

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MPLSEL40HTT5-28000LM5K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] DG3221028-50022E-EE  
[TESTLAB] Bay Area Compliance Labs Corp.  
[TESTDATE] 2022-11-29  
[ISSUEDATE] 2022-11-29 16:48:26  
[LAMPPOSITION] 0,0  
[OTHER]  
[MANUFAC] BEGHELLI  
[LUMCAT] MPLSEL40HTT5-28000LM5K  
[LAMP] N/A

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30873
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	202.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.62
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.30 m
Luminous Width (90-270)	0.28 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	138866	134298	126155
55	150319	141490	132858
65	133792	128782	129906
75	47665	42932	60151
85	9237	10689	9880

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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	8556.75	8556.75	8556.75	8556.75	8556.75	8556.75	8556.75	8556.75	8556.75	8556.75
1	8585.30	8585.90	8584.62	8575.44	8560.20	8553.07	8537.57	8532.43	8520.78	8526.63
2	8614.49	8618.80	8607.73	8592.71	8568.87	8543.97	8518.77	8503.93	8492.23	8495.05
3	8647.20	8647.69	8635.17	8608.92	8573.82	8538.84	8504.01	8477.71	8460.76	8461.52
4	8677.39	8679.74	8660.46	8628.21	8581.58	8532.05	8485.57	8448.83	8429.92	8431.57
5	8710.09	8707.98	8686.83	8643.41	8586.02	8525.48	8465.60	8424.30	8400.65	8400.82
6	8739.95	8733.59	8710.69	8661.34	8592.72	8517.19	8448.21	8399.33	8372.89	8372.41
7	8770.42	8764.62	8734.38	8675.09	8593.92	8506.65	8428.21	8372.80	8343.76	8344.26
8	8800.70	8795.55	8759.52	8690.64	8597.37	8498.48	8409.04	8349.75	8312.78	8316.94
9	8830.09	8823.20	8779.80	8704.99	8601.36	8487.55	8391.30	8321.79	8284.99	8288.92
10	8859.61	8850.47	8797.30	8718.94	8602.85	8480.29	8374.90	8301.12	8257.38	8260.87
11	8891.10	8878.67	8814.28	8727.62	8601.76	8473.87	8359.80	8278.34	8230.68	8233.68
12	8920.60	8904.07	8830.68	8736.59	8601.54	8468.31	8346.27	8258.64	8203.00	8210.27
13	8949.15	8926.89	8848.57	8742.88	8601.75	8462.21	8333.06	8240.62	8176.39	8184.32
14	8976.34	8948.55	8860.01	8749.58	8600.12	8451.92	8318.86	8217.03	8149.84	8158.24
15	8999.45	8967.12	8869.96	8751.53	8596.35	8442.16	8300.54	8198.46	8125.26	8135.19
16	9023.65	8985.61	8878.26	8752.41	8592.66	8432.64	8286.73	8174.93	8101.51	8112.49
17	9042.07	9003.22	8885.06	8755.00	8587.72	8421.42	8269.91	8151.20	8074.99	8081.43
18	9058.70	9012.53	8889.75	8751.20	8581.88	8409.14	8251.20	8126.94	8052.02	8054.25
19	9073.46	9020.60	8887.04	8745.02	8571.19	8395.37	8231.84	8102.06	8026.59	8027.03
20	9085.69	9027.48	8881.75	8737.53	8564.36	8378.81	8213.34	8073.62	8002.03	8002.88
21	9089.31	9026.65	8872.76	8725.69	8552.62	8361.04	8187.63	8046.74	7976.11	7975.90
22	9091.96	9019.21	8862.16	8711.55	8540.35	8341.75	8159.77	8013.12	7943.24	7946.71
23	9089.64	9010.82	8847.89	8695.27	8523.08	8323.35	8133.48	7980.69	7908.63	7918.30
24	9081.72	8991.64	8829.74	8679.66	8504.68	8300.90	8100.13	7945.33	7878.29	7885.24
25	9067.06	8973.79	8807.40	8657.31	8484.95	8278.61	8069.53	7909.46	7842.08	7853.38
26	9050.15	8956.58	8789.22	8632.35	8461.40	8251.65	8033.70	7872.83	7803.71	7820.27
27	9031.70	8933.68	8765.59	8606.18	8431.24	8223.55	8004.09	7832.91	7766.18	7783.59
28	9008.76	8908.08	8739.98	8578.04	8402.69	8193.70	7973.99	7793.64	7725.86	7746.92
29	8986.22	8879.02	8714.40	8547.30	8372.77	8163.02	7939.40	7755.70	7687.28	7708.28
30	8960.61	8849.12	8688.06	8516.31	8337.54	8132.11	7908.51	7721.13	7648.13	7670.75
31	8938.43	8823.75	8657.61	8481.48	8302.09	8098.39	7875.49	7681.91	7607.70	7634.27
32	8910.55	8790.86	8625.91	8444.86	8262.40	8064.30	7842.50	7645.33	7576.26	7594.82
33	8883.91	8759.26	8591.89	8408.24	8220.89	8028.96	7807.08	7605.16	7540.99	7559.86
34	8853.07	8726.79	8555.74	8363.05	8173.36	7989.04	7767.62	7571.08	7507.05	7526.21
35	8816.56	8688.29	8519.57	8323.60	8123.61	7946.48	7730.48	7531.26	7473.87	7490.31
36	8773.80	8650.87	8476.93	8276.73	8072.18	7904.96	7688.18	7494.71	7439.05	7455.72
37	8733.78	8609.24	8438.23	8224.23	8024.42	7855.78	7646.39	7453.90	7404.08	7416.25
38	8688.82	8566.82	8393.43	8174.84	7963.89	7805.89	7602.48	7412.26	7364.90	7378.47
39	8639.32	8517.17	8347.61	8119.05	7905.10	7754.04	7555.55	7369.77	7328.69	7340.38
40	8587.58	8467.38	8292.50	8063.89	7839.56	7698.98	7507.79	7327.78	7282.66	7302.84
41	8528.44	8410.68	8239.21	8002.59	7775.14	7641.10	7460.55	7285.88	7239.34	7263.74
42	8466.69	8356.35	8181.90	7937.80	7709.71	7576.75	7408.22	7235.31	7191.84	7216.51
43	8397.76	8294.03	8119.33	7872.62	7639.94	7512.50	7355.67	7186.93	7143.09	7174.75
44	8327.59	8224.41	8052.09	7801.76	7571.13	7443.44	7303.98	7138.02	7095.53	7130.16
45	8251.75	8157.58	7980.30	7726.17	7496.41	7373.98	7246.14	7085.80	7044.00	7083.01
46	8177.03	8081.81	7902.54	7645.39	7422.88	7295.16	7186.10	7030.31	6987.34	7032.12
47	8099.17	8003.09	7816.31	7562.01	7339.45	7215.61	7122.15	6977.18	6932.57	6979.88
48	8017.04	7918.80	7722.86	7474.69	7253.46	7131.81	7054.05	6922.49	6872.09	6926.42
49	7935.24	7822.71	7622.87	7379.68	7158.95	7045.99	6981.93	6863.59	6806.09	6863.60
50	7854.30	7728.74	7516.27	7287.33	7064.52	6957.99	6905.01	6799.52	6733.77	6805.10
51	7765.07	7619.82	7400.46	7190.29	6960.13	6866.72	6819.76	6730.61	6654.40	6738.92
52	7662.74	7509.39	7272.17	7083.93	6841.41	6770.98	6728.70	6654.47	6560.79	6668.59
53	7547.57	7386.24	7131.11	6967.94	6705.64	6668.41	6632.67	6569.04	6461.54	6588.83

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54	7409.76	7249.57	6981.71	6835.46	6558.54	6553.13	6527.43	6466.49	6348.31	6495.92
55	7245.50	7091.89	6819.93	6689.17	6403.89	6428.74	6415.90	6352.96	6225.42	6390.16
56	7060.84	6905.56	6649.26	6511.78	6253.83	6285.24	6291.29	6224.81	6105.96	6268.78
57	6858.82	6696.25	6465.40	6322.35	6096.46	6132.58	6164.14	6080.67	5983.41	6139.40
58	6650.49	6463.51	6271.37	6118.50	5931.64	5967.65	6016.87	5925.10	5874.56	6007.91
59	6426.40	6209.59	6063.33	5911.61	5764.96	5790.35	5859.07	5764.80	5771.40	5877.74
60	6200.22	5947.36	5846.00	5691.42	5589.58	5614.80	5678.68	5600.95	5673.42	5749.14
61	5964.02	5683.41	5611.19	5467.69	5418.71	5431.44	5473.08	5435.83	5573.99	5624.85
62	5712.29	5408.41	5367.44	5235.30	5243.41	5237.26	5238.46	5258.65	5469.51	5499.48
63	5439.45	5136.08	5111.53	5000.66	5060.16	5046.29	4981.91	5080.49	5341.04	5374.25
64	5116.85	4852.37	4846.97	4766.72	4849.66	4844.67	4719.41	4880.60	5177.12	5223.57
65	4751.63	4551.21	4573.70	4528.55	4613.61	4634.27	4458.44	4664.58	4969.58	5042.87
66	4349.90	4225.13	4308.22	4281.27	4346.44	4391.78	4201.71	4440.63	4721.24	4833.94
67	3934.34	3866.06	4029.27	4026.75	4060.21	4127.71	3951.21	4185.93	4433.52	4587.46
68	3523.88	3504.35	3734.56	3759.74	3731.46	3826.55	3705.08	3913.55	4114.19	4326.18
69	3128.44	3143.26	3409.53	3462.69	3344.43	3496.93	3467.43	3639.17	3775.55	4054.02
70	2752.60	2787.97	3036.70	3132.86	2923.98	3149.79	3233.49	3349.06	3430.32	3771.61
71	2379.16	2427.69	2618.92	2754.52	2500.13	2758.24	2957.59	3030.39	3046.06	3468.35
72	2004.84	2066.84	2147.27	2346.30	2107.07	2356.44	2629.00	2662.63	2635.67	3137.26
73	1639.26	1715.11	1691.09	1922.30	1779.14	1961.55	2229.14	2248.77	2189.30	2747.21
74	1306.57	1375.71	1278.20	1528.64	1543.71	1657.56	1785.15	1855.63	1805.27	2309.63
75	1036.72	1073.86	933.77	1207.71	1308.28	1353.58	1341.16	1462.49	1421.24	1880.00
76	838.75	807.81	663.52	962.32	1073.70	1051.73	901.24	1072.54	1041.46	1450.36
77	678.48	653.27	545.63	758.03	866.92	836.93	627.63	812.52	834.30	1023.22
78	534.03	499.41	428.67	617.33	664.49	665.12	458.19	609.01	660.92	751.09
79	389.60	345.55	311.71	478.82	458.46	518.30	350.64	448.28	474.00	565.80
80	245.16	262.32	252.38	340.31	272.28	404.14	282.88	321.98	303.75	410.81
81	185.36	199.14	203.60	259.72	219.71	313.17	232.06	241.34	214.09	283.67
82	145.27	159.86	169.33	201.05	167.14	255.79	196.56	197.42	175.24	224.36
83	115.14	123.53	138.84	154.47	115.04	208.35	166.70	164.17	136.39	165.05
84	90.66	91.29	107.85	117.71	94.36	166.85	136.84	130.92	97.43	106.27
85	67.65	65.83	78.29	82.90	72.36	125.35	106.98	97.61	54.76	69.94
86	47.67	47.14	56.83	61.84	52.00	83.89	75.97	49.44	36.64	46.93
87	27.72	28.50	35.46	40.89	34.42	49.21	51.04	33.13	18.52	23.92
88	7.77	9.86	14.10	19.93	23.14	32.95	26.11	16.83	0.54	1.62
89	4.87	7.26	10.14	6.89	11.86	16.70	1.51	0.75	0.57	0.64
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 : MPLSEL40HTT5-28000LM5K.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	8556.75	8556.75	8556.75	8556.75	8556.75	8556.75	8556.75
1	8532.72	8537.66	8547.65	8563.26	8576.34	8584.15	8585.30
2	8506.54	8518.92	8541.79	8568.86	8589.46	8612.54	8614.49
3	8476.58	8498.88	8536.12	8575.17	8609.38	8638.68	8647.20
4	8449.15	8478.73	8529.61	8580.82	8627.48	8663.10	8677.39
5	8423.97	8460.70	8519.70	8588.98	8646.63	8690.66	8710.09
6	8396.43	8439.48	8513.59	8593.54	8663.14	8717.80	8739.95
7	8369.67	8421.82	8506.87	8595.62	8679.92	8744.95	8770.42
8	8344.72	8400.55	8495.42	8602.52	8697.45	8773.09	8800.70
9	8320.30	8382.19	8487.03	8607.07	8716.05	8797.63	8830.09
10	8296.18	8366.01	8478.05	8613.19	8733.74	8823.66	8859.61
11	8270.95	8349.18	8473.33	8618.94	8752.31	8851.22	8891.10
12	8247.46	8332.30	8469.37	8623.99	8772.04	8874.12	8920.60
13	8226.32	8315.08	8462.94	8628.26	8787.49	8901.32	8949.15
14	8204.36	8301.59	8457.09	8633.02	8797.95	8922.95	8976.34
15	8182.17	8285.63	8453.88	8633.38	8810.99	8944.61	8999.45
16	8156.58	8275.95	8449.31	8632.52	8817.60	8964.00	9023.65
17	8134.96	8260.70	8448.32	8634.22	8824.80	8984.12	9042.07
18	8110.76	8246.28	8443.81	8636.42	8832.75	8996.77	9058.70
19	8087.39	8232.45	8438.03	8633.65	8835.10	9009.01	9073.46
20	8062.14	8218.31	8428.31	8632.95	8834.70	9015.74	9085.69
21	8036.85	8201.04	8420.15	8625.96	8833.17	9022.80	9089.31
22	8013.95	8185.99	8411.50	8619.95	8831.18	9024.84	9091.96
23	7989.01	8168.89	8398.49	8609.71	8827.12	9023.57	9089.64
24	7962.54	8147.66	8388.64	8600.81	8817.34	9016.78	9081.72
25	7940.12	8132.03	8373.05	8590.64	8800.77	9002.12	9067.06
26	7914.61	8112.31	8359.52	8577.69	8785.97	8987.34	9050.15
27	7884.88	8092.09	8344.21	8561.97	8770.81	8968.33	9031.70
28	7853.61	8071.43	8326.47	8544.87	8752.65	8949.19	9008.76
29	7825.39	8048.47	8308.85	8525.90	8730.00	8923.52	8986.22
30	7794.55	8027.13	8288.33	8503.92	8704.73	8900.14	8960.61
31	7764.63	8002.85	8265.43	8480.39	8681.62	8869.38	8938.43
32	7735.78	7977.73	8243.44	8456.84	8655.03	8841.93	8910.55
33	7705.18	7951.06	8220.54	8426.25	8630.78	8809.21	8883.91
34	7674.47	7923.05	8195.25	8392.24	8599.26	8770.35	8853.07
35	7644.11	7893.52	8161.62	8362.17	8569.36	8730.97	8816.56
36	7613.30	7858.62	8120.58	8326.68	8534.32	8693.37	8773.80

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MPLSEL40HTT5-28000LM5K.IES**

**CANDELA TABULATION - (Cont.)**

37	7582.64	7823.60	8078.31	8291.15	8501.60	8650.10	8733.78
38	7546.56	7783.37	8036.67	8255.72	8466.18	8605.44	8688.82
39	7515.90	7740.78	7996.32	8214.80	8427.20	8557.42	8639.32
40	7477.67	7697.13	7955.59	8171.98	8385.22	8511.00	8587.58
41	7442.17	7653.12	7916.26	8126.41	8343.39	8453.02	8528.44
42	7404.43	7605.32	7871.95	8080.61	8296.13	8395.14	8466.69
43	7364.01	7556.64	7823.57	8027.57	8245.99	8339.28	8397.76
44	7324.47	7509.86	7778.60	7975.07	8191.99	8271.64	8327.59
45	7282.08	7461.04	7727.52	7920.42	8140.98	8211.98	8251.75
46	7238.62	7413.10	7671.30	7862.20	8081.80	8145.43	8177.03
47	7195.25	7361.72	7613.11	7801.23	8018.27	8077.22	8099.17
48	7147.80	7307.52	7552.40	7737.87	7946.74	8000.02	8017.04
49	7096.83	7252.61	7487.94	7668.15	7868.17	7919.77	7935.24
50	7038.88	7191.14	7419.53	7599.02	7784.81	7838.36	7854.30
51	6976.84	7126.14	7344.54	7520.80	7696.14	7750.12	7765.07
52	6910.29	7060.39	7265.19	7431.68	7602.37	7658.96	7662.74
53	6844.72	6987.92	7176.66	7341.41	7502.37	7558.59	7547.57
54	6773.43	6913.98	7080.22	7243.18	7390.82	7447.24	7409.76
55	6696.00	6831.95	6974.31	7126.29	7275.87	7322.74	7245.50
56	6610.91	6735.17	6861.42	7000.63	7149.85	7174.28	7060.84
57	6519.48	6628.89	6746.55	6860.18	7016.50	7007.12	6858.82
58	6416.52	6514.32	6626.35	6715.95	6870.22	6815.81	6650.49
59	6297.59	6392.22	6498.47	6560.43	6711.35	6602.20	6426.40
60	6154.64	6259.91	6372.56	6401.33	6538.72	6375.39	6200.22
61	5983.67	6119.36	6243.00	6224.72	6350.53	6138.33	5964.02
62	5788.03	5967.06	6107.96	6043.87	6138.76	5892.13	5712.29
63	5566.41	5809.85	5990.50	5857.55	5915.26	5647.32	5439.45
64	5320.73	5625.85	5860.95	5673.32	5669.72	5389.35	5116.85
65	5063.53	5446.35	5728.44	5479.82	5405.51	5100.48	4751.63
66	4792.64	5255.65	5572.44	5283.44	5131.03	4789.99	4349.90
67	4533.68	5048.16	5391.80	5062.88	4839.58	4435.20	3934.34
68	4284.43	4821.14	5180.22	4819.56	4542.55	4055.56	3523.88
69	4056.33	4584.05	4912.94	4552.65	4251.24	3661.77	3128.44
70	3863.90	4315.36	4600.48	4269.66	3948.56	3265.20	2752.60
71	3684.84	4023.98	4229.90	3951.45	3608.40	2870.41	2379.16
72	3482.80	3701.53	3838.11	3613.19	3198.00	2470.06	2004.84
73	3193.97	3351.92	3377.44	3251.61	2702.54	2070.24	1639.26
74	2790.01	2978.32	2835.39	2825.00	2144.38	1679.84	1306.57
75	2294.39	2514.60	2316.95	2278.90	1559.06	1314.78	1036.72
76	1794.16	1977.50	1923.42	1728.61	1063.22	1000.16	838.75
77	1293.93	1516.99	1612.30	1312.80	714.58	748.83	678.48
78	799.03	1061.25	1339.11	1024.47	583.12	599.63	534.03
79	519.24	796.37	1027.97	794.90	451.75	450.48	389.60
80	364.89	574.98	603.66	603.92	320.38	301.33	245.16
81	270.86	395.30	390.97	443.18	247.63	212.98	185.36
82	219.58	265.87	183.63	283.09	190.08	166.10	145.27
83	168.31	214.05	142.81	191.24	145.06	125.93	115.14
84	117.61	162.23	107.29	136.30	112.68	95.01	90.66
85	88.46	110.45	81.02	91.80	86.42	69.09	67.65
86	58.68	84.41	60.94	61.04	59.25	48.93	47.67
87	39.36	54.03	40.93	39.78	36.32	28.81	27.72
88	20.05	36.10	20.92	18.70	13.49	8.69	7.77
89	0.88	18.18	4.83	4.25	9.61	6.42	4.87
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 : MPLSEL40HTT5-28000LM5K.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 : MPLSEL40HTT5-28000LM5K.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 : MPLSEL40HTT5-28000LM5K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3236.51	N.A.	10.50
0-30	7128.73	N.A.	23.10
0-40	12222.76	N.A.	39.60
0-60	24136.00	N.A.	78.20
0-80	30750.58	N.A.	99.60
0-90	30873.05	N.A.	100.00
10-90	30056.57	N.A.	97.40
20-40	8986.25	N.A.	29.10
20-50	14882.97	N.A.	48.20
40-70	16726.62	N.A.	54.20
60-80	6614.58	N.A.	21.40
70-80	1801.2	N.A.	5.80
80-90	122.47	N.A.	0.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	30873.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	816.48
10-20	2420.03
20-30	3892.22
30-40	5094.03
40-50	5896.71
50-60	6016.53
60-70	4813.37
70-80	1801.21
80-90	122.47
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 : MPLSEL40HTT5-28000LM5K.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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MPLSEL40HTT5-28000LM5K.IES**

**UGR TABLE - CORRECTED**

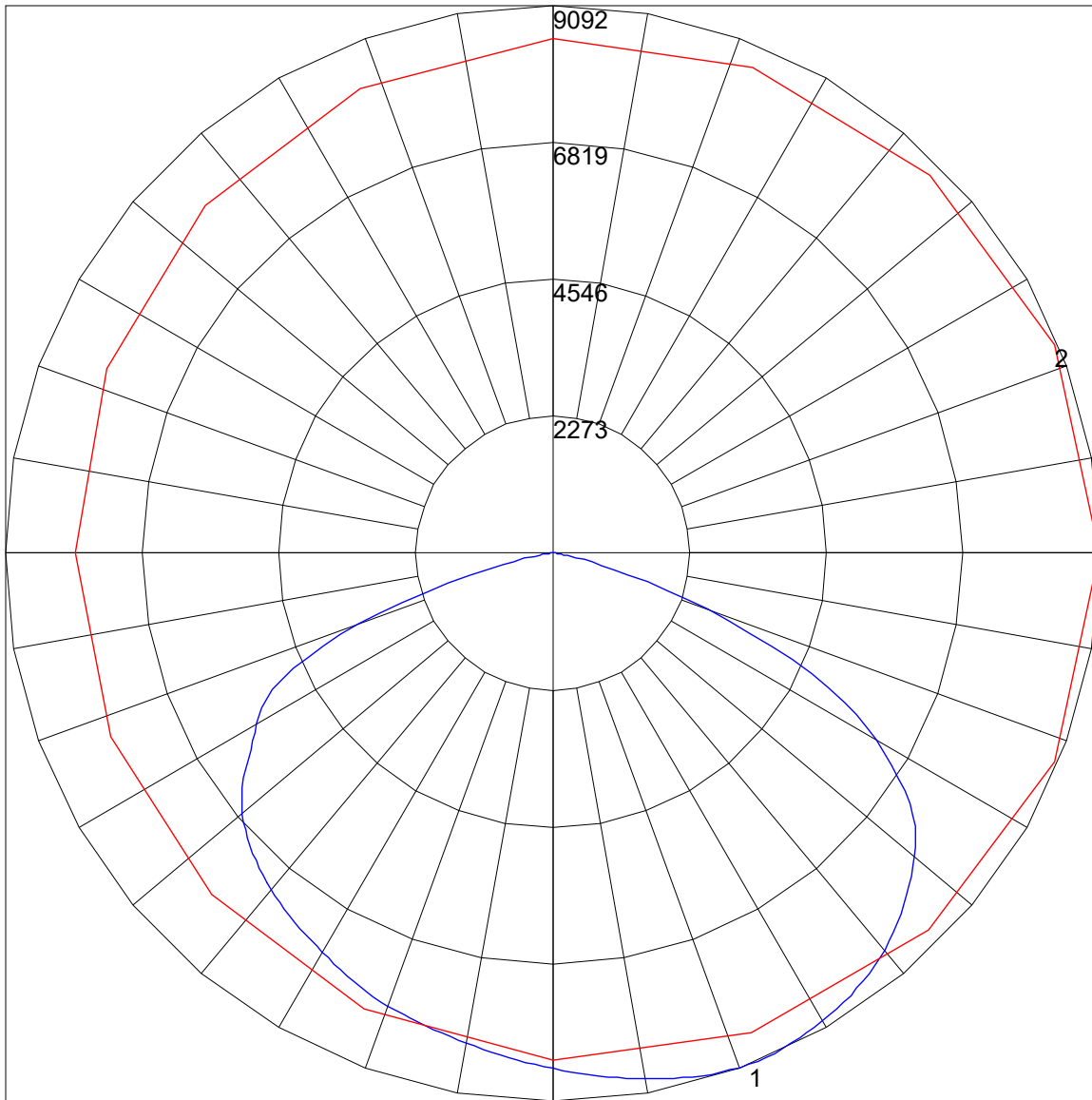
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	30.4	32.1	30.8	32.5	32.8	29.8	31.5	30.1	31.8	32.1
	3H	31.7	33.3	32.1	33.6	34.0	31.4	32.9	31.8	33.3	33.6
	4H	31.9	33.3	32.3	33.7	34.0	31.6	33.1	32.0	33.4	33.8
	6H	31.9	33.2	32.3	33.6	34.0	31.7	33.0	32.1	33.4	33.7
	8H	31.8	33.1	32.3	33.5	33.9	31.6	32.9	32.0	33.3	33.7
	12H	31.8	33.1	32.3	33.4	33.9	31.6	32.8	32.0	33.2	33.6
4H	2H	31.1	32.5	31.5	32.9	33.3	30.4	31.9	30.8	32.2	32.6
	3H	32.6	33.8	33.0	34.2	34.6	32.2	33.4	32.6	33.8	34.2
	4H	32.7	33.8	33.2	34.2	34.7	32.4	33.5	32.9	33.9	34.4
	6H	32.7	33.7	33.2	34.1	34.6	32.5	33.4	32.9	33.9	34.3
	8H	32.7	33.6	33.2	34.0	34.5	32.5	33.4	32.9	33.8	34.3
	12H	32.7	33.5	33.2	34.0	34.4	32.5	33.2	32.9	33.7	34.2
8H	4H	32.8	33.7	33.3	34.1	34.6	32.5	33.4	33.0	33.8	34.3
	6H	32.8	33.6	33.3	34.0	34.5	32.6	33.3	33.0	33.8	34.2
	8H	32.8	33.5	33.3	34.0	34.5	32.5	33.2	33.1	33.7	34.2
	12H	32.8	33.4	33.3	33.9	34.4	32.5	33.1	33.0	33.6	34.2
12H	4H	32.8	33.6	33.3	34.1	34.5	32.5	33.3	33.0	33.8	34.2
	6H	32.8	33.5	33.3	33.9	34.5	32.5	33.2	33.1	33.6	34.2
	8H	32.8	33.4	33.3	33.9	34.4	32.5	33.1	33.0	33.6	34.2

Maximum UGR = 34.7

POLAR GRAPH



Maximum Candela = 9091.96 Located At Horizontal Angle = 0, Vertical Angle = 22  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (22) (Through Max. Cd.)