



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MPL240WT40120V_TYPE V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [ISSUEDATE] 2017-12-26 15:11
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] MPL240WT40120_TYPE V
 [LAMPCAT]
 [LAMP] LED
 [TESTLAB] BEGHELLI
 [TESTINST]
 [TESTDIST] 17.398 m

CHARACTERISTICS

Lumens Per Lamp	27948.4 (1 lamp)
Total Lamp Lumens	27948.4
Luminaire Lumens	27943
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	231.37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.26
Spacing Criterion (90-270)	2.12
Spacing Criterion (Diagonal)	2.40
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>0.0</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>	<u>202.5</u>
0	2855.17	2855.17	2855.17	2855.17	2855.17	2855.17	2855.17	2855.17	2855.17	2855.17
1	2857.75	2846.79	2870.25	2856.19	2844.29	2843.75	2782.90	2814.27	2854.74	2848.62
2	2860.86	2848.19	2869.98	2852.67	2838.61	2835.09	2781.82	2811.02	2855.92	2851.30
3	2865.37	2851.62	2869.71	2856.46	2838.61	2832.66	2774.51	2814.27	2858.50	2855.92
4	2871.49	2855.92	2868.63	2860.79	2842.40	2834.55	2778.30	2812.65	2862.58	2862.15
5	2879.01	2862.15	2879.72	2857.27	2836.99	2835.63	2777.49	2815.89	2868.38	2871.38
6	2888.89	2869.34	2883.77	2861.60	2840.77	2843.75	2780.46	2819.14	2876.54	2881.16
7	2900.27	2879.01	2891.62	2872.15	2846.45	2842.40	2793.72	2825.63	2885.56	2892.54
8	2912.62	2891.57	2898.65	2875.66	2855.92	2853.48	2795.88	2831.04	2896.41	2906.61
9	2927.44	2905.00	2911.63	2889.72	2871.06	2861.60	2808.32	2841.31	2908.87	2922.50
10	2944.41	2919.82	2926.78	2904.60	2880.80	2871.33	2825.09	2852.40	2922.72	2941.83
11	2962.67	2935.82	2937.59	2914.88	2894.59	2885.94	2828.33	2865.11	2938.61	2961.27
12	2981.46	2953.65	2954.09	2934.35	2910.01	2901.62	2846.72	2880.53	2957.08	2982.32
13	3004.12	2972.98	2973.56	2948.14	2924.07	2913.79	2860.25	2900.54	2976.42	3004.88
14	3027.54	2996.28	2991.41	2971.67	2943.00	2932.73	2879.45	2914.33	2998.32	3029.25
15	3052.67	3019.37	3013.59	2990.87	2965.45	2949.49	2904.60	2935.97	3021.74	3054.49
16	3081.02	3045.26	3034.95	3019.27	2983.57	2967.61	2923.26	2962.47	3047.51	3085.21
17	3110.23	3072.00	3063.35	3039.01	3011.97	3001.96	2944.35	2982.49	3075.75	3116.13
18	3144.92	3099.70	3087.42	3065.24	3036.58	3020.35	2965.45	3005.20	3103.57	3148.35
19	3176.38	3129.56	3117.17	3089.58	3065.51	3052.26	2991.14	3039.01	3132.35	3184.44
20	3212.14	3164.03	3143.94	3119.87	3089.85	3081.20	3024.95	3059.84	3163.28	3221.06
21	3255.32	3198.51	3182.35	3153.95	3123.93	3105.27	3054.70	3096.08	3196.57	3264.34
22	3296.02	3234.59	3222.91	3186.13	3153.95	3139.89	3083.36	3129.88	3232.55	3306.44
23	3337.58	3276.15	3257.80	3222.64	3188.30	3174.50	3125.01	3160.71	3274.76	3349.07
24	3380.97	3315.67	3291.61	3258.07	3228.05	3212.37	3160.44	3193.17	3314.60	3392.46
25	3428.65	3356.48	3329.74	3294.04	3274.03	3256.72	3196.14	3232.11	3355.62	3441.32
26	3477.94	3405.67	3367.60	3336.50	3308.65	3295.39	3237.79	3271.32	3399.44	3490.51
27	3528.96	3453.89	3410.88	3383.83	3356.24	3335.15	3280.25	3311.08	3450.56	3541.95
28	3580.08	3504.36	3460.10	3425.21	3398.71	3376.26	3322.44	3348.67	3499.10	3594.68
29	3627.76	3550.86	3501.47	3476.59	3449.01	3430.35	3366.25	3396.27	3548.07	3651.39
30	3680.81	3603.81	3555.83	3522.57	3499.04	3471.73	3413.31	3438.46	3599.08	3710.99
31	3738.16	3655.47	3602.89	3574.23	3539.34	3518.51	3461.18	3485.52	3649.99	3774.35
32	3797.01	3711.53	3652.65	3621.82	3591.53	3565.57	3513.92	3530.95	3704.54	3833.52
33	3854.79	3768.01	3703.77	3668.61	3638.59	3612.63	3558.81	3582.07	3761.79	3891.84
34	3913.75	3823.75	3760.02	3708.37	3684.57	3664.01	3614.25	3630.75	3815.80	3952.41
35	3974.32	3876.70	3811.14	3760.56	3731.63	3708.37	3664.55	3684.03	3870.79	4013.84
36	4039.18	3936.52	3865.23	3810.87	3772.46	3752.99	3717.02	3729.46	3929.53	4078.70
37	4099.65	3998.70	3911.20	3853.87	3827.63	3792.48	3766.78	3787.61	3992.04	4142.07
38	4163.76	4060.02	3960.69	3907.69	3882.80	3842.78	3815.46	3841.43	4049.82	4205.54
39	4228.20	4119.08	4015.32	3955.28	3938.79	3892.54	3864.41	3887.94	4109.20	4268.79
40	4294.24	4187.82	4065.63	4004.51	3991.52	3938.52	3902.82	3945.28	4170.53	4337.63
41	4363.30	4253.97	4104.30	4058.32	4048.05	3990.17	3955.56	3999.91	4234.10	4405.72
42	4432.67	4321.31	4147.03	4105.38	4105.11	4043.99	4002.34	4065.90	4307.78	4479.39
43	4504.52	4390.47	4200.58	4162.72	4163.80	4093.21	4041.02	4119.99	4371.46	4547.91
44	4572.07	4459.84	4244.12	4211.67	4216.00	4138.65	4091.86	4179.21	4432.67	4611.81
45	4640.91	4521.60	4295.24	4267.38	4281.17	4193.28	4128.91	4243.31	4495.39	4680.32
46	4715.76	4595.91	4336.89	4319.58	4349.33	4244.66	4178.67	4302.00	4560.47	4754.75
47	4782.56	4662.39	4389.62	4376.10	4413.96	4296.05	4227.90	4360.95	4627.81	4823.26
48	4858.28	4732.73	4434.52	4423.97	4478.60	4346.08	4270.36	4421.53	4701.05	4891.57
49	4927.01	4798.56	4481.84	4482.39	4529.71	4401.25	4313.63	4484.28	4770.00	4958.15
50	5000.25	4859.89	4534.04	4538.37	4599.22	4458.05	4355.82	4540.53	4840.77	5028.82
51	5079.51	4925.29	4585.16	4597.33	4664.40	4521.60	4399.63	4604.63	4906.71	5096.26
52	5160.16	4985.64	4628.70	4650.06	4728.22	4564.06	4452.64	4663.31	4985.43	5161.45
53	5239.63	5054.05	4684.95	4716.05	4792.59	4621.94	4499.42	4721.19	5061.79	5228.03

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CANDELA TABULATION - (Cont.)

54	5317.92	5117.52	4740.93	4775.55	4848.30	4682.52	4541.88	4787.45	5137.93	5297.52
55	5401.04	5180.78	4799.35	4841.00	4923.21	4747.15	4595.16	4846.68	5210.96	5360.98
56	5491.68	5238.56	4849.11	4906.72	4992.18	4802.86	4641.14	4911.58	5288.06	5424.88
57	5575.34	5313.52	4898.87	4975.68	5053.57	4864.26	4700.91	4975.95	5368.50	5487.07
58	5646.87	5387.51	4956.21	5048.43	5133.89	4937.01	4758.78	5037.34	5446.47	5553.86
59	5732.14	5462.36	5018.41	5124.43	5207.72	5011.38	4817.74	5111.17	5526.59	5628.93
60	5818.70	5539.37	5083.05	5194.47	5289.94	5095.22	4880.48	5179.06	5607.88	5706.47
61	5902.36	5613.15	5155.80	5293.46	5370.26	5172.57	4955.13	5251.00	5700.03	5774.02
62	5999.76	5695.73	5235.85	5384.87	5446.53	5274.52	5020.03	5320.23	5792.28	5847.05
63	6087.72	5779.93	5319.69	5483.85	5522.79	5375.40	5096.84	5403.53	5882.70	5918.79
64	6176.43	5861.22	5406.50	5592.30	5608.53	5468.71	5185.28	5484.66	5967.87	6001.05
65	6268.03	5956.91	5512.25	5710.21	5696.15	5586.89	5266.68	5573.10	6052.82	6078.59
66	6352.66	6049.92	5613.66	5836.24	5793.51	5730.77	5363.77	5659.10	6152.80	6153.34
67	6429.23	6147.00	5718.87	5968.22	5886.27	5858.42	5464.92	5746.72	6240.43	6224.64
68	6505.26	6249.13	5845.44	6130.22	5977.15	6006.35	5561.20	5846.25	6310.67	6319.15
69	6548.01	6343.85	5965.25	6289.24	6049.62	6169.97	5676.68	5930.36	6368.77	6404.10
70	6532.11	6447.16	6095.87	6447.45	6116.15	6347.39	5800.00	6033.13	6383.69	6481.96
71	6461.13	6533.29	6242.45	6618.92	6144.28	6502.62	5943.34	6135.09	6340.52	6558.32
72	6307.88	6593.76	6402.02	6763.06	6105.07	6653.53	6083.70	6232.72	6236.24	6618.56
73	6054.21	6623.72	6568.88	6867.46	5974.98	6772.26	6237.04	6281.40	5996.86	6645.84
74	5676.72	6587.96	6770.91	6928.31	5719.41	6852.31	6404.99	6305.20	5635.27	6620.39
75	5080.69	6478.42	6953.73	6897.48	5345.38	6841.76	6584.30	6268.69	5092.61	6517.72
76	4453.19	6249.67	7144.66	6748.73	4813.41	6720.87	6763.33	6125.62	4458.56	6305.62
77	3752.01	5877.87	7303.69	6434.20	4244.12	6462.06	6929.39	5841.11	3765.76	5907.51
78	3055.35	5413.82	7425.93	6066.12	3671.32	6073.15	7070.56	5426.24	3088.86	5417.90
79	2402.18	4866.11	7479.75	5525.23	3133.94	5554.44	7146.83	4935.92	2429.03	4843.78
80	1900.98	4155.92	7394.83	4941.06	2553.29	4981.90	7108.15	4289.02	1925.03	4143.46
81	1453.68	3478.59	7023.23	4243.58	2075.68	4289.02	6834.73	3597.75	1491.81	3466.88
82	1111.52	2783.54	6251.38	3513.65	1599.42	3563.41	6236.23	2910.55	1123.23	2803.40
83	845.62	2211.88	5222.87	2842.40	1202.41	2902.71	5370.53	2312.86	816.19	2225.41
84	642.43	1724.85	4072.39	2262.83	927.36	2343.42	4248.72	1837.69	590.88	1731.40
85	455.99	1320.83	2826.71	1792.25	670.71	1837.15	3044.69	1402.27	422.16	1327.60
86	309.83	998.87	1797.12	1348.72	485.18	1406.86	2090.01	1029.32	290.39	943.13
87	206.73	671.75	1033.65	954.95	329.13	1017.15	1204.03	717.22	180.85	639.21
88	116.41	356.98	465.71	571.18	177.14	662.59	594.98	413.78	105.57	369.22
89	55.63	114.59	134.68	196.61	81.67	243.40	206.89	192.29	54.88	122.11
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MPL240WT40120V_TYPE V.IES

CANDELA TABULATION - (Cont.)

166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	2855.17	2855.17	2855.17	2855.17	2855.17	2855.17	2855.17
1	2876.20	2869.44	2856.46	2851.86	2795.07	2820.76	2857.75
2	2875.39	2874.85	2866.74	2867.01	2805.62	2825.90	2860.86
3	2884.59	2889.45	2878.37	2873.50	2811.02	2836.45	2865.37
4	2895.40	2899.19	2894.32	2884.59	2822.38	2848.89	2871.49
5	2902.98	2911.63	2905.95	2902.44	2834.82	2858.35	2879.01
6	2923.26	2924.88	2924.34	2918.66	2854.84	2869.44	2888.89
7	2938.13	2940.30	2944.90	2933.00	2868.09	2882.69	2900.27
8	2948.68	2967.88	2963.56	2956.80	2889.45	2902.16	2912.62
9	2971.40	2986.27	2987.09	2975.46	2909.20	2922.18	2927.44
10	2989.79	3007.37	3010.61	3010.07	2933.00	2937.86	2944.41
11	3014.13	3032.25	3041.72	3035.22	2961.12	2957.61	2962.67
12	3040.36	3062.54	3069.30	3058.48	2988.71	2984.38	2981.46
13	3069.84	3089.58	3097.70	3097.70	3017.92	3008.45	3004.12
14	3099.32	3128.53	3130.69	3134.48	3046.58	3040.90	3027.54
15	3127.18	3157.20	3159.90	3165.58	3081.20	3067.68	3052.67
16	3163.69	3197.49	3204.52	3210.74	3117.44	3103.11	3081.02
17	3198.84	3232.38	3241.85	3253.20	3160.17	3132.86	3110.23
18	3230.22	3277.54	3295.94	3299.18	3200.20	3173.69	3144.92
19	3268.89	3320.82	3333.26	3344.35	3245.09	3211.29	3176.38
20	3312.70	3364.36	3385.18	3398.16	3297.29	3259.70	3212.14
21	3359.76	3414.39	3443.06	3443.60	3334.88	3300.80	3255.32
22	3411.69	3471.18	3495.80	3504.99	3400.06	3344.07	3296.02
23	3460.91	3528.79	3564.76	3563.68	3453.61	3397.35	3337.58
24	3506.88	3588.02	3632.37	3636.43	3512.56	3446.03	3380.97
25	3558.54	3649.14	3695.93	3698.09	3574.50	3499.58	3428.65
26	3618.31	3708.37	3770.30	3770.57	3638.59	3549.88	3477.94
27	3676.45	3777.06	3850.62	3843.59	3705.66	3608.30	3528.96
28	3741.90	3849.54	3922.02	3913.91	3769.49	3668.34	3580.08
29	3801.13	3923.10	3992.07	4000.72	3833.31	3725.95	3627.76
30	3871.45	3993.69	4071.31	4076.17	3897.68	3785.44	3680.81
31	3936.08	4069.41	4152.44	4154.33	3974.49	3846.29	3738.16
32	4000.72	4147.30	4241.69	4234.93	4046.15	3907.96	3797.01
33	4073.47	4217.89	4320.93	4307.95	4117.28	3973.13	3854.79
34	4144.60	4295.51	4404.50	4392.60	4195.17	4040.48	3913.75
35	4212.21	4374.75	4479.41	4471.57	4263.59	4104.30	3974.32
36	4283.34	4448.58	4562.71	4551.35	4343.92	4167.04	4039.18

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MPL240WT40120V_TYPE V.IES

CANDELA TABULATION - (Cont.)

37	4349.33	4518.08	4649.52	4627.89	4414.50	4245.47	4099.65
38	4404.50	4589.75	4732.55	4713.62	4488.06	4312.54	4163.76
39	4466.70	4658.99	4827.21	4777.71	4559.46	4382.86	4228.20
40	4532.42	4742.83	4912.67	4862.36	4626.53	4451.55	4294.24
41	4600.57	4820.17	4994.88	4942.96	4693.87	4521.33	4363.30
42	4670.35	4889.95	5082.24	5015.98	4764.73	4598.14	4432.67
43	4725.52	4971.62	5159.58	5096.57	4831.53	4668.18	4504.52
44	4782.31	5038.15	5241.26	5169.59	4902.93	4735.52	4572.07
45	4844.51	5117.67	5320.23	5251.54	4964.05	4810.44	4640.91
46	4911.58	5189.60	5397.85	5323.48	5040.32	4881.84	4715.76
47	4968.65	5261.81	5476.82	5395.95	5108.74	4958.64	4782.56
48	5023.82	5338.08	5549.84	5475.20	5170.40	5038.97	4858.28
49	5083.59	5402.99	5629.62	5546.86	5235.85	5107.93	4927.01
50	5149.31	5475.74	5697.50	5626.38	5305.08	5176.89	5000.25
51	5223.68	5548.22	5770.25	5707.24	5375.40	5251.00	5079.51
52	5281.29	5620.70	5849.22	5782.42	5444.91	5323.48	5160.16
53	5344.57	5690.74	5928.19	5861.12	5511.17	5395.41	5239.63
54	5417.59	5769.71	5998.78	5935.77	5580.13	5467.08	5317.92
55	5479.25	5843.81	6071.53	6013.11	5656.12	5544.16	5401.04
56	5550.11	5915.21	6145.09	6090.46	5733.47	5621.51	5491.68
57	5620.16	5992.83	6215.68	6164.29	5806.22	5696.96	5575.34
58	5688.58	6074.51	6269.50	6253.54	5890.60	5768.09	5646.87
59	5764.30	6154.29	6326.56	6334.95	5978.50	5843.81	5732.14
60	5853.01	6239.21	6374.16	6417.97	6069.91	5913.59	5818.70
61	5937.66	6327.37	6428.25	6512.90	6153.75	6000.94	5902.36
62	6027.72	6417.97	6465.03	6600.25	6252.19	6073.15	5999.76
63	6113.72	6505.06	6499.92	6689.50	6343.06	6149.96	6087.72
64	6218.92	6581.86	6528.32	6768.74	6448.53	6225.69	6176.43
65	6316.01	6670.03	6554.55	6856.37	6552.11	6312.50	6268.03
66	6417.16	6747.65	6572.94	6952.92	6652.18	6407.16	6352.66
67	6526.15	6823.91	6559.96	7015.39	6748.73	6478.82	6429.23
68	6640.82	6891.80	6534.27	7084.08	6863.13	6556.71	6505.26
69	6749.27	6944.53	6468.28	7143.85	6969.68	6644.61	6548.01
70	6860.97	6988.08	6385.52	7176.04	7071.10	6714.38	6532.11
71	6971.04	6988.62	6243.26	7174.14	7185.77	6769.82	6461.13
72	7076.24	6946.70	6018.52	7128.71	7289.62	6776.04	6307.88
73	7187.66	6865.29	5667.75	7033.78	7394.83	6736.56	6054.21
74	7276.91	6716.01	5253.43	6865.02	7480.29	6618.37	5676.72
75	7354.26	6492.08	4726.06	6608.91	7543.57	6400.39	5080.69
76	7403.75	6175.65	4166.50	6267.60	7572.24	6075.86	4453.19
77	7407.27	5747.27	3576.39	5824.88	7554.12	5640.44	3752.01
78	7370.76	5236.39	2954.90	5297.51	7465.14	5083.05	3055.35
79	7254.47	4615.17	2441.86	4677.11	7293.41	4403.14	2402.18
80	6991.32	4022.90	2003.20	4085.10	6973.20	3746.77	1900.98
81	6415.00	3432.24	1578.06	3493.63	6308.44	3024.68	1453.68
82	5709.40	2864.57	1289.22	2923.26	5411.64	2487.84	1111.52
83	4671.97	2350.72	984.70	2351.26	4377.18	1926.66	845.62
84	3618.31	1863.65	754.82	1898.00	3301.07	1502.06	642.43
85	2621.44	1485.56	572.27	1520.18	2338.28	1153.19	455.99
86	1675.69	1140.20	412.43	1168.06	1458.79	808.10	309.83
87	953.05	848.66	275.04	825.13	790.79	523.86	206.73
88	448.94	567.13	167.41	516.55	358.34	263.96	116.41
89	164.43	231.77	76.27	194.18	91.68	68.96	55.63
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MPL240WT40120V_TYPE V.IES

CANDELA TABULATION - (Cont.)

93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MPL240WT40120V_TYPE V.IES

CANDELA TABULATION - (Cont.)

149	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MPL240WT40120V_TYPE V.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1144.51	4.10	4.10
0-30	2742.23	9.80	9.80
0-40	5264.09	18.80	18.80
0-60	13605.31	48.70	48.70
0-80	25985.73	93.00	93.00
0-90	27943.26	100.00	100.00
10-90	27667.87	99.00	99.00
20-40	4119.58	14.70	14.70
20-50	7712.24	27.60	27.60
40-70	14367.33	51.40	51.40
60-80	12380.42	44.30	44.30
70-80	6354.31	22.70	22.70
80-90	1957.53	7.00	7.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	27943.26	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	275.39
10-20	869.12
20-30	1597.72
30-40	2521.86
40-50	3592.67
50-60	4748.56
60-70	6026.11
70-80	6354.31
80-90	1957.53
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

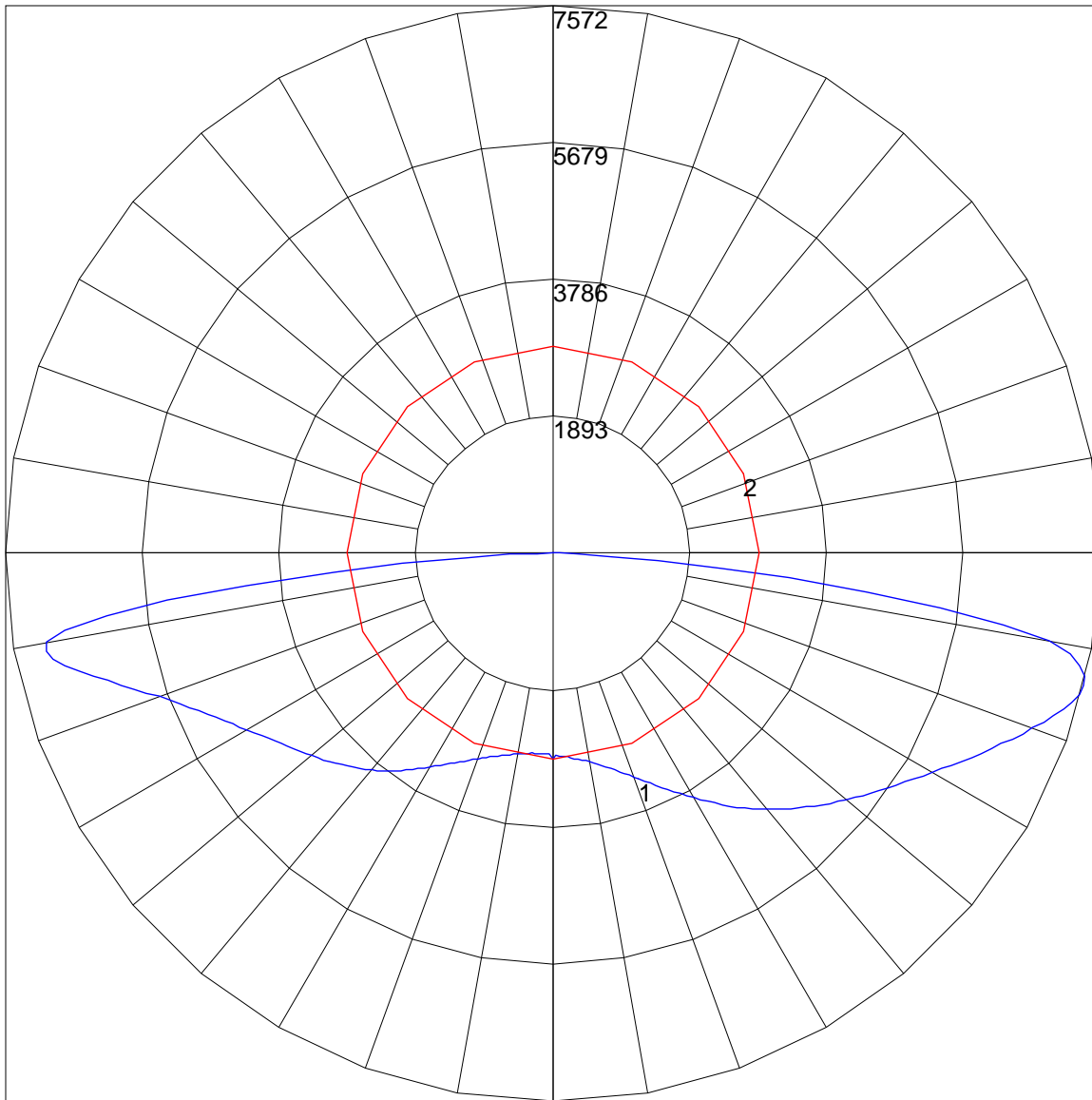
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MPL240WT40120V_TYPE V.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	103	95	89	83	100	93	87	81	88	83	79	84	80	76	80	77	74	71
2	89	78	68	60	86	76	66	59	72	64	57	68	62	56	65	59	54	52
3	79	65	54	45	76	63	53	44	60	51	43	56	49	42	54	47	42	39
4	71	55	44	35	68	54	43	35	51	41	34	48	40	33	46	39	33	30
5	64	48	36	28	62	47	36	28	44	35	27	42	34	27	40	33	27	24
6	58	42	31	23	56	41	31	23	39	30	23	37	29	22	35	28	22	20
7	54	37	27	20	52	37	27	20	35	26	19	33	25	19	32	24	19	16
8	50	34	24	17	48	33	23	17	31	23	17	30	22	16	29	22	16	14
9	46	31	21	15	45	30	21	15	29	20	14	27	20	14	26	19	14	12
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	17	13	11

POLAR GRAPH



Maximum Candela = 7572.24 Located At Horizontal Angle = 315, Vertical Angle = 76
1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)