

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MPLSEL25HTT5-14000LM4K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] DG3221028-49929E-EE  
[TESTLAB] Bay Area Compliance Labs Corp.  
[TESTDATE] 2022-11-26  
[ISSUEDATE] 2022-12-29 10:43:47  
[LAMPPOSITION] 0,0  
[OTHER]  
[MANUFAC] BEGHELLI  
[LUMCAT] MPLSEL25HTT5-14000LM4K  
[LAMP] N/A

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	101.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.28 m
Luminous Width (90-270)	0.15 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	139190	135527	128417
55	147234	139895	135153
65	124860	126521	135882
75	45581	46491	68380
85	8004	10762	11256

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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	4422.03	4422.03	4422.03	4422.03	4422.03	4422.03	4422.03	4422.03	4422.03	4422.03
1	4440.97	4442.66	4441.11	4433.30	4426.01	4418.68	4413.59	4408.12	4399.77	4402.85
2	4460.62	4463.86	4458.00	4444.91	4431.83	4416.10	4403.41	4390.97	4381.32	4381.59
3	4481.08	4482.38	4474.43	4460.34	4437.71	4414.31	4392.13	4374.81	4361.01	4360.21
4	4500.75	4502.00	4491.79	4472.25	4444.00	4411.13	4382.43	4357.63	4340.92	4340.51
5	4520.41	4520.90	4507.06	4483.73	4448.64	4406.89	4371.56	4340.37	4320.24	4320.22
6	4538.58	4542.22	4523.58	4494.69	4451.06	4403.40	4357.83	4323.32	4298.53	4298.36
7	4557.34	4560.87	4539.06	4507.77	4454.08	4399.54	4345.55	4306.09	4281.82	4277.09
8	4578.20	4581.97	4552.72	4514.70	4459.72	4392.67	4332.88	4288.67	4260.77	4259.75
9	4599.28	4598.70	4565.17	4523.36	4458.91	4386.76	4322.52	4272.77	4242.74	4238.35
10	4614.88	4613.19	4576.61	4529.03	4461.87	4381.90	4312.77	4257.78	4222.68	4222.37
11	4631.24	4628.43	4586.80	4535.69	4460.21	4377.13	4302.58	4244.83	4205.09	4206.26
12	4645.86	4639.74	4597.13	4538.79	4464.34	4372.55	4293.04	4229.08	4185.90	4186.94
13	4659.56	4653.16	4602.09	4540.80	4459.46	4365.78	4282.49	4217.51	4168.68	4169.36
14	4672.76	4661.06	4608.76	4544.88	4457.35	4364.47	4274.87	4204.17	4149.71	4151.58
15	4683.75	4668.24	4613.75	4543.42	4455.15	4357.16	4263.70	4189.30	4134.80	4133.70
16	4694.50	4674.17	4617.56	4543.62	4449.59	4351.89	4253.64	4176.57	4117.60	4117.92
17	4702.43	4678.28	4618.07	4541.73	4446.62	4344.74	4242.45	4161.18	4100.52	4101.22
18	4709.38	4681.32	4617.66	4537.46	4440.32	4337.19	4228.51	4145.78	4083.45	4082.91
19	4713.85	4683.53	4612.93	4533.01	4430.43	4328.97	4218.59	4127.60	4068.65	4068.50
20	4712.95	4681.64	4606.20	4526.98	4424.09	4319.13	4206.37	4113.78	4052.55	4048.68
21	4712.71	4676.10	4599.25	4514.99	4415.67	4307.37	4193.50	4096.86	4035.14	4030.57
22	4706.87	4668.07	4589.29	4506.85	4407.47	4293.35	4177.45	4077.72	4019.68	4012.63
23	4700.27	4657.87	4577.15	4497.05	4395.19	4281.88	4160.95	4057.58	3998.46	3994.53
24	4691.06	4644.70	4564.15	4485.39	4382.81	4268.65	4142.91	4037.92	3979.89	3974.72
25	4675.57	4632.95	4549.33	4470.46	4370.27	4253.32	4125.24	4015.22	3959.82	3957.22
26	4659.81	4616.42	4535.62	4451.26	4354.45	4238.53	4105.52	3992.12	3937.92	3938.26
27	4641.30	4599.07	4519.80	4434.78	4338.25	4223.00	4087.77	3970.44	3914.95	3915.68
28	4621.76	4580.82	4503.95	4417.37	4320.15	4208.07	4068.05	3948.48	3891.42	3892.08
29	4603.67	4563.77	4483.98	4398.44	4298.56	4187.97	4050.63	3928.02	3867.80	3867.21
30	4587.32	4544.27	4467.44	4377.81	4278.53	4169.85	4033.37	3907.14	3844.13	3846.27
31	4567.56	4521.01	4447.90	4358.72	4257.59	4149.68	4014.66	3887.93	3823.69	3825.57
32	4548.80	4498.94	4426.55	4334.61	4232.64	4129.63	3997.79	3865.48	3803.83	3802.02
33	4527.71	4478.28	4403.71	4311.56	4206.98	4108.18	3976.32	3845.22	3785.71	3781.75
34	4504.06	4452.71	4379.56	4284.55	4182.58	4086.42	3956.85	3824.42	3767.91	3761.20
35	4482.72	4429.62	4357.61	4258.33	4154.57	4063.53	3936.80	3803.55	3746.93	3741.08
36	4458.24	4402.54	4331.71	4231.65	4125.19	4039.57	3912.18	3784.79	3730.14	3718.87
37	4432.49	4378.03	4305.23	4202.47	4097.10	4014.00	3891.07	3762.53	3713.16	3695.47
38	4399.40	4351.31	4277.10	4172.05	4066.37	3987.71	3867.08	3742.64	3694.76	3675.64
39	4368.26	4321.61	4247.06	4141.43	4033.16	3958.60	3842.08	3721.52	3673.79	3658.19
40	4335.06	4289.03	4213.23	4108.60	3998.38	3928.76	3817.26	3700.99	3650.61	3638.02
41	4298.18	4256.79	4180.92	4072.59	3964.46	3898.51	3793.00	3677.67	3631.14	3616.37
42	4259.04	4220.65	4145.70	4037.13	3927.88	3866.19	3764.67	3655.46	3608.45	3594.00
43	4219.29	4184.15	4108.68	4000.11	3889.33	3833.91	3739.31	3630.94	3583.72	3571.60
44	4178.18	4143.96	4069.81	3960.20	3854.84	3798.78	3711.23	3607.02	3559.40	3552.16
45	4135.49	4102.07	4026.65	3916.50	3815.42	3762.42	3683.34	3578.15	3532.02	3527.19
46	4091.97	4054.94	3977.97	3870.11	3777.16	3722.89	3651.84	3550.96	3504.88	3503.33
47	4049.90	4005.73	3928.26	3825.69	3734.77	3682.34	3621.50	3521.36	3476.84	3478.70
48	4004.22	3953.77	3875.68	3776.93	3687.71	3638.20	3588.76	3492.89	3447.45	3451.65
49	3956.51	3897.87	3814.79	3723.82	3644.00	3595.39	3554.57	3460.99	3417.55	3423.96
50	3911.50	3841.69	3756.14	3675.64	3593.40	3552.21	3517.12	3432.52	3383.51	3394.11
51	3859.30	3779.89	3688.52	3622.21	3538.84	3510.17	3478.89	3404.25	3349.53	3363.98
52	3801.55	3714.65	3618.85	3567.09	3478.56	3462.59	3437.54	3368.40	3306.27	3332.61
53	3728.79	3646.39	3541.81	3504.34	3407.17	3414.75	3391.38	3333.10	3256.23	3297.51

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54	3643.64	3571.24	3460.66	3434.40	3334.44	3362.07	3343.06	3288.78	3198.61	3257.33
55	3548.41	3478.88	3371.54	3351.88	3257.24	3301.35	3292.05	3240.50	3136.08	3211.10
56	3444.35	3371.89	3279.79	3262.89	3181.32	3235.64	3236.69	3178.91	3073.25	3154.13
57	3339.15	3255.40	3183.94	3167.28	3103.90	3164.48	3178.02	3110.25	3008.27	3087.65
58	3226.82	3127.80	3082.67	3068.82	3025.68	3089.47	3117.95	3035.35	2949.79	3019.62
59	3110.80	2993.35	2974.86	2966.56	2943.08	3006.43	3046.44	2956.99	2895.11	2953.44
60	2996.78	2861.68	2865.35	2859.62	2864.08	2922.76	2973.38	2882.42	2847.31	2886.51
61	2877.49	2730.29	2749.61	2748.83	2781.01	2832.86	2885.62	2807.57	2804.54	2820.20
62	2746.72	2602.34	2628.05	2636.07	2701.66	2744.10	2783.82	2734.97	2767.53	2757.01
63	2596.43	2472.15	2504.39	2527.05	2613.77	2650.70	2662.01	2660.52	2726.41	2693.25
64	2417.34	2333.83	2375.13	2415.33	2518.01	2560.55	2530.27	2586.20	2679.90	2626.08
65	2217.20	2180.82	2246.69	2298.04	2412.93	2466.15	2394.17	2500.01	2609.24	2546.52
66	2012.86	2013.28	2122.24	2174.87	2292.41	2356.35	2262.12	2403.18	2516.23	2454.45
67	1811.42	1846.33	1993.56	2055.74	2159.83	2236.52	2139.91	2287.73	2406.98	2347.53
68	1616.99	1682.55	1860.23	1928.10	2008.67	2101.62	2017.32	2162.93	2280.17	2231.42
69	1434.21	1512.55	1712.02	1786.96	1834.66	1949.38	1904.30	2031.25	2136.32	2105.92
70	1258.99	1342.35	1542.77	1632.59	1632.84	1783.34	1797.29	1897.81	1980.24	1983.64
71	1074.90	1161.25	1333.09	1455.38	1435.07	1603.48	1675.16	1755.67	1809.37	1864.42
72	889.97	977.83	1093.33	1262.12	1237.30	1405.75	1522.55	1599.43	1624.88	1745.79
73	726.47	793.96	853.89	1052.41	1040.27	1208.02	1328.00	1392.14	1392.63	1612.33
74	610.52	637.31	641.01	844.24	875.84	1010.20	1133.46	1184.85	1160.37	1423.04
75	495.69	514.60	505.59	667.40	743.63	810.14	938.43	977.39	928.09	1233.75
76	380.87	392.78	372.43	531.76	627.46	645.04	679.26	733.02	691.46	1043.12
77	304.43	270.95	239.27	435.90	515.95	515.09	456.98	547.37	528.59	781.65
78	227.61	208.96	190.81	341.29	403.30	408.96	311.17	412.26	426.77	542.10
79	148.86	162.34	157.02	246.67	292.33	323.51	226.50	303.81	337.87	375.75
80	106.67	121.35	126.30	184.03	222.59	251.28	189.10	224.83	259.89	279.06
81	82.60	94.59	102.55	140.39	152.85	190.50	151.71	183.40	181.91	219.80
82	65.75	76.32	84.71	107.99	83.15	161.27	114.33	141.98	103.97	160.54
83	53.59	61.04	68.40	82.84	64.49	132.04	96.96	100.58	78.06	102.23
84	41.45	45.78	53.89	62.64	52.49	102.90	82.14	81.87	59.85	73.26
85	29.31	30.52	39.41	48.35	41.22	81.09	67.29	60.19	39.96	49.31
86	16.95	19.15	24.93	34.27	30.34	60.96	50.37	40.31	20.07	25.36
87	8.20	10.67	14.93	20.19	21.76	39.99	33.89	20.43	0.54	1.77
88	5.82	7.50	6.79	11.45	13.18	26.77	17.41	1.01	0.34	0.66
89	3.51	4.36	3.95	7.99	4.74	13.56	1.39	0.47	0.35	0.40
90	1.19	1.23	1.27	4.68	0.60	0.63	0.50	0.41	0.37	0.38
91	1.20	1.23	1.28	1.37	0.54	0.51	0.46	0.42	0.39	0.40
92	1.26	1.30	1.35	1.38	0.57	0.53	0.49	0.44	0.42	0.42
93	1.33	1.36	1.42	1.45	0.59	0.56	0.52	0.47	0.45	0.44
94	1.40	1.43	1.49	1.52	0.63	0.60	0.55	0.50	0.47	0.47
95	1.46	1.49	1.55	1.59	0.66	0.63	0.58	0.53	0.50	0.49
96	1.52	1.55	1.62	1.65	0.69	0.66	0.62	0.56	0.53	0.51
97	1.58	1.61	1.68	1.71	0.72	0.70	0.65	0.59	0.56	0.54
98	1.64	1.66	1.72	1.76	0.76	0.73	0.68	0.63	0.59	0.58
99	1.69	1.71	1.77	1.81	0.79	0.77	0.72	0.66	0.63	0.61
100	1.72	1.74	1.81	1.85	0.83	0.80	0.75	0.70	0.66	0.65
101	1.75	1.76	1.84	1.88	0.86	0.84	0.78	0.73	0.70	0.69
102	1.77	1.79	1.86	1.90	0.89	0.88	0.82	0.76	0.73	0.72
103	1.78	1.81	1.89	1.92	0.93	0.91	0.85	0.80	0.76	0.76
104	1.80	1.84	1.90	1.93	0.95	0.95	0.88	0.83	0.80	0.79
105	1.82	1.86	1.91	1.94	0.98	0.98	0.92	0.86	0.83	0.82
106	1.84	1.88	1.91	1.95	1.01	1.01	0.95	0.90	0.86	0.86
107	1.86	1.89	1.92	1.97	1.04	1.05	0.98	0.94	0.90	0.89
108	1.86	1.89	1.92	1.98	1.07	1.09	1.02	0.98	0.93	0.93
109	1.87	1.89	1.92	2.00	1.11	1.13	1.05	1.02	0.97	0.96

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110	1.87	1.90	1.93	2.01	1.15	1.17	1.09	1.06	1.01	1.00
111	1.89	1.91	1.93	2.02	1.20	1.21	1.12	1.10	1.06	1.04
112	1.92	1.93	1.94	2.04	1.25	1.25	1.16	1.14	1.10	1.08
113	1.95	1.95	1.96	2.05	1.30	1.30	1.20	1.19	1.15	1.12
114	1.98	1.97	1.98	2.06	1.36	1.34	1.24	1.24	1.19	1.17
115	2.02	2.01	2.01	2.08	1.42	1.38	1.28	1.28	1.24	1.22
116	2.06	2.04	2.05	2.11	1.47	1.43	1.33	1.33	1.30	1.27
117	2.11	2.08	2.09	2.14	1.52	1.49	1.38	1.39	1.36	1.31
118	2.15	2.13	2.13	2.19	1.57	1.54	1.42	1.44	1.42	1.36
119	2.22	2.18	2.17	2.23	1.62	1.58	1.47	1.49	1.48	1.42
120	2.27	2.23	2.22	2.29	1.66	1.62	1.52	1.54	1.54	1.48
121	2.32	2.29	2.27	2.34	1.70	1.65	1.58	1.59	1.61	1.54
122	2.38	2.35	2.31	2.39	1.74	1.68	1.64	1.64	1.68	1.60
123	2.45	2.42	2.37	2.45	1.77	1.71	1.70	1.70	1.75	1.66
124	2.52	2.49	2.44	2.51	1.81	1.75	1.77	1.76	1.82	1.74
125	2.60	2.57	2.52	2.59	1.85	1.79	1.83	1.83	1.89	1.81
126	2.69	2.65	2.60	2.67	1.89	1.85	1.90	1.90	1.97	1.89
127	2.77	2.75	2.68	2.75	1.93	1.90	1.95	1.95	2.03	1.97
128	2.85	2.84	2.76	2.85	1.98	1.97	2.00	2.00	2.10	2.03
129	2.93	2.94	2.84	2.95	2.02	2.04	2.04	2.09	2.18	2.09
130	3.02	3.04	2.93	3.06	2.06	2.14	2.08	2.17	2.26	2.16
131	3.12	3.14	3.02	3.19	2.11	2.23	2.14	2.25	2.33	2.24
132	3.24	3.26	3.12	3.30	2.19	2.32	2.22	2.34	2.39	2.32
133	3.34	3.36	3.22	3.43	2.28	2.41	2.29	2.43	2.45	2.40
134	3.45	3.47	3.33	3.53	2.35	2.44	2.36	2.51	2.52	2.47
135	3.55	3.59	3.47	3.64	2.42	2.48	2.43	2.58	2.58	2.53
136	3.68	3.72	3.63	3.76	2.44	2.50	2.50	2.64	2.64	2.58
137	3.81	3.86	3.82	3.90	2.45	2.52	2.56	2.70	2.69	2.63
138	3.95	4.02	4.02	4.05	2.47	2.55	2.63	2.77	2.75	2.68
139	4.14	4.20	4.25	4.23	2.50	2.58	2.70	2.83	2.82	2.73
140	4.35	4.40	4.48	4.43	2.56	2.62	2.78	2.89	2.88	2.78
141	4.54	4.61	4.71	4.65	2.62	2.67	2.85	2.96	2.95	2.82
142	4.74	4.83	4.95	4.90	2.68	2.75	2.91	3.01	3.02	2.87
143	4.94	5.01	5.18	5.17	2.74	2.85	2.96	3.05	3.07	2.92
144	5.10	5.19	5.40	5.44	2.85	2.92	3.00	3.10	3.12	2.96
145	5.26	5.39	5.61	5.70	2.92	3.00	3.03	3.16	3.14	3.01
146	5.39	5.59	5.81	5.94	2.98	3.05	3.07	3.22	3.17	3.05
147	5.54	5.78	5.99	6.13	3.01	3.09	3.13	3.29	3.22	3.10
148	5.70	5.97	6.15	6.30	3.06	3.13	3.17	3.35	3.25	3.15
149	5.87	6.16	6.31	6.44	3.08	3.15	3.19	3.39	3.31	3.18
150	6.03	6.35	6.46	6.58	3.10	3.17	3.20	3.43	3.36	3.19
151	6.23	6.53	6.61	6.72	3.11	3.19	3.22	3.48	3.42	3.22
152	6.43	6.72	6.75	6.88	3.12	3.22	3.25	3.54	3.49	3.26
153	6.63	6.90	6.90	7.02	3.14	3.27	3.27	3.62	3.57	3.31
154	6.81	7.08	7.04	7.15	3.21	3.35	3.32	3.72	3.68	3.36
155	6.98	7.27	7.19	7.28	3.28	3.44	3.39	3.83	3.79	3.44
156	7.13	7.43	7.32	7.43	3.34	3.51	3.45	3.93	3.89	3.55
157	7.28	7.59	7.42	7.61	3.38	3.58	3.51	4.02	4.00	3.68
158	7.44	7.70	7.51	7.76	3.41	3.64	3.57	4.10	4.11	3.81
159	7.60	7.71	7.58	7.88	3.43	3.67	3.63	4.16	4.19	3.94
160	7.69	7.74	7.67	7.95	3.48	3.69	3.69	4.22	4.25	4.02
161	7.72	7.78	7.76	7.98	3.54	3.71	3.75	4.28	4.31	4.09
162	7.79	7.80	7.82	7.98	3.61	3.74	3.80	4.33	4.37	4.16
163	7.85	7.83	7.81	7.96	3.69	3.81	3.86	4.39	4.46	4.25
164	7.84	7.80	7.75	7.87	3.79	3.90	3.92	4.45	4.56	4.35
165	7.80	7.74	7.68	7.76	3.91	4.00	4.00	4.55	4.67	4.46

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

166	7.74	7.69	7.63	7.66	3.99	4.09	4.12	4.62	4.77	4.57
167	7.69	7.61	7.58	7.56	4.09	4.17	4.20	4.63	4.83	4.65
168	7.58	7.52	7.49	7.46	4.16	4.24	4.28	4.66	4.86	4.71
169	7.50	7.42	7.39	7.35	4.26	4.32	4.36	4.73	4.91	4.76
170	7.43	7.32	7.30	7.24	4.37	4.40	4.43	4.81	4.95	4.80
171	7.35	7.24	7.19	7.11	4.43	4.46	4.40	4.86	4.98	4.83
172	7.33	7.22	7.16	7.01	4.47	4.51	4.51	4.94	5.05	4.91
173	7.34	7.22	7.11	6.91	4.55	4.60	4.66	5.07	5.18	5.06
174	7.30	7.18	7.06	6.79	4.69	4.72	4.85	5.23	5.36	5.25
175	7.24	7.10	6.98	6.70	4.86	4.87	5.08	5.47	5.62	5.53
176	7.11	6.96	6.85	6.53	5.02	5.02	5.23	5.63	5.81	5.71
177	6.95	6.78	6.66	6.32	5.22	5.22	5.39	5.79	5.95	5.85
178	6.74	6.57	6.40	6.14	5.39	5.39	5.60	5.96	6.10	6.02
179	6.54	6.37	6.18	5.95	5.61	5.61	5.81	6.13	6.25	6.19
180	6.34	6.34	6.34	6.34	6.34	6.34	6.34	6.34	6.34	6.34

**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	4422.03	4422.03	4422.03	4422.03	4422.03	4422.03	4422.03
1	4403.48	4407.05	4415.13	4425.30	4434.58	4439.02	4440.97
2	4385.23	4394.22	4410.29	4427.83	4442.62	4457.15	4460.62
3	4366.24	4380.26	4406.13	4431.91	4454.25	4474.01	4481.08
4	4348.76	4367.74	4400.87	4434.88	4466.27	4490.93	4500.75
5	4328.54	4353.81	4394.47	4434.35	4476.50	4506.95	4520.41
6	4309.94	4339.64	4387.74	4436.23	4483.95	4524.61	4538.58
7	4291.85	4326.20	4380.40	4438.55	4492.80	4539.39	4557.34
8	4274.69	4311.14	4375.56	4437.77	4500.23	4554.00	4578.20
9	4255.39	4298.78	4367.17	4442.75	4510.77	4571.26	4599.28
10	4239.81	4286.15	4360.97	4445.18	4523.30	4586.16	4614.88
11	4223.27	4274.01	4352.87	4446.75	4530.77	4599.74	4631.24
12	4208.74	4262.95	4349.22	4446.13	4540.12	4613.87	4645.86
13	4193.06	4250.79	4343.57	4445.05	4546.10	4628.03	4659.56
14	4177.40	4239.80	4337.76	4441.22	4552.54	4639.96	4672.76
15	4162.83	4228.34	4330.22	4439.27	4556.46	4647.63	4683.75
16	4145.04	4219.32	4324.09	4436.52	4558.37	4657.14	4694.50
17	4130.64	4208.15	4318.33	4432.29	4559.25	4662.14	4702.43
18	4113.78	4199.67	4310.67	4428.21	4560.74	4667.11	4709.38
19	4098.74	4187.35	4305.39	4426.62	4558.42	4670.20	4713.85
20	4082.19	4174.87	4295.79	4421.61	4556.11	4672.09	4712.95
21	4065.82	4162.28	4287.17	4417.70	4547.88	4674.46	4712.71
22	4051.24	4150.88	4278.29	4411.61	4542.72	4670.54	4706.87
23	4036.67	4139.51	4268.56	4399.65	4537.17	4664.20	4700.27
24	4020.89	4124.16	4258.86	4388.17	4524.00	4658.00	4691.06
25	4007.19	4110.97	4246.64	4376.79	4513.61	4645.26	4675.57
26	3990.57	4098.81	4233.93	4365.14	4501.54	4629.32	4659.81
27	3972.75	4083.65	4221.70	4353.23	4488.83	4611.40	4641.30
28	3953.72	4070.68	4208.18	4344.96	4474.00	4595.49	4621.76
29	3933.71	4054.67	4193.81	4330.02	4457.86	4579.55	4603.67
30	3914.51	4038.72	4176.19	4315.75	4441.85	4558.62	4587.32
31	3896.13	4022.24	4161.08	4294.47	4421.51	4540.40	4567.56
32	3878.33	4004.70	4142.74	4274.03	4405.15	4519.32	4548.80
33	3861.51	3986.77	4123.19	4252.67	4386.85	4497.62	4527.71
34	3843.69	3967.44	4104.25	4230.34	4362.43	4472.35	4504.06
35	3824.62	3947.85	4085.27	4211.26	4342.43	4445.24	4482.72
36	3802.68	3930.73	4062.23	4189.27	4319.30	4416.19	4458.24

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

37	3784.93	3906.80	4038.95	4168.30	4299.32	4386.94	4432.49
38	3767.07	3883.49	4014.10	4142.75	4274.67	4356.22	4399.40
39	3747.79	3858.88	3990.48	4118.87	4249.93	4322.79	4368.26
40	3725.40	3836.90	3965.49	4091.08	4220.45	4291.92	4335.06
41	3704.33	3812.62	3938.84	4065.93	4189.49	4255.96	4298.18
42	3682.78	3783.63	3911.83	4038.57	4161.33	4222.24	4259.04
43	3658.01	3756.71	3882.27	4005.02	4131.33	4186.29	4219.29
44	3634.69	3728.35	3856.09	3973.44	4096.48	4146.14	4178.18
45	3611.36	3699.04	3827.53	3938.84	4060.21	4110.03	4135.49
46	3586.52	3668.95	3794.82	3902.20	4025.36	4071.00	4091.97
47	3562.64	3641.87	3763.01	3868.23	3988.01	4028.91	4049.90
48	3537.08	3609.21	3727.87	3832.38	3946.06	3982.37	4004.22
49	3510.00	3576.69	3689.85	3792.17	3897.95	3938.36	3956.51
50	3479.92	3542.85	3651.99	3752.03	3852.45	3890.33	3911.50
51	3450.54	3503.30	3609.84	3705.67	3801.27	3843.11	3859.30
52	3416.25	3466.73	3562.71	3659.66	3750.24	3790.76	3801.55
53	3382.63	3427.20	3509.11	3607.88	3689.66	3737.40	3728.79
54	3349.71	3383.66	3453.73	3548.47	3629.22	3678.62	3643.64
55	3313.45	3335.80	3396.42	3481.66	3562.53	3604.12	3548.41
56	3274.02	3278.17	3337.38	3407.00	3494.62	3517.84	3444.35
57	3233.80	3224.00	3274.69	3328.42	3422.08	3418.86	3339.15
58	3190.67	3170.22	3210.88	3251.52	3344.12	3312.78	3226.82
59	3140.87	3109.94	3146.97	3165.77	3261.43	3199.21	3110.80
60	3083.50	3049.30	3081.60	3078.23	3168.14	3079.38	2996.78
61	3013.10	2982.76	3016.27	2985.89	3069.48	2955.05	2877.49
62	2929.68	2915.34	2957.56	2895.45	2957.24	2832.61	2746.72
63	2825.98	2848.51	2899.60	2806.39	2835.06	2709.62	2596.43
64	2703.31	2782.78	2839.75	2706.74	2701.58	2575.64	2417.34
65	2567.61	2708.27	2773.36	2614.77	2558.17	2420.71	2217.20
66	2425.18	2625.37	2701.07	2515.18	2410.39	2237.91	2012.86
67	2278.80	2536.65	2622.72	2407.96	2266.20	2042.57	1811.42
68	2129.14	2436.73	2527.70	2293.72	2124.75	1840.64	1616.99
69	1992.10	2330.56	2408.88	2170.05	1985.51	1642.23	1434.21
70	1878.47	2203.80	2272.17	2035.86	1844.64	1446.35	1258.99
71	1797.84	2064.29	2127.45	1888.01	1669.83	1260.67	1074.90
72	1745.93	1919.11	1965.65	1733.51	1455.16	1075.66	889.97
73	1692.62	1768.21	1767.41	1580.33	1203.44	886.93	726.47
74	1591.60	1604.00	1522.31	1397.43	935.11	717.56	610.52
75	1375.35	1377.00	1236.80	1147.80	664.67	586.10	495.69
76	1159.11	1150.01	989.73	848.60	514.82	455.64	380.87
77	942.69	922.73	806.81	603.48	367.44	325.18	304.43
78	655.36	641.31	672.01	475.47	220.07	246.72	227.61
79	403.49	482.10	499.12	350.11	175.36	183.40	148.86
80	256.99	350.84	325.56	263.63	141.21	122.37	106.67
81	201.67	247.20	152.00	184.83	110.06	93.52	82.60
82	146.35	194.37	95.83	124.84	84.60	73.72	65.75
83	92.12	141.54	74.71	86.04	66.01	58.85	53.59
84	71.72	88.97	59.94	60.83	52.32	44.00	41.45
85	55.17	72.80	45.28	44.13	38.72	29.15	29.31
86	37.67	59.37	30.62	27.73	25.12	17.70	16.95
87	20.17	41.23	20.59	17.03	13.36	9.19	8.20
88	3.08	27.52	11.36	8.21	9.26	6.49	5.82
89	0.61	13.82	7.86	5.74	5.21	3.83	3.51
90	0.39	0.41	4.51	3.46	1.16	1.16	1.19
91	0.41	0.43	1.16	1.17	1.15	1.17	1.20
92	0.43	0.45	1.15	1.19	1.21	1.23	1.26

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

93	0.45	0.48	1.22	1.26	1.28	1.30	1.33
94	0.48	0.50	1.29	1.33	1.35	1.36	1.40
95	0.51	0.53	1.35	1.39	1.42	1.43	1.46
96	0.54	0.56	1.41	1.46	1.48	1.49	1.52
97	0.57	0.60	1.48	1.52	1.54	1.55	1.58
98	0.60	0.63	1.53	1.58	1.60	1.61	1.64
99	0.63	0.66	1.59	1.63	1.65	1.66	1.69
100	0.66	0.69	1.63	1.68	1.69	1.70	1.72
101	0.70	0.73	1.68	1.72	1.73	1.73	1.75
102	0.73	0.76	1.72	1.75	1.76	1.75	1.77
103	0.76	0.79	1.75	1.78	1.79	1.77	1.78
104	0.80	0.82	1.78	1.81	1.81	1.79	1.80
105	0.83	0.85	1.80	1.83	1.82	1.81	1.82
106	0.86	0.88	1.83	1.84	1.84	1.82	1.84
107	0.90	0.91	1.85	1.86	1.86	1.84	1.86
108	0.93	0.95	1.87	1.89	1.88	1.85	1.86
109	0.97	0.98	1.89	1.90	1.90	1.87	1.87
110	1.01	1.02	1.92	1.92	1.92	1.89	1.87
111	1.05	1.06	1.94	1.95	1.94	1.91	1.89
112	1.09	1.10	1.97	1.97	1.96	1.94	1.92
113	1.13	1.15	1.99	1.99	2.00	1.97	1.95
114	1.18	1.19	2.02	2.02	2.03	2.00	1.98
115	1.22	1.24	2.05	2.04	2.06	2.03	2.02
116	1.27	1.29	2.09	2.08	2.09	2.06	2.06
117	1.31	1.34	2.13	2.12	2.13	2.11	2.11
118	1.36	1.39	2.17	2.17	2.17	2.15	2.15
119	1.41	1.45	2.23	2.22	2.22	2.20	2.22
120	1.47	1.50	2.29	2.27	2.28	2.25	2.27
121	1.52	1.55	2.35	2.32	2.32	2.31	2.32
122	1.58	1.61	2.41	2.39	2.38	2.37	2.38
123	1.64	1.67	2.48	2.46	2.44	2.43	2.45
124	1.72	1.72	2.55	2.54	2.52	2.51	2.52
125	1.80	1.77	2.64	2.62	2.61	2.59	2.60
126	1.88	1.82	2.74	2.70	2.70	2.68	2.69
127	1.94	1.87	2.84	2.79	2.78	2.77	2.77
128	1.99	1.93	2.94	2.90	2.88	2.86	2.85
129	2.04	2.00	3.04	3.00	2.98	2.95	2.93
130	2.10	2.09	3.16	3.13	3.10	3.06	3.02
131	2.17	2.19	3.29	3.25	3.21	3.16	3.12
132	2.25	2.28	3.43	3.39	3.33	3.26	3.24
133	2.33	2.36	3.57	3.52	3.45	3.37	3.34
134	2.40	2.40	3.72	3.65	3.57	3.48	3.45
135	2.45	2.44	3.87	3.79	3.70	3.60	3.55
136	2.51	2.49	4.02	3.94	3.83	3.72	3.68
137	2.57	2.55	4.18	4.11	3.99	3.85	3.81
138	2.65	2.61	4.35	4.29	4.16	4.00	3.95
139	2.74	2.67	4.55	4.49	4.36	4.17	4.14
140	2.81	2.74	4.78	4.70	4.57	4.36	4.35
141	2.88	2.81	5.01	4.92	4.79	4.55	4.54
142	2.94	2.89	5.25	5.14	5.00	4.74	4.74
143	3.00	2.97	5.48	5.37	5.21	4.94	4.94
144	3.04	3.03	5.69	5.60	5.41	5.13	5.10
145	3.07	3.10	5.89	5.83	5.61	5.31	5.26
146	3.10	3.15	6.10	6.04	5.80	5.50	5.39
147	3.13	3.21	6.30	6.24	5.99	5.70	5.54
148	3.17	3.24	6.49	6.42	6.18	5.89	5.70

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**CANDELA TABULATION - (Cont.)**

<b>149</b>	3.23	3.26	6.66	6.59	6.36	6.07	5.87
<b>150</b>	3.28	3.27	6.78	6.75	6.54	6.23	6.03
<b>151</b>	3.32	3.29	6.90	6.92	6.71	6.41	6.23
<b>152</b>	3.36	3.34	7.06	7.09	6.88	6.60	6.43
<b>153</b>	3.42	3.41	7.25	7.25	7.06	6.79	6.63
<b>154</b>	3.54	3.50	7.43	7.41	7.23	6.98	6.81
<b>155</b>	3.66	3.59	7.57	7.57	7.41	7.19	6.98
<b>156</b>	3.78	3.67	7.71	7.73	7.57	7.41	7.13
<b>157</b>	3.89	3.74	7.83	7.88	7.74	7.60	7.28
<b>158</b>	3.97	3.81	7.92	8.00	7.90	7.73	7.44
<b>159</b>	4.03	3.87	7.96	8.10	8.02	7.77	7.60
<b>160</b>	4.06	3.95	7.97	8.18	8.11	7.76	7.69
<b>161</b>	4.08	4.02	7.98	8.22	8.19	7.79	7.72
<b>162</b>	4.10	4.09	8.00	8.25	8.23	7.85	7.79
<b>163</b>	4.14	4.17	8.03	8.23	8.23	7.89	7.85
<b>164</b>	4.20	4.24	8.06	8.17	8.20	7.91	7.84
<b>165</b>	4.31	4.32	8.06	8.09	8.13	7.90	7.80
<b>166</b>	4.41	4.39	8.01	8.01	8.07	7.87	7.74
<b>167</b>	4.48	4.47	7.89	7.90	7.98	7.83	7.69
<b>168</b>	4.53	4.53	7.73	7.77	7.84	7.77	7.58
<b>169</b>	4.60	4.59	7.56	7.62	7.73	7.68	7.50
<b>170</b>	4.65	4.65	7.38	7.48	7.61	7.57	7.43
<b>171</b>	4.68	4.68	7.20	7.35	7.52	7.44	7.35
<b>172</b>	4.75	4.73	7.03	7.27	7.44	7.42	7.33
<b>173</b>	4.89	4.81	6.88	7.17	7.34	7.39	7.34
<b>174</b>	5.09	4.94	6.72	7.02	7.24	7.34	7.30
<b>175</b>	5.36	5.18	6.64	6.88	7.13	7.26	7.24
<b>176</b>	5.57	5.35	6.56	6.72	6.98	7.12	7.11
<b>177</b>	5.74	5.50	6.37	6.55	6.80	6.95	6.95
<b>178</b>	5.92	5.66	6.15	6.36	6.60	6.74	6.74
<b>179</b>	6.07	5.82	5.97	6.18	6.42	6.57	6.54
<b>180</b>	6.34	6.34	6.34	6.34	6.34	6.34	6.34

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1667.67	N.A.	10.70
0-30	3656.83	N.A.	23.40
0-40	6236.22	N.A.	39.80
0-60	12190.13	N.A.	77.90
0-80	15570.52	N.A.	99.50
0-90	15640.13	N.A.	99.90
10-90	15218.35	N.A.	97.20
20-40	4568.55	N.A.	29.20
20-50	7527.96	N.A.	48.10
40-70	8363.75	N.A.	53.40
60-80	3380.39	N.A.	21.60
70-80	970.55	N.A.	6.20
80-90	69.60	N.A.	0.40
90-110	2.57	N.A.	0.00
90-120	4.23	N.A.	0.00
90-130	6.22	N.A.	0.00
90-150	11.27	N.A.	0.10
90-180	16.05	N.A.	0.10
110-180	13.48	N.A.	0.10
0-180	15656.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	421.78
10-20	1245.89
20-30	1989.16
30-40	2579.39
40-50	2959.41
50-60	2994.5
60-70	2409.84
70-80	970.55
80-90	69.60
90-100	1.13
100-110	1.44
110-120	1.66
120-130	1.99
130-140	2.38
140-150	2.68
150-160	2.49
160-170	1.71
170-180	0.58

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MPLSEL25HTT5-14000LM4K.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	94	92	94	91	89	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	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	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	26	39	32	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MPLSEL25HTT5-14000LM4K.IES**

**UGR TABLE - CORRECTED**

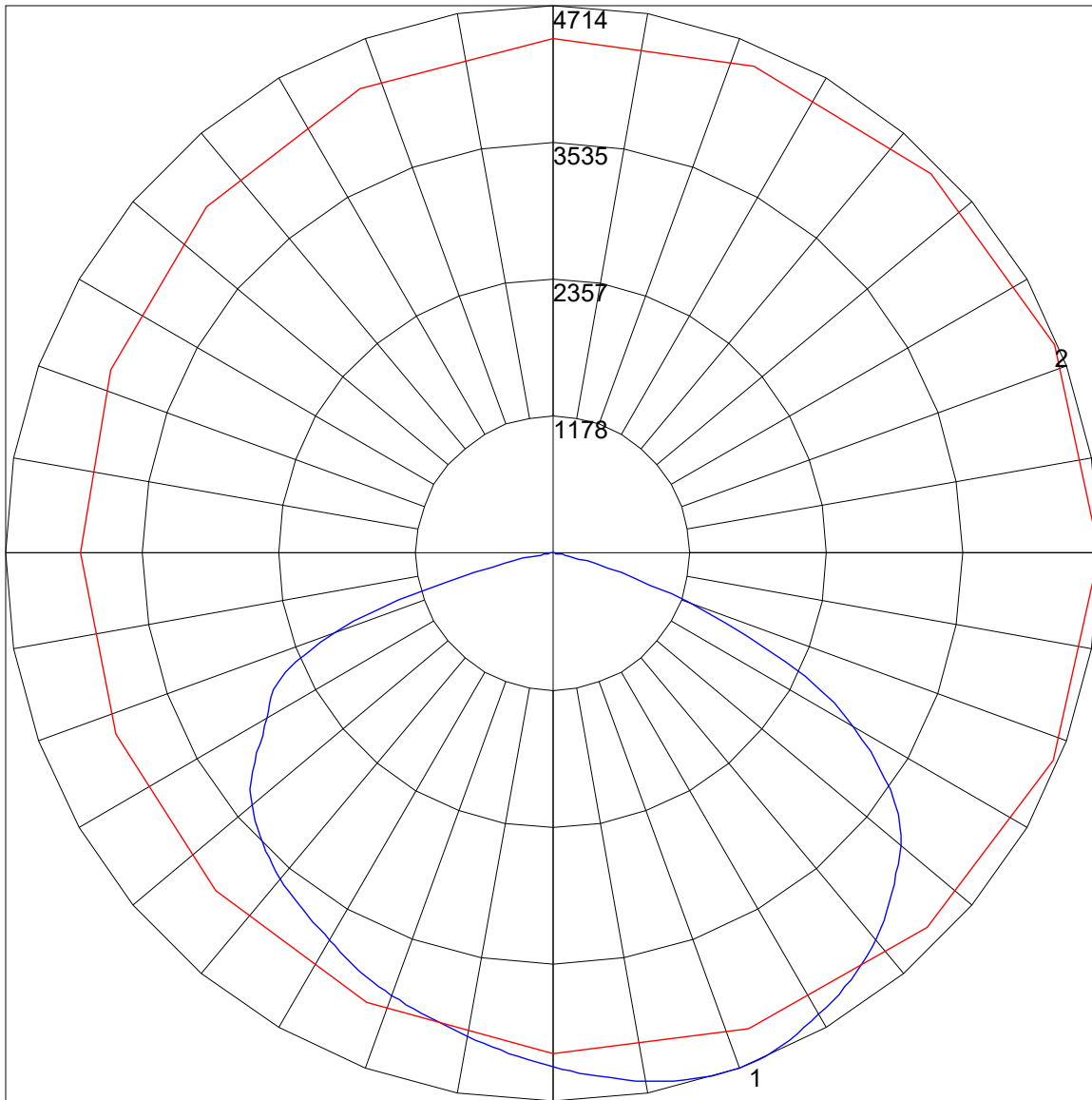
Reflectances

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	30.2	31.9	30.6	32.3	32.6	29.9	31.6	30.3	31.9	32.2
	3H	31.4	33.0	31.8	33.3	33.7	31.7	33.2	32.1	33.6	33.9
	4H	31.6	33.0	32.0	33.4	33.7	32.0	33.4	32.4	33.8	34.1
	6H	31.5	32.9	31.9	33.2	33.6	32.0	33.4	32.4	33.7	34.1
	8H	31.5	32.8	31.9	33.2	33.6	32.0	33.3	32.4	33.7	34.1
	12H	31.5	32.7	31.9	33.1	33.5	32.0	33.2	32.4	33.6	34.0
4H	2H	30.9	32.3	31.3	32.7	33.1	30.6	32.0	31.0	32.3	32.7
	3H	32.2	33.4	32.6	33.8	34.2	32.5	33.7	32.9	34.1	34.5
	4H	32.4	33.5	32.8	33.9	34.3	32.8	33.9	33.2	34.3	34.8
	6H	32.4	33.3	32.8	33.8	34.2	32.9	33.9	33.4	34.3	34.7
	8H	32.4	33.2	32.8	33.7	34.1	32.9	33.8	33.3	34.2	34.7
	12H	32.4	33.1	32.8	33.6	34.1	32.9	33.7	33.4	34.1	34.6
8H	4H	32.5	33.4	32.9	33.8	34.3	32.9	33.8	33.4	34.2	34.7
	6H	32.5	33.2	33.0	33.7	34.2	33.0	33.7	33.5	34.2	34.7
	8H	32.5	33.1	33.0	33.6	34.1	33.0	33.6	33.5	34.1	34.6
	12H	32.4	33.0	32.9	33.5	34.1	33.0	33.6	33.5	34.0	34.6
12H	4H	32.5	33.3	33.0	33.7	34.2	32.9	33.7	33.4	34.2	34.6
	6H	32.5	33.1	33.0	33.6	34.1	33.0	33.6	33.5	34.1	34.6
	8H	32.4	33.0	32.9	33.5	34.1	33.0	33.6	33.5	34.0	34.6

Maximum UGR = 34.8

POLAR GRAPH



Maximum Candela = 4713.85 Located At Horizontal Angle = 0, Vertical Angle = 19  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (19) (Through Max. Cd.)