



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSBR48-LED23DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [ISSUEDATE] 2018-10-25 19:58
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT]
 [LUMINAIRE] LSBR48-LED23DMV40
 [LAMPCAT] KM-35-L2-GW-PLUS
 [LAMP] DIM35W12S-500
 [VOLTAGE] 121.2 V
 [CURRENT] 0.181 A
 [POWERFACTOR] 0.983
 [TESTLAB]
 [TESTINST] GPM-1800B
 [TESTDIST] 11.952 m

CHARACTERISTICS

Lumens Per Lamp	2815.2 (1 lamp)
Total Lamp Lumens	2815.2
Luminaire Lumens	2815
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	21.5
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.40
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	738.645	738.645	738.645	738.645	738.645	738.645	738.645	738.645	738.645	738.645
1	739.390	739.050	739.490	737.460	740.590	738.860	739.320	738.760	738.640	738.660
2	739.420	738.390	738.590	738.880	733.090	738.560	738.680	738.270	737.680	738.150
3	739.120	737.980	737.730	738.440	738.340	737.440	737.950	737.630	737.630	737.680
4	739.220	737.390	737.490	737.120	736.970	737.150	737.800	737.320	736.440	736.460
5	737.460	736.780	735.580	735.610	735.750	736.390	736.800	736.240	735.700	734.460
6	736.880	735.000	733.870	733.110	734.190	735.530	736.290	735.410	733.820	732.550
7	735.530	733.970	731.840	731.180	731.140	733.210	734.170	734.070	731.700	729.520
8	734.410	732.820	730.450	728.420	729.010	732.310	732.160	732.240	729.230	726.930
9	733.310	731.060	727.910	726.080	727.150	729.650	731.840	729.960	725.320	724.120
10	732.410	729.230	724.740	722.460	724.610	727.980	728.550	726.790	721.930	720.460
11	729.330	726.150	720.730	718.950	722.240	725.980	726.670	725.030	719.560	717.380
12	727.590	723.830	717.110	714.520	718.700	723.660	724.880	722.270	716.410	713.400
13	725.180	720.780	712.590	710.620	714.720	720.920	722.830	719.580	712.080	708.510
14	722.190	718.090	709.740	706.630	710.980	718.630	719.900	716.480	708.250	703.870
15	720.560	715.480	705.580	701.600	706.630	715.750	716.940	713.840	704.260	698.960
16	718.770	712.110	701.140	696.450	701.870	712.670	714.870	710.760	699.450	694.570
17	716.450	709.300	696.370	691.340	697.160	707.070	712.350	706.490	694.830	688.820
18	714.060	705.490	691.560	686.380	691.780	704.730	709.130	702.720	688.560	682.520
19	711.300	701.450	686.310	680.030	687.430	700.820	706.580	698.940	683.180	676.200
20	706.630	696.840	681.080	673.650	682.400	697.590	703.070	694.760	678.000	670.550
21	703.260	693.320	673.750	666.450	675.980	693.080	699.430	689.850	671.870	663.930
22	700.010	688.600	667.550	659.440	669.820	689.360	696.320	685.720	665.470	657.160
23	697.080	684.310	661.590	652.080	663.710	684.720	690.970	680.760	658.020	647.910
24	693.660	679.300	654.650	645.100	657.780	680.540	688.600	675.880	651.670	641.680
25	689.830	674.360	647.860	637.570	650.980	675.340	683.740	670.410	645.020	634.200
26	685.720	669.350	641.360	629.760	644.170	670.210	679.080	665.690	638.010	627.510
27	681.760	664.570	633.910	622.160	637.500	664.840	675.710	660.830	630.540	618.100
28	676.980	659.410	625.870	613.780	630.540	659.630	670.970	654.600	622.670	610.070
29	673.210	654.010	618.540	605.130	621.280	654.110	666.280	649.200	615.290	601.640
30	668.790	647.320	611.190	596.340	613.970	647.590	661.810	643.310	607.700	591.600
31	664.320	642.460	603.400	587.540	606.910	642.360	655.670	635.890	598.100	582.830
32	659.170	636.450	595.730	578.280	598.880	635.960	650.520	629.730	589.940	574.110
33	652.520	628.900	586.100	569.610	590.740	630.490	644.630	623.870	581.530	564.680
34	648.150	622.570	577.500	558.590	582.170	624.360	639.230	616.780	572.840	555.470
35	643.310	616.730	568.950	549.290	573.570	617.880	633.570	610.260	564.190	545.770
36	638.110	610.070	560.250	539.420	565.310	611.460	627.070	603.150	555.200	535.340
37	632.170	603.150	551.630	530.130	556.740	604.130	621.010	595.630	546.450	525.640
38	625.770	596.360	542.790	519.920	547.110	596.530	615.320	589.910	537.440	515.330
39	620.620	589.280	532.770	509.690	537.880	589.230	609.280	581.650	527.860	505.220
40	614.710	582.220	524.320	499.600	528.960	582.000	602.030	573.620	517.990	494.320
41	608.450	575.080	514.910	489.140	519.920	573.840	595.430	566.360	508.690	484.670
42	600.390	566.700	503.800	478.810	509.960	567.120	588.200	559.180	499.520	473.780
43	594.280	559.940	494.100	466.470	500.110	560.060	580.530	550.140	488.120	462.000
44	587.520	552.220	484.990	456.020	490.830	551.440	573.690	542.740	478.660	451.030
45	581.090	544.160	475.580	446.460	481.500	543.690	566.680	534.650	469.010	440.430
46	574.010	535.800	464.860	433.930	471.410	536.140	559.030	526.420	459.220	429.680
47	566.830	527.320	454.840	423.280	461.830	527.980	551.460	517.900	450.200	418.760
48	559.620	519.850	445.100	412.410	452.470	519.900	544.230	510.050	438.960	407.520
49	552.610	511.620	435.350	401.440	442.750	511.980	536.630	502.040	429.190	396.750
50	545.010	502.990	425.430	390.200	431.220	502.900	528.770	493.980	419.150	386.050
51	536.680	495.010	414.730	378.410	421.600	493.810	521.140	485.400	409.190	374.520
52	529.330	486.330	404.450	367.050	412.020	485.840	511.790	475.140	397.880	361.990
53	521.360	477.930	394.650	355.880	401.930	477.610	503.680	467.080	388.010	351.240

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CANDELA TABULATION - (Cont.)

54	513.520	469.750	384.730	344.600	392.040	469.280	495.760	458.650	378.040	339.910
55	504.750	459.750	373.280	331.870	381.750	459.920	486.970	450.470	367.190	327.840
56	496.200	451.200	362.990	320.850	371.910	451.590	478.930	440.750	356.790	316.750
57	488.340	442.780	353.120	309.660	362.430	443.410	470.720	431.930	346.990	305.440
58	479.200	433.570	342.810	298.470	351.410	435.080	462.250	423.870	337.580	294.150
59	471.310	425.190	332.820	286.750	341.910	425.460	453.770	415.460	327.350	282.620
60	462.930	416.760	323.170	275.360	332.260	417.030	445.780	405.810	316.870	270.870
61	454.770	407.990	313.350	264.100	322.850	408.890	437.210	397.530	307.220	259.700
62	446.220	398.410	303.290	252.400	313.400	400.170	429.290	389.370	297.720	248.320
63	436.960	390.280	292.420	240.210	302.970	391.330	420.910	380.850	288.160	237.210
64	427.900	381.680	282.960	229.020	293.510	382.780	411.240	371.150	277.270	224.890
65	419.250	372.840	273.140	217.610	284.380	374.400	402.860	363.330	267.960	213.900
66	410.630	364.160	263.490	206.450	275.440	366.090	395.290	355.320	258.850	202.830
67	402.000	354.510	253.430	195.550	265.710	358.300	387.350	346.620	249.860	190.790
68	393.750	346.450	244.440	183.580	256.870	349.480	378.920	338.440	240.500	179.800
69	385.490	338.100	235.450	172.490	248.390	341.300	371.150	330.330	231.540	168.760
70	377.450	329.790	226.460	161.770	239.720	333.480	363.310	322.610	222.790	157.960
71	367.780	320.900	216.950	149.820	229.950	324.730	355.420	314.870	214.120	147.330
72	359.470	313.030	208.380	139.100	221.960	316.940	346.720	306.660	205.080	135.560
73	351.340	305.000	199.780	128.640	213.950	309.390	339.150	298.500	196.870	125.080
74	343.250	297.110	191.690	118.110	205.420	301.330	331.750	291.070	188.740	114.770
75	334.210	288.240	182.390	106.900	197.660	294.130	324.080	283.400	180.800	103.550
76	326.050	280.540	174.670	96.670	190.110	286.600	316.380	276.000	172.420	93.540
77	318.040	273.120	166.920	86.750	182.530	281.350	309.320	268.990	165.040	84.080
78	310.150	265.670	159.400	77.100	175.500	274.040	302.110	261.830	157.910	74.510
79	302.160	257.430	152.220	67.740	167.680	266.620	295.220	254.890	150.310	64.590
80	294.810	250.400	144.770	57.970	161.060	258.830	287.650	247.470	143.520	55.820
81	287.410	243.530	137.900	49.420	154.540	251.640	281.080	240.920	137.140	47.270
82	280.230	236.300	131.280	41.160	148.260	244.710	274.090	234.150	130.990	39.260
83	271.680	229.140	124.490	33.710	143.150	238.160	267.450	228.000	124.930	31.760
84	264.660	222.520	118.310	26.110	136.800	231.120	260.360	221.230	118.330	24.400
85	257.920	215.980	112.470	19.910	130.570	225.110	253.870	215.220	112.940	18.270
86	251.060	209.310	106.930	14.410	124.440	219.010	247.440	209.160	107.560	13.090
87	243.730	202.710	100.990	9.480	118.940	212.970	241.510	203.540	102.460	8.890
88	236.910	196.530	95.710	6.130	114.110	206.940	234.980	197.460	97.150	5.370
89	230.590	190.550	90.920	3.860	109.370	201.170	229.240	191.840	92.610	3.300
90	224.310	184.760	86.330	2.540	104.900	195.850	223.330	186.640	88.460	2.170
91	217.860	178.800	81.540	1.910	100.040	190.420	216.830	180.240	84.040	1.610
92	211.650	173.350	77.610	1.860	95.930	184.220	210.990	175.330	80.030	1.640
93	205.670	167.900	73.900	1.830	91.850	179.110	205.890	170.320	76.410	1.610
94	200.120	162.720	70.180	1.860	88.190	174.060	200.460	165.380	73.070	1.690
95	193.530	156.930	66.250	1.810	84.230	169.100	194.650	160.550	69.430	1.930
96	188.300	152.120	62.930	1.980	80.880	164.140	189.640	155.660	66.350	2.030
97	182.730	147.260	60.100	1.930	77.460	159.230	184.560	150.920	63.560	2.150
98	177.500	142.450	57.330	2.000	73.800	154.730	179.580	146.820	60.610	2.420
99	172.100	137.710	54.820	1.910	69.960	150.480	174.470	142.470	58.020	2.690
100	167.290	133.530	52.030	2.030	66.810	145.550	169.710	138.050	55.800	2.860
101	162.450	129.400	49.860	2.130	64.930	141.420	165.240	134.120	53.550	3.150
102	157.470	124.730	47.690	2.220	62.810	137.290	160.960	129.960	51.250	3.220
103	152.930	120.870	45.710	2.590	60.390	133.260	155.980	125.660	48.830	3.640
104	147.920	116.770	43.700	2.690	57.820	129.280	151.780	121.830	46.440	3.810
105	143.670	113.060	41.850	2.710	55.820	125.220	147.720	118.380	44.270	4.150
106	139.640	109.660	40.090	2.980	53.740	121.390	143.590	114.720	42.190	4.420
107	135.460	105.920	38.600	3.150	51.740	117.770	139.390	111.250	40.580	4.760
108	130.890	102.020	37.010	3.270	49.710	114.010	135.680	107.830	38.820	5.030
109	126.980	99.130	35.130	3.540	47.370	110.270	131.870	104.680	36.840	5.470

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CANDELA TABULATION - (Cont.)

110	123.290	96.050	33.320	3.760	45.050	106.440	127.910	101.260	34.980	5.690
111	119.900	92.850	31.590	4.080	42.920	103.020	124.250	98.130	33.320	5.720
112	116.040	89.950	30.100	4.180	40.970	99.400	120.950	95.300	32.470	6.030
113	112.520	86.850	28.970	4.300	39.230	95.660	117.500	92.630	31.590	6.230
114	109.200	84.160	28.120	4.540	38.180	92.900	114.110	89.630	30.800	6.380
115	105.850	81.570	27.580	4.790	37.280	90.140	110.590	87.040	30.070	6.500
116	102.040	78.050	26.970	5.130	36.280	87.650	107.070	84.040	29.360	6.840
117	98.960	74.530	26.430	5.370	35.280	84.740	104.020	80.370	28.730	6.940
118	96.010	71.230	25.890	5.470	34.350	81.230	101.060	77.020	28.260	7.280
119	93.100	68.380	25.410	5.910	33.490	77.810	98.200	73.560	27.650	7.570
120	89.730	65.620	25.090	6.380	32.540	74.660	94.690	70.820	27.090	7.820
121	85.990	63.220	24.600	6.570	31.730	71.920	90.880	67.840	26.550	7.990
122	82.300	61.490	24.140	6.770	30.880	69.400	87.020	65.470	26.110	8.310
123	79.490	59.630	24.140	7.230	30.340	67.570	83.940	62.640	25.630	8.550
124	76.880	57.700	23.620	7.430	29.930	65.490	81.370	60.140	25.140	8.790
125	74.610	56.060	23.400	7.840	29.580	63.690	78.880	57.770	24.670	8.970
126	72.190	54.310	23.210	8.090	28.900	61.510	76.540	55.890	24.500	9.060
127	69.890	52.790	22.910	8.400	28.090	59.750	74.290	54.450	24.060	9.430
128	67.910	51.330	22.960	8.550	27.530	57.920	71.850	52.740	23.650	9.450
129	65.790	49.710	22.740	8.920	27.020	56.360	69.770	51.350	23.430	9.480
130	63.490	48.300	22.450	9.280	26.550	54.920	67.600	50.320	23.130	9.750
131	61.590	47.100	22.280	9.230	26.020	53.060	65.540	49.320	22.990	9.650
132	59.700	45.730	22.030	9.380	25.410	51.570	63.320	48.170	22.650	9.920
133	57.990	44.490	21.840	9.550	24.990	49.790	61.290	47.000	22.350	10.140
134	56.090	43.210	21.820	9.870	24.550	47.980	59.460	45.460	21.570	10.090
135	54.450	42.040	21.640	9.890	24.140	46.460	57.580	44.340	21.080	10.240
136	52.910	41.090	21.600	10.140	23.840	44.950	55.430	42.920	20.740	10.460
137	51.230	39.870	21.420	10.280	22.960	43.580	53.040	41.680	20.180	10.480
138	49.690	38.890	21.300	10.460	22.450	42.070	50.100	40.530	19.520	10.580
139	47.780	37.690	21.080	10.630	21.860	41.070	47.730	39.280	19.150	10.850
140	46.540	36.740	21.300	10.770	21.200	40.110	46.120	38.160	18.610	10.870
141	45.100	35.810	21.130	10.970	20.720	39.400	44.830	37.060	18.200	11.210
142	43.830	35.130	21.200	11.120	20.180	38.230	44.070	36.150	17.830	11.260
143	42.430	34.180	21.110	11.290	19.710	37.080	43.260	34.790	17.540	11.360
144	41.190	33.250	21.080	11.310	19.150	35.890	41.940	33.880	17.270	11.510
145	39.870	32.440	21.060	11.190	18.790	34.880	40.410	33.000	17.170	11.480
146	38.770	31.830	21.080	11.360	18.300	33.830	38.790	32.150	16.980	11.730
147	37.570	31.050	20.940	11.580	18.030	32.950	37.470	31.070	16.830	12.090
148	36.500	30.440	20.940	11.820	17.610	31.780	36.300	30.240	16.880	12.090
149	35.370	29.680	20.910	11.950	17.490	30.830	35.520	29.120	16.560	12.140
150	34.350	29.070	20.890	12.210	17.370	29.850	34.370	28.040	16.290	12.430
151	33.420	28.530	20.790	12.430	17.150	28.970	33.270	26.530	16.170	12.700
152	32.490	27.800	20.810	12.580	17.050	28.310	32.100	25.530	16.100	12.970
153	31.680	27.460	20.840	13.020	16.900	27.340	31.100	24.480	16.170	13.120
154	30.800	26.820	20.910	13.260	16.560	26.240	30.020	23.430	15.950	13.480
155	30.150	26.410	20.980	13.560	16.320	25.040	29.020	22.450	15.780	13.880
156	29.310	25.970	21.060	13.900	16.440	24.060	28.140	21.350	15.340	14.390
157	28.730	25.550	21.110	14.170	16.170	22.820	26.950	20.370	14.950	14.660
158	28.070	25.210	21.130	14.540	15.760	21.790	25.970	19.620	14.850	15.150
159	27.510	24.920	21.030	14.900	15.610	21.060	24.840	19.010	14.730	15.320
160	26.750	24.480	21.060	15.370	15.370	20.080	23.720	18.740	14.610	15.680
161	26.040	23.890	20.980	15.810	15.070	19.130	22.940	18.250	14.390	15.950
162	25.580	23.620	21.030	16.070	15.050	18.320	22.280	17.780	14.440	16.220
163	25.090	23.060	20.980	16.540	14.800	17.540	21.840	17.440	14.270	16.590
164	24.720	22.870	21.180	16.640	14.610	16.880	21.450	17.080	14.240	16.980
165	24.260	22.570	21.130	17.050	14.440	16.420	20.810	16.760	14.270	17.320

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CANDELA TABULATION - (Cont.)

166	23.890	22.330	21.080	17.390	14.220	16.050	20.280	16.390	14.170	17.710
167	23.550	22.030	21.160	17.560	14.220	15.660	19.520	15.950	14.390	17.980
168	23.180	21.790	21.200	18.030	14.120	15.220	18.830	15.590	14.290	18.300
169	22.670	21.470	21.010	18.220	14.240	14.900	18.270	15.150	14.120	18.640
170	22.380	21.400	20.790	18.830	14.140	14.490	17.810	14.710	13.970	19.100
171	21.960	21.420	20.470	19.180	14.290	13.850	17.270	14.220	14.270	19.050
172	21.820	21.420	20.030	19.270	14.610	13.240	16.690	13.920	15.240	19.420
173	21.790	21.420	19.760	19.640	15.680	13.050	16.370	14.070	16.760	19.740
174	21.890	21.200	19.570	19.890	17.200	13.070	16.050	13.920	17.320	19.960
175	21.470	20.640	19.470	20.030	17.780	13.900	15.590	14.560	18.030	19.960
176	20.570	20.030	19.760	20.060	18.490	16.290	16.830	16.860	18.570	20.350
177	19.540	19.520	20.060	20.180	19.080	17.610	16.760	17.780	19.050	20.400
178	18.570	19.520	20.150	20.300	19.760	18.690	16.490	18.740	19.520	20.540
179	18.180	19.890	20.720	20.320	20.400	19.540	14.320	19.620	20.180	20.690
180	19.448	19.448	19.448	19.448	19.448	19.448	19.448	19.448	19.448	19.448

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	738.645	738.645	738.645
1	739.050	739.120	739.390
2	737.730	738.150	739.420
3	736.850	737.050	739.120
4	735.700	736.730	739.220
5	734.530	735.730	737.460
6	732.430	734.600	736.880
7	730.430	733.750	735.530
8	728.350	732.090	734.410
9	726.080	729.690	733.310
10	723.270	727.590	732.410
11	720.220	725.370	729.330
12	716.450	723.290	727.590
13	713.250	719.730	725.180
14	708.420	716.990	722.190
15	704.070	714.080	720.560
16	699.650	711.670	718.770
17	694.790	707.860	716.450
18	689.510	704.850	714.060
19	685.060	700.970	711.300
20	679.570	697.400	706.630
21	673.650	693.880	703.260
22	668.130	689.120	700.010
23	660.930	684.650	697.080
24	654.580	680.400	693.660
25	648.080	675.490	689.830
26	640.990	670.230	685.720
27	632.810	664.710	681.760
28	626.020	659.730	676.980
29	618.790	653.820	673.210
30	611.530	649.300	668.790
31	604.100	644.100	664.320
32	596.240	638.430	659.170
33	588.080	632.170	652.520
34	579.600	626.040	648.150
35	571.490	618.980	643.310
36	561.310	612.120	638.110

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CANDELA TABULATION - (Cont.)

37	552.900	606.250	632.170
38	544.300	599.120	625.770
39	535.700	591.550	620.620
40	526.100	585.000	614.710
41	517.260	578.060	608.450
42	508.000	570.780	600.390
43	498.080	563.060	594.280
44	488.580	556.320	587.520
45	478.710	548.330	581.090
46	468.890	539.950	574.010
47	459.850	531.770	566.830
48	449.300	524.080	559.620
49	440.190	516.010	552.610
50	430.270	507.680	545.010
51	420.450	499.620	536.680
52	409.920	491.410	529.330
53	399.980	483.130	521.360
54	390.640	475.780	513.520
55	379.720	465.640	504.750
56	369.930	457.210	496.200
57	360.080	448.270	488.340
58	350.120	440.090	479.200
59	340.760	430.710	471.310
60	330.500	422.130	462.930
61	320.920	413.220	454.770
62	311.420	404.690	446.220
63	301.840	395.770	436.960
64	291.730	387.640	427.900
65	282.330	378.410	419.250
66	273.340	370.980	410.630
67	264.000	361.060	402.000
68	254.280	352.540	393.750
69	245.290	344.230	385.490
70	236.690	335.730	377.450
71	228.340	327.130	367.780
72	219.100	319.240	359.470
73	211.090	311.470	351.340
74	202.930	303.680	343.250
75	194.940	294.780	334.210
76	186.560	287.110	326.050
77	179.020	279.570	318.040
78	171.810	271.890	310.150
79	163.850	264.000	302.160
80	156.790	256.630	294.810
81	150.020	249.150	287.410
82	143.620	242.430	280.230
83	137.460	235.590	271.680
84	131.010	228.660	264.660
85	125.100	222.130	257.920
86	119.480	215.510	251.060
87	113.990	208.380	243.730
88	108.270	202.220	236.910
89	103.330	196.410	230.590
90	98.690	190.740	224.310
91	93.930	184.290	217.860
92	89.680	178.670	211.650

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CANDELA TABULATION - (Cont.)

93	85.570	173.400	205.670
94	81.640	168.170	200.120
95	77.440	162.330	193.530
96	74.140	157.320	188.300
97	70.650	152.530	182.730
98	67.640	147.870	177.500
99	64.390	142.930	172.100
100	61.760	138.320	167.290
101	59.220	134.160	162.450
102	56.800	129.640	157.470
103	54.330	125.740	152.930
104	52.130	121.710	147.920
105	50.130	117.850	143.670
106	48.050	113.590	139.640
107	45.410	110.080	135.460
108	43.090	106.630	130.890
109	40.550	103.240	126.980
110	38.450	99.820	123.290
111	36.840	96.840	119.900
112	35.890	93.560	116.040
113	34.930	90.340	112.520
114	33.980	87.600	109.200
115	33.150	84.890	105.850
116	32.170	82.060	102.040
117	31.370	78.540	98.960
118	30.590	75.170	96.010
119	29.900	71.800	93.100
120	29.270	68.960	89.730
121	28.730	66.450	85.990
122	28.140	64.350	82.300
123	27.750	62.390	79.490
124	27.090	60.270	76.880
125	26.700	58.700	74.610
126	26.190	57.120	72.190
127	25.720	55.550	69.890
128	25.310	53.840	67.910
129	24.990	52.280	65.790
130	24.720	50.890	63.490
131	24.480	49.180	61.590
132	24.060	47.880	59.700
133	23.840	46.630	57.990
134	23.530	45.320	56.090
135	23.260	43.920	54.450
136	23.110	42.650	52.910
137	22.820	41.770	51.230
138	22.670	40.480	49.690
139	22.550	39.530	47.780
140	22.430	38.430	46.540
141	22.110	37.330	45.100
142	21.960	36.420	43.830
143	21.890	35.250	42.430
144	21.890	34.350	41.190
145	21.770	33.570	39.870
146	21.720	32.730	38.770
147	21.600	31.830	37.570
148	21.420	31.370	36.500

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CANDELA TABULATION - (Cont.)

149	21.300	30.630	35.370
150	21.350	29.880	34.350
151	21.380	29.090	33.420
152	21.300	28.580	32.490
153	21.110	28.000	31.680
154	21.130	27.510	30.800
155	21.230	26.990	30.150
156	20.890	26.460	29.310
157	20.910	26.040	28.730
158	20.940	25.530	28.070
159	21.200	25.190	27.510
160	21.110	24.890	26.750
161	20.890	24.550	26.040
162	20.910	24.060	25.580
163	20.810	23.770	25.090
164	20.840	23.380	24.720
165	20.960	23.210	24.260
166	20.890	22.600	23.890
167	20.910	22.250	23.550
168	20.840	21.960	23.180
169	20.840	21.820	22.670
170	20.590	21.500	22.380
171	20.450	21.280	21.960
172	20.010	21.330	21.820
173	19.620	21.420	21.790
174	19.420	21.180	21.890
175	19.450	20.840	21.470
176	19.540	20.250	20.570
177	19.790	19.640	19.540
178	20.300	19.570	18.570
179	20.350	20.110	18.180
180	19.448	19.448	19.448

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	270.31	9.60	9.60
0-30	575.09	20.40	20.40
0-40	946.09	33.60	33.60
0-60	1711.44	60.80	60.80
0-80	2275.9	80.80	80.80
0-90	2450.73	87.10	87.10
10-90	2380.8	84.60	84.60
20-40	675.78	24.00	24.00
20-50	1068.77	38.00	38.00
40-70	1083.7	38.50	38.50
60-80	564.46	20.10	20.10
70-80	246.12	8.70	8.70
80-90	174.82	6.20	6.20
90-110	207.99	7.40	7.40
90-120	266.00	9.40	9.40
90-130	304.53	10.80	10.80
90-150	347.08	12.30	12.30
90-180	364.46	12.90	12.90
110-180	156.47	5.60	5.60
0-180	2815.18	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.92
10-20	200.39
20-30	304.78
30-40	370.99
40-50	392.99
50-60	372.36
60-70	318.35
70-80	246.12
80-90	174.82
90-100	122.49
100-110	85.50
110-120	58.01
120-130	38.54
130-140	25.89
140-150	16.66
150-160	10.17
160-170	5.44
170-180	1.76

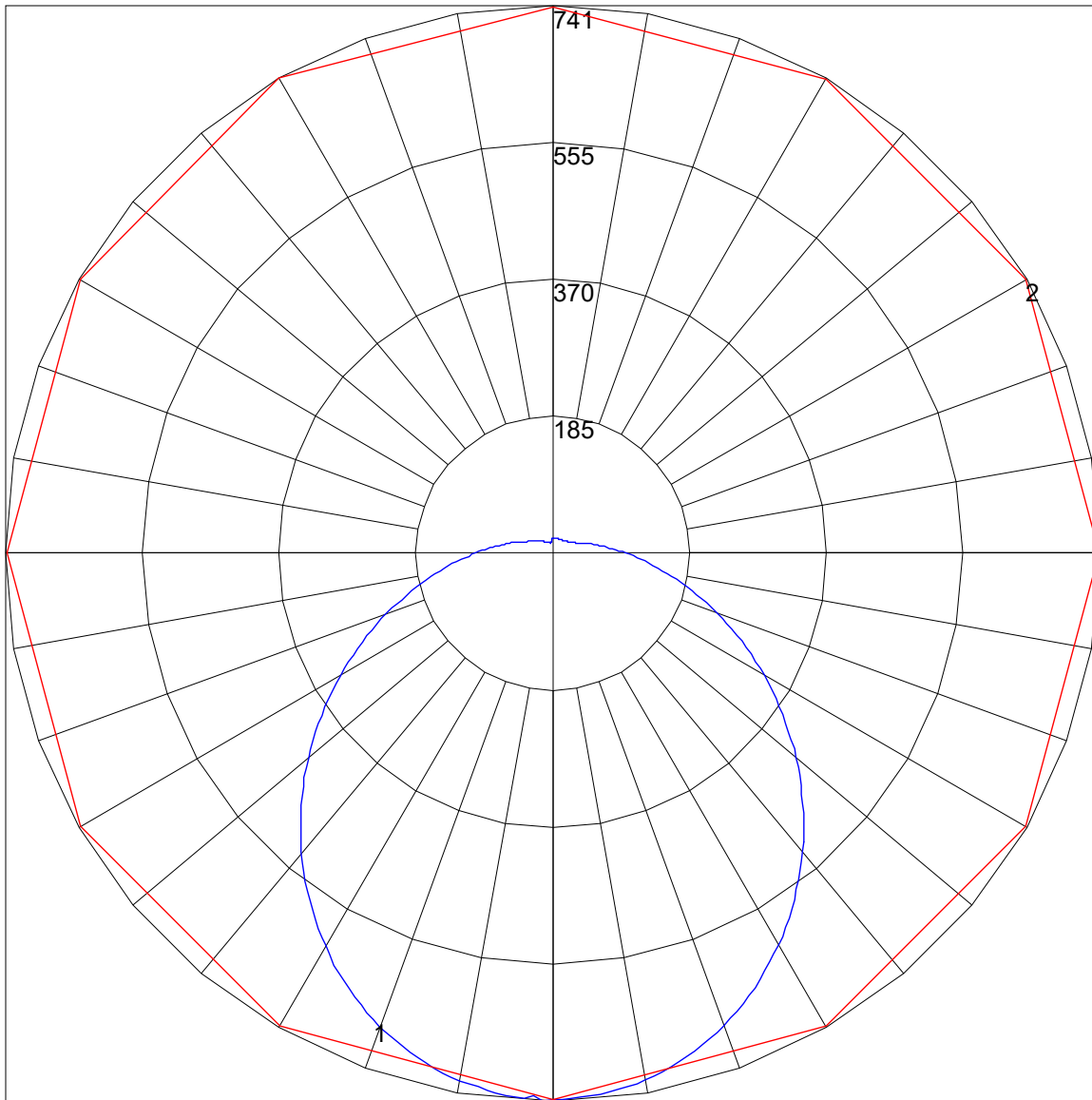
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	104	98	93	88	99	94	90	86	88	84	80	81	78	76	76	73	71	68
2	93	84	77	70	89	81	74	68	75	70	65	70	65	61	65	62	58	55
3	85	73	65	58	81	71	63	56	66	59	54	61	56	51	57	52	49	46
4	77	65	55	48	74	62	54	47	58	51	45	54	48	43	51	46	41	39
5	71	58	48	41	68	56	47	40	52	44	39	49	42	37	45	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	37	32	41	36	31	29
7	61	47	38	31	58	45	37	31	42	35	30	40	33	29	37	32	28	25
8	56	42	34	28	54	41	33	27	39	32	26	37	30	25	34	29	25	22
9	52	39	31	25	50	38	30	25	36	29	24	34	27	23	32	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	29	24	20	18

POLAR GRAPH



Maximum Candela = 740.59 Located At Horizontal Angle = 120, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (120 - 300) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)