



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSBR48-LED23DMV50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [ISSUE DATE] 2018-10-23 14:17
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT]
 [LUMINAIRE] LSBR48-LED23DMV50
 [LAMPCAT] KM-33-M1-GW-PLUS
 [LAMP] DIM35W12S-500
 [VOLTAGE] 121.1 V
 [CURRENT] 0.183 A
 [POWERFACTOR] 0.984
 [TESTLAB]
 [TESTINST] GPM-1800B
 [TESTDIST] 11.952 m

CHARACTERISTICS

Lumens Per Lamp	2742.2 (1 lamp)
Total Lamp Lumens	2742.2
Luminaire Lumens	2742
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	21.86
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.44
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>
0	660.177	660.177	660.177	660.177	660.177	660.177	660.177	660.177	660.177	660.177
1	660.050	660.050	659.630	659.440	659.850	660.440	660.370	660.760	659.900	659.630
2	659.900	659.460	658.510	658.260	660.290	660.120	660.370	659.660	659.460	659.170
3	659.290	658.800	657.820	658.510	659.880	660.240	660.830	659.410	659.000	658.780
4	657.380	657.210	656.800	657.700	658.900	660.270	659.830	659.290	659.020	657.800
5	657.090	656.140	655.970	656.510	657.970	659.490	659.490	659.000	656.600	655.230
6	655.850	654.700	654.160	655.550	656.870	658.340	658.240	658.950	654.840	653.790
7	654.310	653.090	652.790	653.770	655.210	657.700	657.580	656.580	655.090	652.180
8	652.790	651.380	650.760	651.940	653.920	656.550	656.820	655.920	652.280	649.980
9	649.790	649.710	648.860	649.590	652.110	655.500	655.940	654.400	650.400	647.610
10	648.810	647.080	646.560	647.440	650.540	654.890	654.210	652.550	648.420	645.610
11	647.370	645.220	643.340	644.930	648.370	652.060	652.400	650.760	646.100	642.340
12	645.710	643.580	640.530	641.970	645.460	650.060	650.790	649.450	643.510	639.310
13	643.510	640.360	637.450	638.940	643.510	648.660	648.440	646.150	640.380	636.030
14	640.970	637.870	634.250	635.130	640.480	646.510	646.590	643.730	637.080	632.300
15	638.450	634.740	631.220	630.460	637.010	644.270	644.900	641.480	633.810	628.490
16	637.260	632.030	626.360	626.850	632.590	640.330	642.920	638.820	630.270	624.600
17	632.740	628.530	622.160	622.790	629.390	637.870	640.500	635.860	627.210	620.330
18	629.580	625.410	618.350	618.370	625.280	635.130	637.550	633.690	621.890	615.240
19	627.290	622.080	614.100	613.610	621.250	632.320	634.890	630.630	617.270	609.800
20	624.550	618.570	609.870	608.840	617.080	628.560	632.250	627.210	613.440	605.300
21	621.060	614.190	605.130	604.470	612.610	625.900	629.900	623.600	609.260	599.660
22	617.690	611.040	599.730	599.240	607.570	622.040	626.290	619.960	604.570	594.190
23	614.440	606.720	594.800	592.130	603.490	618.840	623.160	615.930	599.320	588.470
24	611.040	602.740	589.180	586.420	598.140	615.150	618.910	611.800	594.060	583.020
25	607.990	598.830	583.360	579.850	592.530	610.040	616.560	607.550	588.690	576.820
26	604.280	594.770	577.870	574.890	587.080	606.080	613.270	603.450	583.050	570.830
27	600.290	589.860	572.150	568.410	581.360	602.270	608.970	598.850	577.140	564.090
28	596.920	585.220	565.210	561.260	576.110	597.800	605.350	594.770	570.910	556.350
29	592.600	579.990	560.110	554.470	569.980	593.500	601.250	590.200	564.870	549.700
30	587.370	574.720	553.070	547.160	563.310	587.660	597.660	585.320	558.640	542.670
31	583.460	570.170	546.350	540.520	557.080	583.490	593.580	579.870	551.850	535.070
32	579.040	565.210	540.170	532.700	550.700	578.600	589.230	575.230	545.380	527.280
33	574.960	559.960	533.240	525.660	544.300	573.940	585.340	570.320	538.950	519.650
34	570.730	554.660	526.420	517.990	537.170	568.730	580.380	565.630	532.280	512.570
35	566.020	548.850	519.240	510.660	530.500	563.750	575.910	560.250	525.370	504.410
36	561.330	543.620	511.760	501.580	524.150	558.740	571.080	553.930	517.410	496.100
37	556.150	538.220	503.700	493.120	516.230	553.190	566.920	548.550	510.470	487.820
38	551.630	531.990	496.500	485.110	508.510	546.350	562.140	542.200	503.240	479.710
39	546.600	526.470	489.040	476.760	501.650	540.660	556.880	537.880	495.640	471.190
40	542.010	520.000	481.130	468.130	493.610	535.070	551.880	530.840	486.430	462.270
41	536.460	514.180	473.190	459.140	486.110	529.470	547.010	525.570	479.790	452.250
42	530.960	508.120	464.880	450.130	478.760	523.640	542.060	519.680	471.770	443.950
43	525.470	501.650	457.750	441.210	470.230	518.020	536.270	513.110	463.960	435.030
44	519.580	495.440	449.840	432.000	462.610	511.790	531.380	506.120	455.920	426.040
45	514.600	489.190	441.920	422.260	454.970	505.510	525.610	500.820	447.470	415.900
46	508.540	482.600	432.050	412.970	446.020	498.740	520.920	495.010	439.480	406.280
47	503.510	476.320	424.940	403.520	438.230	492.710	513.960	488.560	431.120	397.660
48	498.080	470.330	415.900	394.160	429.760	486.700	508.640	481.130	421.600	387.980
49	492.540	463.520	406.940	383.390	421.600	480.420	502.940	474.260	413.970	377.040
50	486.630	457.560	399.440	373.930	413.710	474.170	497.330	468.450	405.640	367.510
51	479.760	449.620	390.400	364.260	404.350	466.790	491.710	462.120	397.340	357.690
52	473.830	442.970	381.610	354.320	395.850	460.140	486.330	455.380	387.790	347.650
53	468.010	436.060	373.130	344.300	387.370	453.210	479.740	448.740	379.460	337.020

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CANDELA TABULATION - (Cont.)

54	462.420	429.730	364.510	333.800	378.600	447.050	474.440	441.870	370.930	326.960
55	456.480	422.720	355.270	323.340	369.880	440.770	467.840	434.470	362.480	317.260
56	450.150	416.100	346.990	313.110	361.620	434.050	461.680	427.730	353.120	306.800
57	444.120	409.700	338.710	302.990	353.100	427.530	455.260	421.010	344.770	295.350
58	438.310	402.320	328.840	291.270	344.520	420.720	449.370	414.340	336.190	284.840
59	432.080	396.120	320.390	280.860	335.310	412.700	442.950	407.960	327.450	274.460
60	426.260	389.640	311.890	270.580	326.760	406.450	436.840	400.640	319.190	264.050
61	419.810	382.780	303.460	259.000	318.430	399.810	430.730	394.190	309.520	252.420
62	413.830	375.210	294.710	248.390	309.960	393.280	424.530	387.470	301.110	241.870
63	407.450	368.580	285.790	237.740	300.790	385.830	417.740	380.410	292.660	231.440
64	400.980	362.060	277.390	227.140	292.440	379.280	411.820	373.230	284.300	220.840
65	395.020	355.810	269.180	216.320	283.960	372.080	405.420	366.190	275.220	209.260
66	388.930	348.820	260.930	205.520	275.730	365.630	398.970	359.550	267.030	198.630
67	382.920	342.420	251.690	193.580	266.860	359.620	392.160	352.970	258.730	188.030
68	376.180	335.730	243.650	183.050	258.460	351.920	385.810	345.890	249.660	177.180
69	370.150	329.350	235.590	172.130	250.150	345.330	379.260	339.690	241.240	166.460
70	364.510	323.170	227.900	160.450	242.480	338.850	373.030	332.210	233.320	155.000
71	357.400	315.870	219.370	149.850	233.740	331.230	366.700	325.910	225.330	144.350
72	351.730	309.710	211.730	139.150	226.090	324.490	360.500	319.290	216.930	132.820
73	345.620	303.730	204.150	128.770	218.270	318.140	354.070	312.690	209.260	122.440
74	339.610	296.640	196.700	117.380	210.430	311.890	347.800	305.780	201.760	112.200
75	333.680	290.610	189.100	107.050	202.570	304.800	340.860	299.910	194.060	102.060
76	327.690	284.110	181.730	96.960	194.940	298.640	334.680	292.390	186.490	92.150
77	321.880	278.420	174.810	86.820	187.810	291.980	328.890	286.190	179.190	81.520
78	316.230	272.800	168.320	76.120	180.900	285.840	322.760	280.150	172.350	71.850
79	310.440	266.370	161.650	66.860	173.980	279.390	315.430	273.210	165.460	62.660
80	304.020	260.540	154.540	57.680	166.480	272.850	309.540	267.450	158.280	53.770
81	298.380	254.790	148.360	48.880	159.910	266.420	303.580	261.510	151.730	44.440
82	292.980	249.370	142.320	40.670	153.560	260.490	297.670	255.280	145.620	36.550
83	287.040	244.000	136.220	32.080	147.400	254.790	291.800	249.320	139.590	29.050
84	280.980	237.960	130.940	25.140	140.910	248.270	284.940	242.920	133.330	22.180
85	275.780	232.610	125.370	18.740	135.120	242.680	279.490	237.010	127.620	15.810
86	270.360	227.020	120.340	12.480	129.990	236.840	273.310	231.460	122.150	10.700
87	264.860	221.470	114.940	7.890	123.810	231.200	267.180	225.870	116.840	6.520
88	259.340	216.200	110.080	4.280	118.630	225.240	261.240	219.760	111.350	3.250
89	253.920	211.020	105.530	2.130	113.570	219.690	255.600	214.460	106.660	1.510
90	248.570	206.210	101.260	0.830	108.860	214.020	250.030	208.990	101.990	0.930
91	243.530	200.340	96.740	0.760	104.310	208.790	244.240	203.470	97.280	0.930
92	237.470	195.480	92.780	0.810	99.470	202.690	238.890	198.220	93.030	1.030
93	232.490	190.820	89.020	1.000	95.400	197.560	233.490	193.160	89.070	0.980
94	227.410	186.340	85.480	1.000	91.410	192.430	227.730	188.100	85.280	1.030
95	222.330	181.090	81.790	1.070	87.750	187.420	222.040	182.530	81.540	1.030
96	217.320	176.790	78.490	1.150	83.940	182.240	216.980	177.600	77.930	1.250
97	212.290	172.180	75.460	1.290	80.350	177.530	211.750	173.130	74.750	1.340
98	207.550	167.880	72.730	1.440	77.150	172.760	206.450	168.290	71.720	1.660
99	202.860	163.160	69.620	1.560	74.040	168.220	201.170	163.630	68.820	1.610
100	197.360	159.030	66.910	1.830	70.800	162.840	196.190	159.250	65.740	1.910
101	193.010	154.930	64.610	2.080	68.080	158.350	191.280	154.880	63.220	2.130
102	188.590	150.820	62.120	2.420	65.420	153.850	186.080	150.410	60.930	2.220
103	184.150	146.770	59.850	2.660	63.100	149.800	181.170	146.210	58.410	2.610
104	179.750	142.520	57.630	2.960	60.730	145.600	176.500	141.880	56.280	2.740
105	174.910	138.630	55.670	3.300	58.460	141.100	172.000	137.900	54.310	2.930
106	170.730	134.820	53.870	3.490	56.090	137.240	166.970	134.090	52.300	3.320
107	166.360	131.040	52.300	3.660	53.790	133.260	162.550	129.620	49.980	3.690
108	162.360	127.620	50.230	4.080	51.080	129.350	158.150	126.050	47.860	3.880
109	157.740	124.340	48.050	4.350	47.830	125.470	154.000	122.540	45.170	4.150

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CANDELA TABULATION - (Cont.)

110	154.120	120.800	45.800	4.590	45.320	121.660	149.550	118.720	42.650	4.640
111	150.240	117.410	43.580	4.910	43.310	118.110	145.500	115.300	40.550	4.760
112	146.400	114.300	41.410	5.150	41.770	114.870	141.520	111.960	39.230	4.890
113	142.570	110.880	39.940	5.370	40.280	111.180	136.920	108.560	38.160	5.080
114	138.320	107.610	38.920	5.740	39.400	107.610	133.040	105.070	37.080	5.330
115	134.630	104.820	37.790	5.890	38.350	104.090	129.330	102.110	36.130	5.590
116	130.960	101.360	36.940	6.010	37.400	100.700	125.740	98.690	35.320	5.890
117	127.350	97.520	35.910	6.280	36.400	97.230	121.780	94.880	34.440	6.080
118	123.590	93.120	35.150	6.420	35.230	92.710	118.070	91.000	33.810	6.230
119	120.140	89.260	34.420	6.670	34.540	88.340	114.550	86.700	33.220	6.600
120	116.090	86.260	33.490	6.940	33.610	83.940	110.640	83.300	32.390	6.940
121	111.790	82.960	32.930	7.300	33.000	80.030	106.660	80.050	31.760	7.080
122	106.850	80.520	32.050	7.600	32.540	76.980	102.210	77.420	30.880	7.450
123	103.140	77.980	31.370	7.940	32.000	75.000	98.200	75.170	30.540	7.620
124	99.960	75.780	30.680	8.330	30.980	72.700	94.420	72.530	29.750	7.650
125	96.930	73.730	30.070	8.650	29.630	70.770	91.440	70.160	28.950	7.870
126	93.780	71.260	29.460	8.720	27.950	68.790	88.700	67.890	28.070	8.130
127	91.000	69.330	28.880	8.720	27.190	67.030	85.770	65.300	27.560	8.380
128	88.160	67.080	28.340	8.990	27.020	65.230	82.890	63.100	26.990	8.400
129	85.620	65.030	27.850	9.160	27.140	63.100	80.320	61.050	26.870	8.620
130	82.840	63.150	27.240	9.380	27.430	61.370	77.880	59.460	26.850	8.750
131	80.100	61.240	26.850	9.600	27.340	59.530	75.140	57.700	26.680	8.820
132	77.810	59.510	26.330	9.670	27.090	57.680	72.820	55.970	26.410	9.160
133	75.460	57.630	25.850	9.770	26.730	55.940	70.380	54.350	26.140	9.140
134	72.750	55.770	25.360	9.990	26.460	54.650	68.130	52.690	25.530	9.330
135	70.210	54.060	24.940	10.140	26.140	52.860	65.710	50.910	24.920	9.380
136	67.810	52.400	24.580	10.260	25.770	51.350	63.590	49.350	24.280	9.450
137	65.670	50.910	24.180	10.260	25.110	49.640	61.100	48.170	23.670	9.600
138	63.560	49.400	23.920	10.430	24.430	48.100	58.530	46.780	23.210	9.720
139	61.410	47.710	23.480	10.550	23.740	46.490	56.210	45.410	22.600	9.990
140	59.140	46.290	23.040	10.680	23.350	44.580	53.720	44.340	22.130	10.040
141	57.260	44.800	22.740	10.850	22.840	42.970	51.790	42.730	21.670	10.240
142	55.110	43.430	22.430	11.020	22.520	41.410	49.740	41.190	21.160	10.210
143	53.430	42.070	22.180	11.240	21.940	40.190	47.910	39.620	20.670	10.600
144	51.250	40.750	21.860	11.260	21.470	38.990	46.240	37.940	20.520	10.650
145	49.570	39.430	21.570	11.410	21.160	37.430	45.050	36.640	20.350	10.700
146	47.810	38.230	21.130	11.530	20.740	36.300	43.580	35.590	20.180	10.870
147	46.120	37.010	20.760	11.730	20.640	35.150	42.780	34.590	20.180	11.020
148	44.530	35.740	20.450	11.850	20.540	34.640	41.070	34.080	19.910	11.090
149	42.560	34.620	20.080	11.950	20.350	34.130	39.570	33.540	19.810	11.190
150	41.040	33.390	19.810	12.140	20.200	33.570	38.330	32.540	19.710	11.310
151	39.500	32.490	19.470	12.310	20.150	32.540	37.300	31.290	19.740	11.600
152	38.130	31.390	19.200	12.630	20.080	31.710	35.540	30.220	19.640	11.870
153	36.690	30.510	18.860	12.870	19.840	30.490	34.010	28.970	19.640	12.210
154	35.320	29.410	18.660	13.050	19.810	29.440	32.490	27.750	19.520	12.410
155	34.150	28.460	18.490	13.460	19.690	28.020	31.900	26.550	19.370	12.730
156	33.030	27.600	18.130	13.730	19.670	26.950	31.270	25.480	19.350	13.170
157	31.640	26.730	17.880	14.020	19.420	25.750	30.680	24.310	18.960	13.530
158	30.490	25.890	17.470	14.220	19.130	24.870	30.070	23.450	18.690	13.920
159	29.270	25.040	17.150	14.660	18.880	23.790	29.170	22.470	18.370	14.240
160	28.310	24.260	16.810	14.930	18.610	22.940	28.390	21.890	18.180	14.580
161	27.070	23.380	16.860	15.270	18.540	21.820	27.580	21.420	18.220	14.900
162	25.940	22.670	16.560	15.540	18.400	21.200	26.750	21.060	18.180	15.170
163	25.110	21.840	16.540	15.950	18.250	20.740	26.210	20.690	18.150	15.510
164	24.010	21.080	16.540	16.100	18.220	20.520	25.650	20.350	18.100	15.950
165	22.990	20.280	16.710	16.290	18.100	20.010	24.890	20.010	18.180	16.150

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CANDELA TABULATION - (Cont.)

166	22.080	19.520	16.950	16.690	17.980	19.790	24.330	19.710	18.150	16.440
167	21.110	18.860	16.780	17.050	18.180	19.420	23.820	19.520	18.100	16.780
168	20.250	18.100	17.200	17.300	18.320	19.050	23.400	19.230	18.250	16.930
169	19.370	17.470	18.100	17.520	18.420	18.740	22.960	18.760	18.370	17.220
170	18.440	17.050	18.590	17.710	18.370	18.270	22.300	18.050	18.570	17.660
171	17.740	16.950	18.860	18.050	18.400	17.560	21.740	17.560	18.440	17.880
172	17.220	16.880	19.030	18.150	18.490	17.000	21.380	17.000	18.540	18.030
173	17.220	17.030	19.350	18.320	18.490	16.980	20.890	17.000	18.710	18.250
174	17.170	18.400	19.640	18.470	18.610	17.080	20.470	17.150	18.860	18.590
175	17.320	19.080	20.250	18.660	18.790	17.320	20.180	17.520	19.320	18.790
176	17.200	19.350	20.520	18.860	19.010	17.590	19.760	17.760	19.200	18.860
177	16.150	19.710	20.300	18.930	19.130	18.030	19.570	18.180	19.100	18.880
178	15.710	19.960	20.030	19.010	19.270	18.150	18.960	18.400	19.030	19.010
179	14.800	19.200	19.620	19.250	18.860	18.000	18.180	18.200	18.980	19.080
180	17.678	17.678	17.678	17.678	17.678	17.678	17.678	17.678	17.678	17.678

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	660.177	660.177	660.177
1	659.610	660.220	660.050
2	659.340	659.020	659.900
3	658.440	658.190	659.290
4	656.160	656.700	657.380
5	654.920	655.230	657.090
6	653.350	653.990	655.850
7	651.450	653.280	654.310
8	650.030	650.960	652.790
9	647.760	648.660	649.790
10	645.390	646.730	648.810
11	642.510	644.680	647.370
12	639.110	642.730	645.710
13	636.620	640.190	643.510
14	632.150	636.840	640.970
15	628.850	634.100	638.450
16	625.110	630.950	637.260
17	620.350	626.780	632.740
18	615.900	623.970	629.580
19	611.560	621.010	627.290
20	606.940	617.470	624.550
21	602.000	613.710	621.060
22	597.630	609.820	617.690
23	592.060	605.330	614.440
24	586.320	601.200	611.040
25	580.870	597.140	607.990
26	575.180	592.430	604.280
27	568.370	587.540	600.290
28	562.430	582.800	596.920
29	556.420	578.720	592.600
30	549.580	573.250	587.370
31	543.370	568.510	583.460
32	536.560	563.020	579.040
33	529.670	558.230	574.960
34	522.900	553.320	570.730
35	515.600	547.530	566.020
36	507.630	541.520	561.330

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CANDELA TABULATION - (Cont.)

37	500.650	535.950	556.150
38	493.320	530.300	551.630
39	485.450	524.910	546.600
40	477.370	518.210	542.010
41	469.820	512.370	536.460
42	461.850	506.100	530.960
43	453.840	499.890	525.470
44	445.930	493.760	519.580
45	437.520	487.430	514.600
46	429.630	481.400	508.540
47	421.180	474.310	503.510
48	412.040	468.060	498.080
49	404.540	461.270	492.540
50	395.380	455.190	486.630
51	387.050	448.100	479.760
52	378.260	441.970	473.830
53	370.080	435.810	468.010
54	361.890	429.460	462.420
55	352.070	422.080	456.480
56	343.840	414.560	450.150
57	335.430	408.330	444.120
58	326.640	401.860	438.310
59	318.580	395.360	432.080
60	309.470	388.250	426.260
61	301.160	381.430	419.810
62	292.560	375.160	413.830
63	284.350	368.290	407.450
64	275.680	361.570	400.980
65	267.790	355.370	395.020
66	259.560	348.600	388.930
67	251.500	342.320	382.920
68	242.730	335.120	376.180
69	234.860	328.590	370.150
70	227.170	322.610	364.510
71	218.760	316.140	357.400
72	211.160	309.390	351.730
73	204.060	303.600	345.620
74	196.920	297.420	339.610
75	189.300	290.510	333.680
76	182.460	285.010	327.690
77	175.470	279.540	321.880
78	169.000	273.560	316.230
79	162.360	266.840	310.440
80	156.000	261.000	304.020
81	150.120	255.230	298.380
82	144.520	249.880	292.980
83	138.980	243.850	287.040
84	132.750	238.820	280.980
85	127.620	233.250	275.780
86	122.730	228.190	270.360
87	117.850	223.040	264.860
88	112.620	217.220	259.340
89	108.240	212.340	253.920
90	104.020	207.300	248.570
91	99.670	201.910	243.530
92	95.520	197.390	237.470

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CANDELA TABULATION - (Cont.)

93	91.660	192.400	232.490
94	88.160	187.760	227.410
95	84.430	182.780	222.330
96	81.370	178.310	217.320
97	78.420	173.840	212.290
98	75.390	169.440	207.550
99	72.360	164.800	202.860
100	69.740	160.690	197.360
101	67.400	156.540	193.010
102	64.740	152.170	188.590
103	62.710	148.280	184.150
104	60.730	144.350	179.750
105	58.680	140.610	174.910
106	56.850	136.390	170.730
107	54.210	132.770	166.360
108	51.670	129.350	162.360
109	48.810	125.740	157.740
110	46.240	122.100	154.120
111	44.310	118.850	150.240
112	42.850	115.720	146.400
113	41.720	112.250	142.570
114	40.500	109.220	138.320
115	39.550	105.850	134.630
116	38.570	102.990	130.960
117	37.500	98.520	127.350
118	36.640	94.340	123.590
119	35.890	90.510	120.140
120	35.100	87.140	116.090
121	34.270	84.080	111.790
122	33.570	81.400	106.850
123	32.810	79.200	103.140
124	31.950	76.830	99.960
125	31.510	74.660	96.930
126	30.780	72.580	93.780
127	30.070	70.160	91.000
128	29.680	68.250	88.160
129	29.000	66.320	85.620
130	28.390	64.390	82.840
131	27.820	62.390	80.100
132	27.580	60.540	77.810
133	27.040	58.700	75.460
134	26.330	56.940	72.750
135	25.800	55.110	70.210
136	25.280	53.520	67.810
137	24.870	51.960	65.670
138	24.580	50.250	63.560
139	24.110	48.760	61.410
140	23.720	47.270	59.140
141	23.400	45.900	57.260
142	23.060	44.290	55.110
143	22.620	42.920	53.430
144	22.250	41.650	51.250
145	21.910	40.280	49.570
146	21.640	38.870	47.810
147	21.280	37.650	46.120
148	20.810	36.570	44.530

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CANDELA TABULATION - (Cont.)

149	20.450	35.450	42.560
150	20.200	34.350	41.040
151	19.860	33.080	39.500
152	19.490	31.980	38.130
153	19.300	31.100	36.690
154	19.130	30.100	35.320
155	18.660	28.970	34.150
156	18.300	28.140	33.030
157	17.980	27.140	31.640
158	17.470	26.290	30.490
159	17.320	25.410	29.270
160	16.980	24.600	28.310
161	16.690	23.700	27.070
162	16.640	22.820	25.940
163	16.470	21.990	25.110
164	16.470	21.350	24.010
165	16.540	20.620	22.990
166	16.610	19.840	22.080
167	16.690	19.050	21.110
168	16.980	18.300	20.250
169	17.590	17.690	19.370
170	18.200	17.200	18.440
171	18.490	17.150	17.740
172	18.690	17.270	17.220
173	19.230	17.200	17.220
174	19.690	18.660	17.170
175	20.200	19.350	17.320
176	20.590	19.640	17.200
177	20.280	20.110	16.150
178	19.960	20.450	15.710
179	19.590	19.860	14.800
180	17.678	17.678	17.678

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	241.91	8.80	8.80
0-30	516.34	18.80	18.80
0-40	853.65	31.10	31.10
0-60	1569.17	57.20	57.20
0-80	2131.7	77.70	77.70
0-90	2319.25	84.60	84.60
10-90	2256.78	82.30	82.30
20-40	611.74	22.30	22.30
20-50	974.82	35.50	35.50
40-70	1027.03	37.50	37.50
60-80	562.53	20.50	20.50
70-80	251.02	9.20	9.20
80-90	187.54	6.80	6.80
90-110	239.12	8.70	8.70
90-120	309.07	11.30	11.30
90-130	355.37	13.00	13.00
90-150	404.76	14.80	14.80
90-180	422.99	15.40	15.40
110-180	183.87	6.70	6.70
0-180	2742.24	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.46
10-20	179.45
20-30	274.43
30-40	337.31
40-50	363.08
50-60	352.44
60-70	311.51
70-80	251.02
80-90	187.54
90-100	138.45
100-110	100.67
110-120	69.95
120-130	46.30
130-140	30.54
140-150	18.85
150-160	10.95
160-170	5.53
170-180	1.76

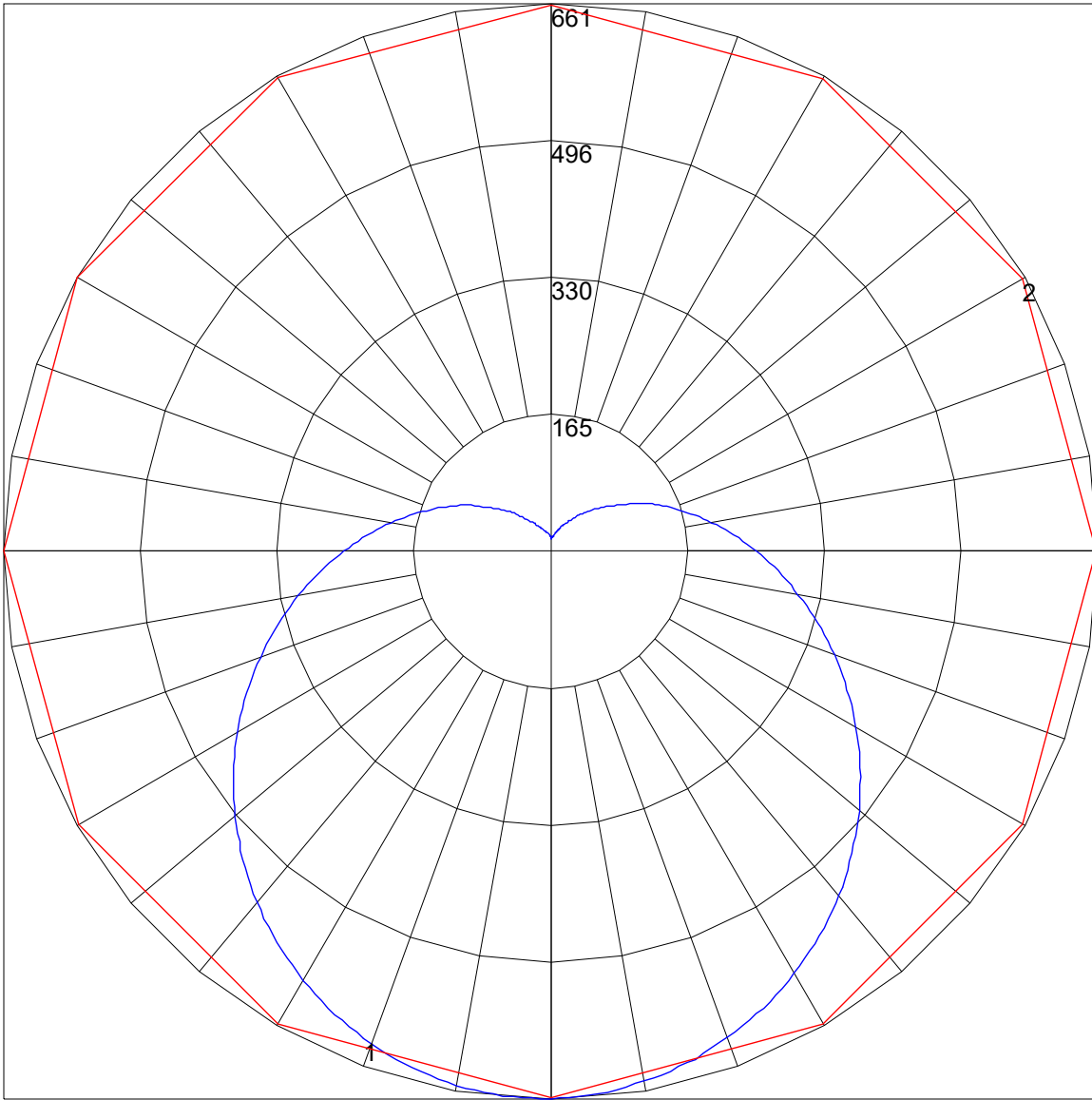
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	103	97	92	87	98	93	88	84	86	82	78	79	76	73	73	71	68	65
2	92	83	75	69	88	80	73	67	74	68	63	68	63	59	63	59	56	52
3	84	72	63	56	80	69	61	55	64	57	52	59	54	49	55	50	46	43
4	76	63	54	47	73	61	52	46	57	49	43	52	46	41	48	43	39	36
5	70	56	47	40	67	54	46	39	50	43	37	47	40	35	43	38	34	31
6	64	51	41	35	61	49	40	34	45	38	32	42	36	31	39	34	29	27
7	60	46	37	30	57	44	36	30	41	34	28	38	32	27	36	30	26	24
8	55	41	33	27	53	40	32	26	38	30	25	35	29	24	33	27	23	21
9	52	38	30	24	49	37	29	23	34	27	23	32	26	22	30	25	21	19
10	48	35	27	22	46	34	26	21	32	25	20	30	24	20	28	23	19	17

POLAR GRAPH



Maximum Candela = 660.83 Located At Horizontal Angle = 180, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)