

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLSEL4HT25WWT35120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] DG3220530-23703E-EE
[TESTLAB] Bay Area Compliance Labs Corp.
[TESTDATE] 2022-06-08
[ISSUEDATE] 2022-06-08 16:15:48
[LAMPPOSITION] 0,0
[OTHER]
[MANUFAC] BEGHELLI
[LUMCAT] SLSEL4HT25WWT35120-277V
[LAMP] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3690
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	25.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.20 m
Luminous Width (90-270)	0.09 m
Luminous Height	0.05 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8075	6351	6299
55	7436	5707	5784
65	6516	5096	5336
75	4962	4568	4976
85	2003	4219	4751

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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	965.65	965.65	965.65	965.65	965.65	965.65	965.65	965.65	965.65	965.65
1	965.53	965.26	965.41	965.67	965.76	965.66	966.08	966.12	966.12	965.65
2	964.10	964.30	964.86	965.57	965.83	965.68	966.16	966.12	965.96	965.58
3	962.71	963.17	964.11	965.28	965.63	965.72	965.97	965.90	965.77	964.76
4	961.07	961.36	962.71	964.30	965.25	965.13	965.95	965.60	964.99	963.89
5	958.74	959.34	961.13	962.74	964.85	964.42	965.00	964.23	963.89	962.40
6	956.42	957.61	959.45	961.71	963.30	963.37	963.79	963.12	962.46	961.31
7	953.26	954.61	957.44	960.31	962.15	962.45	963.04	961.25	960.62	959.24
8	950.33	951.58	954.85	958.51	960.87	960.86	960.95	959.58	958.36	956.49
9	946.81	948.24	952.10	956.29	958.84	959.15	958.61	957.08	955.40	954.16
10	943.04	944.59	949.12	953.95	956.59	956.93	956.41	954.68	952.38	951.15
11	938.80	940.81	945.86	950.96	954.46	955.22	953.58	951.55	948.98	948.05
12	934.04	936.35	942.07	948.56	951.80	952.34	950.75	948.35	945.10	944.31
13	929.41	931.73	938.07	945.06	949.42	949.65	947.28	944.34	940.67	940.09
14	923.95	927.04	934.16	941.69	946.25	946.50	944.14	940.50	936.13	935.14
15	918.18	921.39	929.54	937.97	942.90	943.33	940.09	935.90	931.43	930.78
16	912.00	915.80	925.09	933.54	939.22	939.39	935.91	931.41	925.88	925.50
17	905.41	910.48	920.26	929.51	935.48	935.36	931.74	926.17	920.39	919.97
18	899.03	903.91	914.52	924.89	931.34	931.53	926.88	920.39	914.45	914.19
19	892.20	896.96	908.79	920.60	927.18	926.73	921.76	914.80	907.85	908.21
20	884.40	890.26	902.64	915.76	922.60	922.27	916.91	908.85	901.34	901.36
21	876.92	883.01	896.60	910.36	917.63	917.13	910.52	902.23	894.22	894.68
22	868.69	875.49	890.02	904.52	912.87	911.89	905.05	895.10	886.90	887.94
23	860.19	867.41	883.20	899.42	907.33	906.27	898.80	888.15	879.10	880.44
24	851.86	859.41	876.17	893.24	902.59	900.34	892.02	880.50	871.04	872.67
25	842.43	851.20	868.83	887.12	896.37	894.91	884.93	872.71	862.54	864.07
26	833.35	842.22	861.46	880.80	890.85	888.57	878.28	864.47	853.96	856.01
27	823.68	833.79	853.49	873.69	884.83	882.25	870.60	856.04	844.54	847.54
28	814.16	824.46	845.93	867.07	878.76	875.63	863.46	847.84	835.34	838.64
29	803.54	814.97	837.54	860.18	871.77	868.77	855.38	838.39	825.71	829.48
30	792.86	804.77	829.15	852.70	865.71	861.38	846.93	828.85	815.66	819.74
31	782.19	794.92	820.25	845.47	858.52	854.27	838.51	819.30	805.18	809.68
32	771.48	784.72	811.46	837.53	851.44	847.04	830.06	809.77	794.31	799.82
33	760.11	773.90	802.45	829.94	843.95	839.21	821.12	799.22	783.46	789.70
34	748.81	762.90	793.05	821.65	836.40	831.20	811.91	788.66	772.60	779.12
35	737.40	752.29	783.24	813.59	828.66	823.23	802.49	778.24	760.57	768.17
36	725.38	741.14	773.36	805.11	820.47	814.79	793.03	767.03	748.93	757.10
37	712.85	729.99	763.35	796.27	812.55	806.19	783.08	755.59	737.33	745.74
38	700.82	718.06	753.67	787.38	803.97	797.50	773.69	744.13	724.80	733.88
39	688.16	705.98	743.40	778.35	795.92	789.06	763.15	732.06	712.25	722.30
40	675.11	693.90	733.13	769.56	787.68	779.92	752.91	720.02	699.48	710.02
41	662.32	681.58	722.29	760.65	778.89	770.55	742.24	708.08	686.30	698.04
42	649.26	669.20	711.49	751.25	770.41	761.78	731.63	695.49	672.55	685.68
43	635.68	656.74	700.57	742.00	761.47	752.01	720.54	682.58	659.18	673.15
44	622.59	643.92	689.83	732.54	752.40	742.62	709.51	669.51	645.37	660.27
45	608.91	630.96	678.72	722.95	743.29	733.00	698.45	656.59	631.47	647.17
46	595.02	618.19	667.58	712.82	733.59	722.86	687.12	643.56	617.44	634.25
47	580.78	605.03	656.29	703.14	724.61	713.17	675.80	630.22	602.79	621.17
48	566.29	591.49	644.72	693.15	714.87	703.33	664.40	616.25	588.34	607.46
49	551.70	578.12	632.99	682.84	705.22	692.93	652.44	602.67	573.41	593.97
50	537.43	564.62	621.84	672.90	695.47	682.82	640.98	588.74	558.63	580.32
51	522.82	551.03	610.06	662.36	685.58	672.55	628.95	574.95	543.63	566.55
52	507.92	537.38	598.50	652.14	675.39	662.01	617.30	560.87	527.90	552.75
53	492.90	523.63	586.87	641.64	665.50	651.16	604.90	546.44	512.96	538.93

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CANDELA TABULATION - (Cont.)

54	478.53	510.11	575.02	631.63	655.62	640.97	593.07	532.56	497.66	524.69
55	463.21	496.06	563.46	621.15	645.65	630.61	580.84	518.00	481.83	510.67
56	448.00	482.21	551.63	610.77	635.58	619.67	568.84	503.48	466.09	496.36
57	432.89	468.09	539.94	600.24	625.65	609.30	556.87	489.05	450.18	482.19
58	417.22	454.21	527.93	589.70	615.48	598.74	544.57	474.65	434.20	467.92
59	401.83	440.00	516.25	579.19	605.23	588.46	532.48	460.13	418.13	453.59
60	386.39	426.18	504.64	568.81	595.12	577.67	520.49	445.49	401.76	439.50
61	370.98	412.34	492.75	558.14	585.12	567.08	508.29	430.91	385.40	425.14
62	355.16	398.52	481.05	547.58	574.70	556.38	496.34	416.50	369.08	411.08
63	339.44	384.68	469.52	537.26	564.32	545.41	484.28	402.04	352.74	396.87
64	323.82	371.05	458.09	526.92	554.07	534.93	472.39	387.45	336.24	382.62
65	308.12	357.22	446.49	516.25	543.61	524.07	460.30	373.02	320.03	368.68
66	292.34	343.63	435.07	505.60	533.31	513.56	448.70	358.77	303.55	354.63
67	276.58	329.93	423.83	495.15	522.91	502.59	436.96	344.48	286.82	340.66
68	261.01	316.65	412.50	484.90	512.72	492.33	425.13	330.37	270.29	326.95
69	245.32	303.43	401.47	474.59	502.65	481.78	413.64	316.61	253.91	313.39
70	229.49	290.26	390.48	464.19	492.25	471.16	402.35	302.71	237.51	299.94
71	214.08	277.42	379.51	453.66	482.24	460.86	390.94	289.06	220.97	286.47
72	198.69	264.79	368.73	443.66	472.41	450.53	379.72	275.55	204.95	273.69
73	183.45	252.40	358.38	434.09	462.56	440.73	368.81	262.65	188.90	260.63
74	168.08	240.07	347.92	424.02	452.45	430.50	357.73	249.81	172.80	248.10
75	153.05	227.89	337.25	414.25	443.05	420.36	346.99	236.89	157.13	235.76
76	138.52	216.41	327.24	404.34	433.56	410.37	336.58	224.48	141.45	223.69
77	124.21	205.20	317.47	394.79	423.72	400.66	326.19	212.71	125.81	211.76
78	110.08	193.82	307.49	385.42	414.27	390.75	315.93	200.83	111.14	200.21
79	96.38	183.44	297.80	375.84	404.66	381.14	305.92	189.50	96.95	189.41
80	83.22	172.96	288.27	366.65	395.29	371.32	296.05	178.46	83.26	178.33
81	70.54	163.05	279.07	357.21	385.62	361.91	286.45	167.96	69.93	167.92
82	59.17	153.05	269.88	348.13	376.29	352.70	276.85	157.69	57.62	158.02
83	47.85	144.14	261.11	339.23	367.06	343.40	267.69	147.91	46.09	148.43
84	36.52	135.24	252.41	330.29	358.03	334.34	258.48	138.72	35.34	138.85
85	26.97	126.83	243.81	321.34	349.08	325.42	249.73	129.77	25.87	129.28
86	18.51	118.93	235.53	312.82	340.29	316.69	241.17	121.50	18.63	120.86
87	11.14	111.30	227.38	304.27	331.77	308.02	232.66	113.35	11.38	112.76
88	7.51	104.09	219.44	296.01	323.23	299.50	224.47	105.91	4.22	105.39
89	3.90	97.09	211.70	287.59	314.36	291.13	216.41	99.02	0.78	98.26
90	0.29	91.04	204.20	279.56	306.39	282.94	208.65	92.21	0.14	91.50
91	0.24	85.11	196.91	271.69	298.32	274.82	201.05	86.08	0.14	85.24
92	0.25	79.55	189.77	263.92	290.10	266.91	193.58	80.27	0.15	79.45
93	0.27	74.36	182.91	256.18	282.20	259.00	186.46	74.97	0.17	73.90
94	0.29	69.52	176.08	248.59	274.33	251.33	179.45	69.92	0.19	68.78
95	0.32	65.07	169.53	241.31	266.74	243.80	172.69	65.26	0.21	64.12
96	0.36	61.10	163.22	234.08	259.13	236.43	166.22	61.21	0.22	59.79
97	0.41	57.14	157.05	226.91	251.63	229.25	159.86	57.17	0.24	55.68
98	0.46	53.17	151.09	219.89	244.36	221.95	153.66	53.12	0.27	52.01
99	0.52	49.95	145.35	213.23	237.26	215.08	147.77	49.86	0.32	48.61
100	0.58	46.90	139.72	206.37	230.03	208.29	142.04	46.84	0.40	45.42
101	0.64	44.17	134.26	199.95	223.22	201.70	136.40	44.06	0.49	42.52
102	0.70	41.65	129.11	193.51	216.54	195.14	131.10	41.49	0.57	39.92
103	0.77	39.33	124.10	187.35	209.94	188.91	125.90	39.21	0.66	37.44
104	0.83	37.20	119.18	181.17	203.48	182.65	120.99	37.07	0.75	35.16
105	0.91	35.26	114.49	175.20	197.01	176.72	116.14	35.10	0.85	33.14
106	0.99	33.46	110.03	169.38	190.81	170.77	111.45	33.32	0.95	31.26
107	1.08	31.82	105.57	163.71	184.72	164.99	106.97	31.69	1.05	29.49
108	1.17	30.30	101.38	158.16	178.64	159.29	102.68	30.18	1.14	27.89
109	1.27	28.92	97.35	152.72	172.94	153.82	98.62	28.82	1.25	26.44

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CANDELA TABULATION - (Cont.)

110	1.37	27.66	93.47	147.43	167.18	148.49	94.62	27.55	1.35	25.06
111	1.48	26.45	89.73	142.25	161.58	143.29	90.83	26.37	1.45	23.79
112	1.59	25.37	86.11	137.15	156.07	138.22	87.18	25.30	1.56	22.66
113	1.70	24.36	82.69	132.38	150.68	133.27	83.66	24.31	1.67	21.58
114	1.81	23.42	79.35	127.56	145.48	128.39	80.26	23.36	1.77	20.54
115	1.93	22.56	76.21	122.88	140.42	123.75	77.12	22.53	1.87	19.64
116	2.04	21.74	73.17	118.48	135.54	119.30	73.98	21.75	1.97	18.78
117	2.14	21.00	70.19	114.00	130.73	114.86	71.00	20.99	2.08	17.97
118	2.25	20.30	67.38	109.80	126.05	110.57	68.12	20.31	2.19	17.21
119	2.36	19.64	64.50	105.71	121.49	106.42	65.43	19.69	2.30	16.53
120	2.47	19.03	61.97	101.72	116.98	102.43	62.81	19.09	2.41	15.86
121	2.59	18.47	59.46	97.95	112.72	98.54	60.19	18.52	2.52	15.25
122	2.70	17.93	56.94	94.16	108.48	94.74	57.57	18.02	2.63	14.68
123	2.80	17.43	54.66	90.54	104.38	91.07	55.26	17.52	2.73	14.15
124	2.91	16.94	52.46	87.05	100.41	87.58	53.04	17.03	2.83	13.63
125	3.03	16.49	50.42	83.65	96.56	84.12	50.99	16.59	2.94	13.13
126	3.14	16.06	48.39	80.30	92.81	80.76	48.95	16.19	3.04	12.64
127	3.25	15.66	46.50	77.11	89.10	77.57	47.04	15.78	3.14	12.15
128	3.37	15.29	44.68	74.07	85.65	74.43	45.16	15.40	3.24	11.72
129	3.48	14.92	42.91	71.05	82.14	71.42	43.38	15.05	3.35	11.29
130	3.60	14.59	41.24	68.15	78.80	68.47	41.71	14.72	3.44	10.88
131	3.71	14.26	39.62	65.36	75.64	65.71	40.05	14.39	3.54	10.49
132	3.82	13.95	38.07	62.61	72.51	62.95	38.49	14.09	3.64	10.14
133	3.94	13.64	36.60	59.86	69.48	60.20	36.99	13.80	3.73	9.81
134	4.05	13.36	35.17	57.11	66.53	57.44	35.59	13.51	3.82	9.49
135	4.17	13.09	33.83	54.72	63.67	55.03	34.22	13.24	3.92	9.18
136	4.28	12.83	32.51	52.37	60.81	52.67	32.87	13.00	4.00	8.88
137	4.40	12.59	31.29	50.16	57.95	50.44	31.66	12.76	4.09	8.58
138	4.52	12.36	30.09	48.03	55.48	48.26	30.43	12.53	4.18	8.29
139	4.65	12.14	28.95	45.95	53.01	46.20	29.29	12.32	4.26	7.91
140	4.77	11.94	27.88	43.96	50.68	44.17	28.21	12.11	4.33	7.17
141	4.90	11.75	26.83	42.06	48.40	42.27	27.14	11.92	4.41	6.91
142	5.02	11.56	25.84	40.24	46.24	40.40	26.12	11.74	4.50	6.89
143	5.15	11.37	24.87	38.47	44.13	38.63	25.15	11.55	4.58	6.68
144	5.27	11.20	23.96	36.78	42.14	36.93	24.21	11.37	4.66	6.49
145	5.38	11.03	23.06	35.15	40.16	35.29	23.32	11.20	4.73	6.33
146	5.48	10.87	22.18	33.55	38.29	33.69	22.44	11.00	4.79	6.21
147	5.55	10.71	21.36	32.04	36.48	32.16	21.60	10.74	4.82	5.99
148	5.60	10.55	20.56	30.58	34.73	30.68	20.78	10.45	4.84	5.63
149	5.63	10.40	19.79	29.16	33.06	29.27	20.00	10.19	4.85	5.32
150	5.67	10.25	19.05	27.82	31.42	27.92	19.26	10.04	4.86	5.07
151	5.72	10.11	18.35	26.52	29.94	26.62	18.55	9.79	4.87	4.80
152	5.76	9.97	17.67	25.26	28.44	25.37	17.85	9.58	4.88	4.53
153	5.77	9.84	17.01	24.09	27.04	24.17	17.19	9.47	4.89	4.46
154	5.79	9.72	16.38	22.94	25.67	23.05	16.55	9.36	4.90	4.59
155	5.83	9.60	15.78	21.84	24.38	21.93	15.94	9.12	4.91	4.68
156	5.84	9.48	15.20	20.80	23.14	20.89	15.35	9.00	4.91	4.67
157	5.83	9.37	14.64	19.78	21.93	19.87	14.79	8.89	4.90	4.66
158	5.81	9.26	14.09	18.82	20.80	18.90	14.15	8.55	4.90	4.50
159	5.78	9.14	13.55	17.88	19.67	17.95	13.41	8.27	4.88	4.43
160	5.74	9.02	13.06	16.99	18.62	17.06	12.62	8.04	4.86	4.44
161	5.70	8.87	12.57	16.13	17.61	16.20	11.94	7.76	4.84	4.45
162	5.64	8.67	12.10	15.33	16.63	15.37	11.28	7.45	4.81	4.44
163	5.58	8.44	11.64	14.55	15.72	14.59	10.61	7.17	4.78	4.47
164	5.51	8.19	11.20	13.78	14.84	13.82	9.74	6.92	4.74	4.46
165	5.43	7.94	10.79	13.07	14.00	13.11	9.19	6.68	4.71	4.47

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CANDELA TABULATION - (Cont.)

166	5.36	7.69	10.40	12.41	13.22	12.31	8.72	6.42	4.67	4.46
167	5.39	7.45	10.03	11.78	12.49	11.48	8.42	6.14	4.68	4.46
168	5.39	7.16	9.71	11.19	11.80	10.69	8.06	5.91	4.75	4.58
169	5.47	6.77	9.36	10.63	11.16	9.95	7.88	5.83	4.83	4.71
170	5.52	6.39	8.94	10.14	10.57	9.10	7.42	5.85	4.90	4.83
171	5.54	6.00	8.44	9.67	10.01	8.52	7.01	5.92	4.98	4.93
172	5.58	5.89	7.92	9.18	9.51	7.84	6.61	5.97	5.07	5.03
173	5.60	5.88	7.45	8.56	8.91	6.91	6.21	5.99	5.16	5.14
174	5.65	5.89	6.89	7.88	8.18	6.16	5.93	6.02	5.27	5.25
175	5.71	5.87	6.54	7.27	7.48	5.41	5.92	6.05	5.38	5.36
176	5.77	5.86	6.19	6.86	6.98	5.19	5.89	6.05	5.49	5.47
177	5.81	5.86	6.10	6.44	6.21	5.20	5.78	5.96	5.60	5.58
178	5.86	5.87	5.99	6.03	5.45	5.21	5.75	5.95	5.72	5.71
179	5.87	5.85	5.80	5.63	4.54	5.18	5.69	5.93	5.83	5.81
180	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89

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	965.65	965.65	965.65	965.65	965.65	965.65	965.65
1	965.59	965.56	965.52	964.61	964.40	964.42	965.53
2	965.14	965.29	964.60	964.01	963.52	963.20	964.10
3	964.41	964.27	963.75	962.39	961.97	961.05	962.71
4	963.40	963.17	962.71	960.61	960.45	959.52	961.07
5	961.61	962.04	961.09	959.47	958.27	957.22	958.74
6	960.69	960.10	959.22	957.26	956.38	954.47	956.42
7	958.33	958.39	957.35	954.88	953.50	951.73	953.26
8	956.03	956.24	955.06	952.23	950.55	948.69	950.33
9	953.26	953.58	952.43	949.62	947.47	944.66	946.81
10	950.85	951.10	949.62	946.25	943.46	940.92	943.04
11	947.46	947.96	946.78	942.93	939.64	936.11	938.80
12	943.68	945.03	943.23	938.98	935.36	931.68	934.04
13	940.04	941.01	939.93	935.40	930.71	926.97	929.41
14	935.92	937.31	936.07	931.32	925.94	921.17	923.95
15	931.62	933.27	931.83	926.61	921.02	915.39	918.18
16	927.00	929.27	927.33	922.11	915.82	909.49	912.00
17	921.66	924.27	923.06	916.74	909.82	902.99	905.41
18	916.37	919.11	918.24	911.87	903.74	896.92	899.03
19	910.79	913.87	912.91	905.88	897.79	889.78	892.20
20	905.24	909.09	907.95	900.14	891.32	882.26	884.40
21	899.18	903.62	902.24	894.72	884.76	874.77	876.92
22	892.37	897.33	896.47	888.49	877.65	867.14	868.69
23	885.49	891.23	890.47	881.84	870.53	859.01	860.19
24	878.79	884.87	884.51	875.28	862.88	850.65	851.86
25	871.85	878.27	877.67	868.76	855.08	842.04	842.43
26	864.22	871.63	871.32	861.36	847.25	833.25	833.35
27	856.24	864.73	864.64	853.77	838.89	824.33	823.68
28	848.71	857.25	857.48	846.52	830.14	814.58	814.16
29	840.36	849.49	850.24	838.81	821.53	804.87	803.54
30	831.47	842.43	842.83	830.81	812.63	794.75	792.86
31	823.18	834.31	835.26	822.81	803.46	784.65	782.19
32	814.03	826.41	827.43	814.61	794.52	774.00	771.48
33	805.25	818.00	819.04	806.11	784.92	763.27	760.11
34	795.52	809.66	811.31	797.80	775.44	751.99	748.81
35	786.34	801.23	802.79	789.01	765.67	741.12	737.40
36	776.27	792.38	794.61	779.87	755.27	729.67	725.38

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CANDELA TABULATION - (Cont.)

37	766.73	783.58	785.97	771.28	745.42	717.96	712.85
38	756.00	774.33	777.17	761.91	734.84	705.98	700.82
39	745.82	765.46	768.65	752.59	724.27	694.07	688.16
40	735.47	755.90	759.67	742.98	713.51	682.14	675.11
41	724.86	746.49	750.39	733.67	702.72	670.00	662.32
42	714.01	736.76	741.09	723.74	691.75	657.61	649.26
43	702.84	726.87	731.78	713.81	680.53	644.67	635.68
44	691.94	717.33	722.29	704.02	669.54	632.21	622.59
45	680.82	707.29	712.61	693.94	658.37	619.39	608.91
46	669.42	697.22	703.03	683.78	647.02	606.58	595.02
47	657.88	686.97	693.00	673.83	635.68	593.34	580.78
48	646.37	676.85	683.14	663.87	623.92	579.79	566.29
49	634.86	666.52	673.42	653.31	612.55	566.69	551.70
50	623.20	656.55	663.46	642.97	601.25	552.91	537.43
51	611.51	645.78	653.52	632.61	589.37	539.38	522.82
52	599.94	635.23	643.55	622.22	578.06	525.89	507.92
53	588.18	624.95	633.07	611.71	566.22	512.26	492.90
54	576.13	614.34	622.89	601.01	554.32	498.41	478.53
55	564.18	603.41	612.61	590.47	542.85	484.66	463.21
56	552.57	592.85	602.61	580.07	530.94	471.05	448.00
57	540.46	582.12	592.12	569.58	518.98	457.16	432.89
58	528.66	571.40	581.95	558.82	507.34	443.27	417.22
59	516.49	560.96	571.49	548.12	495.58	429.54	401.83
60	504.72	550.14	561.43	538.02	484.10	415.63	386.39
61	492.81	539.52	550.98	527.36	472.42	401.70	370.98
62	481.07	528.97	540.52	516.78	460.48	387.91	355.16
63	469.41	518.37	530.51	506.20	449.35	374.25	339.44
64	457.54	507.64	520.27	495.65	437.89	360.65	323.82
65	446.08	497.05	509.91	485.37	426.54	346.96	308.12
66	434.48	486.63	499.80	474.91	415.32	333.88	292.34
67	422.81	476.10	489.65	464.62	404.00	320.25	276.58
68	411.46	465.56	479.22	454.32	393.07	307.04	261.01
69	400.44	455.25	469.18	444.22	382.24	294.02	245.32
70	389.03	445.14	459.09	434.20	371.34	280.95	229.49
71	378.24	434.75	449.16	424.29	360.54	268.13	214.08
72	367.30	424.77	439.44	414.24	350.01	255.77	198.69
73	356.51	414.82	429.60	404.40	339.72	243.47	183.45
74	345.65	404.67	419.74	394.63	329.25	231.16	168.08
75	335.14	395.06	410.28	385.22	319.25	219.37	153.05
76	324.97	385.29	400.81	375.57	309.14	207.99	138.52
77	314.60	375.36	391.28	366.17	299.45	196.45	124.21
78	304.65	365.93	381.95	356.65	289.65	185.47	110.08
79	294.90	356.60	372.40	347.54	280.29	175.09	96.38
80	284.96	347.22	363.32	338.36	270.90	164.76	83.22
81	275.59	337.94	354.36	329.24	261.87	154.77	70.54
82	266.40	328.94	345.52	320.45	253.06	144.83	59.17
83	257.04	319.94	336.54	311.84	244.23	134.93	47.85
84	248.12	311.00	327.77	303.14	235.55	126.42	36.52
85	239.38	302.41	319.31	294.67	227.17	118.09	26.97
86	230.84	293.88	310.85	286.33	219.20	110.24	18.51
87	222.56	285.49	302.42	278.09	211.30	102.68	11.14
88	214.39	277.27	294.35	270.22	203.46	95.64	7.51
89	206.55	269.23	286.12	262.20	195.87	89.14	3.90
90	198.78	261.23	278.22	254.57	188.52	82.81	0.29
91	191.21	253.29	270.47	246.89	181.39	77.03	0.24
92	184.09	245.63	262.92	239.63	174.59	71.58	0.25

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CANDELA TABULATION - (Cont.)

93	176.93	238.19	255.29	232.17	167.65	66.61	0.27
94	169.98	230.85	247.74	224.88	161.28	61.83	0.29
95	163.41	223.61	240.51	217.99	154.89	57.60	0.32
96	157.01	216.65	233.52	211.11	148.67	53.61	0.36
97	150.85	209.63	226.40	204.25	142.45	49.87	0.41
98	144.62	202.99	219.79	197.66	136.25	46.57	0.46
99	138.39	196.31	212.87	191.24	130.62	43.46	0.52
100	132.17	189.86	206.25	185.05	125.26	40.61	0.58
101	126.82	183.56	199.82	178.92	120.21	38.00	0.64
102	121.65	177.37	193.57	172.90	115.21	35.67	0.70
103	116.58	171.40	187.45	167.07	110.45	33.47	0.77
104	111.66	165.59	181.49	161.41	105.80	31.46	0.83
105	107.02	159.87	175.53	155.82	101.43	29.65	0.91
106	102.55	154.39	169.69	150.51	97.16	27.99	0.99
107	98.22	149.19	164.14	145.01	93.03	26.40	1.08
108	94.04	143.36	158.74	139.51	89.11	25.02	1.17
109	90.02	137.54	153.34	134.02	85.31	23.74	1.27
110	86.13	132.49	147.90	129.19	81.65	22.50	1.37
111	82.41	127.66	142.47	124.51	78.19	21.39	1.48
112	78.92	122.98	137.05	119.87	74.82	20.39	1.59
113	75.48	118.41	132.15	115.41	71.57	19.43	1.70
114	72.17	113.97	127.40	111.09	68.50	18.54	1.81
115	69.08	109.60	122.82	106.89	65.56	17.77	1.93
116	66.09	105.41	118.34	102.79	62.73	16.99	2.04
117	63.20	101.35	113.97	98.84	59.99	16.28	2.14
118	60.44	97.40	109.74	94.95	57.42	15.64	2.25
119	57.82	93.51	105.55	91.20	54.93	15.03	2.36
120	55.25	89.80	101.52	87.56	52.50	14.45	2.47
121	52.85	86.18	97.61	84.08	50.24	13.92	2.59
122	50.53	82.62	93.78	80.60	48.05	13.44	2.70
123	48.25	79.21	89.98	77.30	45.92	12.98	2.80
124	46.12	75.91	86.41	74.14	43.91	12.51	2.91
125	44.08	72.77	82.89	71.02	41.99	12.04	3.03
126	42.09	69.72	79.45	68.03	40.09	11.65	3.14
127	40.17	66.70	76.22	65.14	38.31	11.27	3.25
128	38.33	63.80	72.95	62.32	36.64	10.96	3.37
129	36.62	61.00	69.81	59.62	35.02	10.63	3.48
130	34.94	58.25	66.79	56.98	33.49	10.33	3.60
131	33.32	55.61	63.87	54.48	32.02	10.06	3.71
132	31.78	53.06	60.98	51.98	30.58	9.78	3.82
133	30.29	50.60	58.22	49.60	29.20	9.51	3.94
134	28.85	48.22	55.61	47.36	27.95	9.27	4.05
135	27.47	45.87	52.95	45.17	26.75	9.04	4.17
136	26.11	43.60	50.46	43.10	25.60	8.84	4.28
137	24.79	41.43	48.04	41.09	24.52	8.67	4.40
138	23.57	39.34	45.67	39.10	23.47	8.49	4.52
139	22.39	37.34	43.44	37.27	22.49	8.33	4.65
140	21.19	35.37	41.24	35.50	21.56	8.20	4.77
141	20.08	33.46	39.14	33.79	20.70	8.10	4.90
142	18.95	31.61	37.10	32.18	19.89	8.00	5.02
143	17.88	29.82	35.13	30.65	19.15	7.94	5.15
144	16.84	28.13	33.25	29.16	18.45	7.88	5.27
145	15.82	26.48	31.43	27.76	17.78	7.83	5.38
146	14.79	24.85	29.69	26.41	17.15	7.79	5.48
147	13.86	23.34	28.00	25.10	16.54	7.75	5.55
148	13.03	21.86	26.38	23.84	15.95	7.71	5.60

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CANDELA TABULATION - (Cont.)

149	12.20	20.46	24.84	22.66	15.39	7.69	5.63
150	11.37	19.14	23.37	21.51	14.89	7.66	5.67
151	10.67	17.86	21.95	20.40	14.36	7.63	5.72
152	9.99	16.62	20.58	19.35	13.86	7.62	5.76
153	9.37	15.44	19.30	18.33	13.36	7.61	5.77
154	8.73	14.36	18.08	17.36	12.86	7.61	5.79
155	7.54	13.43	16.87	16.41	12.36	7.60	5.83
156	7.06	12.50	15.72	15.49	11.86	7.57	5.84
157	6.63	11.57	14.61	14.57	11.42	7.52	5.83
158	6.34	10.79	13.68	13.69	10.99	7.45	5.81
159	5.89	10.05	12.75	12.91	10.56	7.32	5.78
160	5.43	9.36	11.82	12.13	10.13	7.14	5.74
161	5.01	8.63	11.04	11.35	9.70	6.91	5.70
162	4.81	8.01	10.32	10.68	9.28	6.66	5.64
163	4.43	7.45	9.63	10.04	8.86	6.41	5.58
164	4.31	6.46	8.99	9.43	8.46	6.17	5.51
165	4.50	5.70	8.46	8.85	8.11	5.95	5.43
166	4.66	5.30	8.04	8.36	7.69	5.74	5.36
167	4.72	4.95	7.56	7.91	7.16	5.63	5.39
168	4.82	4.53	6.89	7.34	6.63	5.71	5.39
169	4.83	4.43	6.20	6.71	6.19	5.89	5.47
170	4.79	4.56	5.56	6.18	5.82	5.99	5.52
171	4.80	4.77	4.99	5.75	5.76	5.96	5.54
172	4.82	4.91	4.49	5.75	5.99	5.89	5.58
173	4.90	5.01	4.41	6.03	6.11	5.83	5.60
174	5.01	5.05	4.57	5.80	6.03	5.71	5.65
175	5.09	5.08	4.43	5.64	5.88	5.51	5.71
176	5.21	5.12	4.46	4.97	5.70	5.37	5.77
177	5.35	5.10	4.60	4.80	5.42	5.36	5.81
178	5.50	5.18	4.68	4.38	5.24	5.38	5.86
179	5.68	5.41	4.96	3.98	5.06	5.48	5.87
180	5.89	5.89	5.89	5.89	5.89	5.89	5.89

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	354.19	N.A.	9.60
0-30	755.30	N.A.	20.50
0-40	1245.57	N.A.	33.80
0-60	2266.08	N.A.	61.40
0-80	3028.76	N.A.	82.10
0-90	3264.23	N.A.	88.50
10-90	3172.8	N.A.	86.00
20-40	891.39	N.A.	24.20
20-50	1413.57	N.A.	38.30
40-70	1449.81	N.A.	39.30
60-80	762.68	N.A.	20.70
70-80	333.38	N.A.	9.00
80-90	235.47	N.A.	6.40
90-110	268.43	N.A.	7.30
90-120	337.30	N.A.	9.10
90-130	379.36	N.A.	10.30
90-150	416.37	N.A.	11.30
90-180	425.52	N.A.	11.50
110-180	157.09	N.A.	4.30
0-180	3689.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.43
10-20	262.76
20-30	401.11
30-40	490.27
40-50	522.18
50-60	498.32
60-70	429.31
70-80	333.38
80-90	235.47
90-100	160.97
100-110	107.46
110-120	68.86
120-130	42.07
130-140	24.14
140-150	12.86
150-160	6.16
160-170	2.41
170-180	0.58

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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	105	105	105	98	98	98	91	91	91	88
1	104	98	93	88	100	95	90	86	88	84	81	82	79	76	77	74	72	69
2	93	84	77	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	57	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	62	54	47	58	51	45	55	48	43	51	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39	49	42	37	46	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	38	32	41	36	31	29
7	60	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	25
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	52	39	30	25	50	38	30	24	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	30	24	20	18

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UGR TABLE - CORRECTED

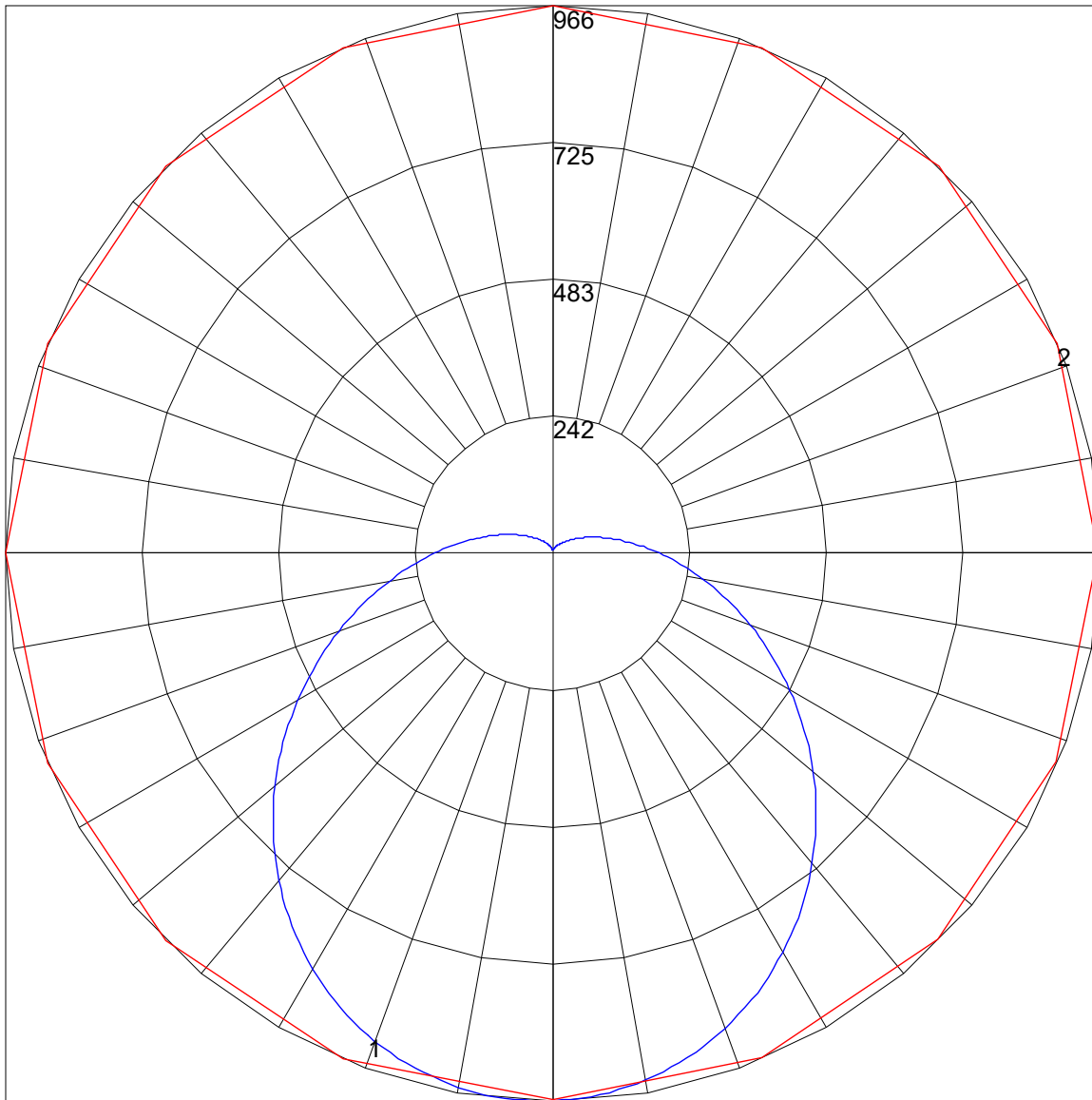
Reflectances

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	15.5	17.0	16.1	17.5	18.1	18.8	20.3	19.4	20.8	21.4
	3H	16.9	18.3	17.5	18.8	19.5	21.5	22.8	22.1	23.4	24.0
	4H	17.4	18.6	17.9	19.2	19.8	22.8	24.1	23.4	24.7	25.3
	6H	17.6	18.8	18.2	19.4	20.0	24.3	25.4	24.9	26.0	26.7
	8H	17.6	18.8	18.2	19.4	20.0	25.0	26.1	25.6	26.7	27.4
	12H	17.6	18.7	18.3	19.3	20.0	25.8	26.9	26.4	27.5	28.2
4H	2H	16.6	17.8	17.2	18.4	19.1	19.2	20.5	19.8	21.0	21.7
	3H	18.2	19.3	18.8	19.9	20.6	22.1	23.2	22.7	23.8	24.4
	4H	18.8	19.8	19.4	20.4	21.1	23.6	24.6	24.2	25.2	25.9
	6H	19.2	20.1	19.8	20.7	21.4	25.2	26.1	25.8	26.7	27.4
	8H	19.3	20.1	19.9	20.7	21.5	26.1	26.9	26.7	27.5	28.2
	12H	19.3	20.1	20.0	20.7	21.4	27.0	27.7	27.6	28.4	29.1
8H	4H	19.7	20.5	20.3	21.2	21.9	23.8	24.6	24.4	25.2	26.0
	6H	20.3	21.0	20.9	21.7	22.4	25.6	26.3	26.2	26.9	27.7
	8H	20.5	21.1	21.1	21.8	22.5	26.5	27.2	27.2	27.9	28.6
	12H	20.6	21.1	21.2	21.8	22.6	27.6	28.2	28.3	28.9	29.7
12H	4H	20.0	20.7	20.6	21.4	22.1	23.8	24.5	24.4	25.2	25.9
	6H	20.7	21.3	21.4	22.0	22.8	25.6	26.2	26.3	26.9	27.7
	8H	21.0	21.5	21.6	22.2	23.0	26.6	27.2	27.3	27.9	28.7

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 966.16 Located At Horizontal Angle = 135, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)