.290	184.590	234.320
<b>109</b>	68.690	179.410	228.040
<b>110</b>	65.100	174.110	221.350
<b>111</b>	62.320	169.150	215.290
<b>112</b>	60.340	164.260	209.430
<b>113</b>	58.560	159.160	203.880
<b>114</b>	57.260	154.830	197.780
<b>115</b>	56.720	150.210	192.430
<b>116</b>	55.650	145.210	187.200
<b>117</b>	54.530	140.030	181.900
<b>118</b>	53.280	134.510	176.110
<b>119</b>	51.280	128.620	171.130
<b>120</b>	50.180	123.780	165.850
<b>121</b>	49.270	119.750	159.890
<b>122</b>	48.470	115.960	153.710
<b>123</b>	47.760	112.450	147.530
<b>124</b>	46.850	109.250	142.810
<b>125</b>	46.150	106.410	138.590
<b>126</b>	45.630	103.310	134.650
<b>127</b>	44.850	100.230	130.520
<b>128</b>	44.340	97.570	126.180
<b>129</b>	43.580	94.740	122.410
<b>130</b>	43.070	92.020	118.920
<b>131</b>	42.630	89.410	115.040
<b>132</b>	41.970	87.090	111.540
<b>133</b>	41.460	84.670	108.070
<b>134</b>	40.920	82.030	104.730
<b>135</b>	40.360	79.830	101.620
<b>136</b>	39.890	77.710	98.250
<b>137</b>	39.450	75.410	95.200
<b>138</b>	39.180	73.340	92.240
<b>139</b>	38.940	71.430	89.480
<b>140</b>	38.520	69.500	86.380
<b>141</b>	38.160	67.620	83.790
<b>142</b>	37.820	65.620	81.150
<b>143</b>	37.670	63.930	78.510
<b>144</b>	37.330	62.370	76.070
<b>145</b>	37.130	60.730	73.630
<b>146</b>	36.690	59.120	71.330
<b>147</b>	36.740	57.680	69.130
<b>148</b>	36.470	56.160	66.980

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>149</b>	37.210	54.650	64.660
<b>150</b>	36.790	53.210	62.760
<b>151</b>	36.550	52.010	60.900
<b>152</b>	36.420	50.710	59.120
<b>153</b>	36.150	49.470	57.680
<b>154</b>	35.200	48.220	55.700
<b>155</b>	34.860	47.030	53.960
<b>156</b>	34.620	46.000	52.380
<b>157</b>	34.320	45.120	50.890
<b>158</b>	33.930	44.090	49.570
<b>159</b>	33.760	43.140	48.170
<b>160</b>	33.350	42.380	46.810
<b>161</b>	32.930	41.550	45.510
<b>162</b>	32.690	40.630	44.410
<b>163</b>	32.340	39.890	43.040
<b>164</b>	32.100	39.060	42.090
<b>165</b>	31.900	38.330	41.310
<b>166</b>	31.590	37.520	40.230
<b>167</b>	31.220	36.590	40.260
<b>168</b>	30.980	35.810	39.260
<b>169</b>	30.490	34.930	38.110
<b>170</b>	33.000	34.130	36.890
<b>171</b>	33.810	33.540	36.080
<b>172</b>	34.470	32.860	34.520
<b>173</b>	35.350	32.370	33.740
<b>174</b>	35.890	31.510	32.830
<b>175</b>	35.940	34.840	31.880
<b>176</b>	36.330	35.720	34.270
<b>177</b>	36.060	36.280	34.010
<b>178</b>	35.790	35.810	33.220
<b>179</b>	35.400	35.300	31.660
<b>180</b>	32.455	32.455	32.455



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LSBR96-LED65DMV50.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	380.82	9.00	9.00
0-30	811.23	19.20	19.20
0-40	1337.82	31.70	31.70
0-60	2448.07	58.00	58.00
0-80	3308.21	78.30	78.30
0-90	3589.4	85.00	85.00
10-90	3491.26	82.70	82.70
20-40	957.01	22.70	22.70
20-50	1521.8	36.00	36.00
40-70	1588.79	37.60	37.60
60-80	860.13	20.40	20.40
70-80	381.59	9.00	9.00
80-90	281.19	6.70	6.70
90-110	353.04	8.40	8.40
90-120	455.93	10.80	10.80
90-130	525.00	12.40	12.40
90-150	601.89	14.30	14.30
90-180	632.97	15.00	15.00
110-180	279.93	6.60	6.60
0-180	4222.36	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	98.13
10-20	282.68
20-30	430.42
30-40	526.59
40-50	564.79
50-60	545.45
60-70	478.54
70-80	381.59
80-90	281.19
90-100	205.07
100-110	147.97
110-120	102.89
120-130	69.07
130-140	46.70
140-150	30.19
150-160	18.33
160-170	9.65
170-180	3.10

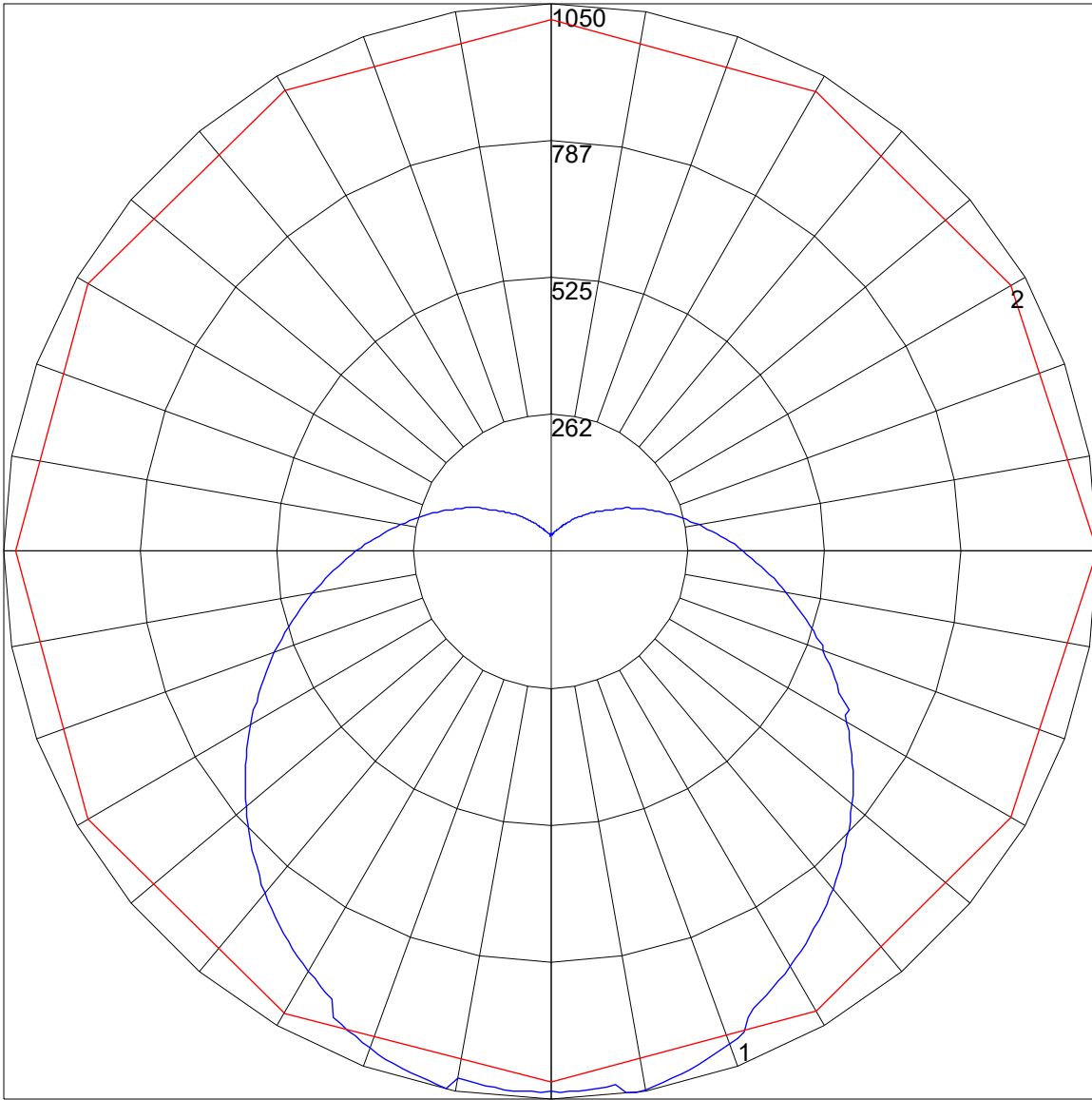
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LSBR96-LED65DMV50.IES**

**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	115	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	103	97	92	87	87	98	93	89	84	86	82	79	80	77	74	74	71	69	66
2	93	83	76	69	69	88	80	73	67	74	68	63	68	64	60	63	59	56	53
3	84	72	64	56	56	80	70	62	55	64	58	52	60	54	49	55	51	47	44
4	76	64	54	47	47	73	61	53	46	57	50	44	53	47	42	49	44	39	37
5	70	57	47	40	40	67	55	46	39	51	43	38	47	41	36	44	38	34	31
6	65	51	42	35	35	62	49	40	34	46	38	33	43	36	31	40	34	30	27
7	60	46	37	31	31	57	44	36	30	41	34	29	39	32	27	36	30	26	24
8	56	42	33	27	27	53	40	32	27	38	31	25	35	29	24	33	28	23	21
9	52	38	30	24	24	50	37	29	24	35	28	23	33	26	22	31	25	21	19
10	49	35	27	22	22	46	34	27	21	32	25	21	30	24	20	28	23	19	17

POLAR GRAPH



Maximum Candela = 1049.93 Located At Horizontal Angle = 0, Vertical Angle = 9  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (9) (Through Max. Cd.)