



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SPYLED4WT40MWB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 6,967
 [TESTLAB] CSA Group
 [ISSUE DATE] 12/16/2013 11:18:54 AM
 [MANUFAC] Beghelli
 [LUMINAIRE] SPY LED IP60IP684WT41 HBD 24V RAW
 [_ AMBIENT] 24.9 deg C
 [_ POWERFACTOR] 0.971
 [_ATHD] 7.34%
 [_CURRENT] 0.22
 [_VOLTAGE] 120.21
 [_STABILIZATION] 47:14.3 Stable
 [_POWER VARIATION] 0.30 %
 [_LIGHT VARIATION] 0.50 %
 [_Lumens] 1,999.93

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2010
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	26.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.26
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.36
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

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

	0	10	20	30	40	50	60	70	80	90
0.0	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86
2.5	6481.50	6147.89	6265.28	6257.83	6403.22	6448.00	6545.85	6625.34	6611.83	6609.71
5.0	4783.85	4552.93	4815.37	5038.40	5315.18	5722.71	6050.60	6321.22	6492.12	6559.13
7.5	3346.04	3128.52	3343.44	3653.00	4103.72	4647.62	5433.63	6026.86	6491.69	6542.37
10.0	1958.68	1848.66	2040.57	2375.37	2936.72	3748.64	4629.88	5750.97	6484.08	6627.08
12.5	1107.70	1061.61	1162.07	1447.48	1984.97	2804.99	3982.84	5355.99	6385.63	6709.69
15.0	661.30	632.75	702.60	852.42	1234.92	1960.05	3222.07	4678.67	5921.04	6649.57
17.5	422.20	401.81	437.95	533.34	766.26	1333.89	2491.97	4091.97	5252.55	5937.15
20.0	281.15	272.85	288.43	361.22	495.86	894.89	1751.53	3119.51	4434.09	4845.67
22.5	206.49	196.28	206.66	254.98	361.24	577.01	1118.98	2224.28	3509.95	3918.06
25.0	157.77	150.44	160.29	197.92	267.47	366.63	728.60	1585.29	2635.28	2998.12
27.5	128.17	121.58	128.36	158.72	195.50	260.42	482.70	1065.38	1850.80	2135.37
30.0	105.17	101.41	105.73	128.31	142.47	191.14	322.29	704.00	1313.33	1531.30
32.5	87.77	84.75	85.48	99.72	106.79	140.38	233.42	450.67	849.77	1036.22
35.0	74.43	71.80	70.99	77.57	83.56	110.25	164.19	313.94	602.10	721.04
37.5	64.38	63.08	63.06	61.91	66.68	89.66	129.27	215.03	399.11	495.30
40.0	57.80	57.30	57.74	51.82	56.74	74.09	98.11	159.77	292.14	365.68
42.5	53.88	49.14	50.32	45.63	49.85	64.59	81.18	115.15	208.40	263.92
45.0	56.70	42.37	44.82	40.85	44.48	54.85	63.49	87.37	147.56	189.13
47.5	55.67	38.58	40.43	36.76	41.16	47.64	52.50	66.96	109.06	141.24
50.0	46.75	35.14	35.28	32.83	37.44	38.74	44.10	55.79	88.78	114.15
52.5	37.88	31.89	31.92	29.28	34.51	32.75	38.90	50.92	70.68	90.49
55.0	31.06	28.78	29.19	26.58	29.85	28.06	34.97	40.53	55.24	71.63
57.5	26.55	26.57	25.25	24.67	25.08	24.52	28.81	31.39	43.19	57.38
60.0	22.57	23.91	21.57	22.56	21.11	21.17	23.68	25.97	35.44	48.05
62.5	19.19	21.44	18.16	18.49	17.98	17.81	20.19	21.77	29.66	40.75
65.0	16.71	18.95	15.47	15.55	15.53	15.25	17.49	18.44	24.83	34.38
67.5	14.14	15.77	13.24	13.28	13.58	13.13	14.91	15.37	20.97	29.91
70.0	11.88	12.81	11.35	11.23	11.31	11.71	12.10	12.89	17.66	26.04
72.5	9.33	10.08	9.46	9.61	9.35	9.73	10.05	11.06	15.17	22.18
75.0	7.17	7.67	8.09	7.86	8.42	7.88	8.42	8.96	12.46	18.75
77.5	5.28	5.67	6.77	6.41	6.85	6.43	6.84	7.16	10.21	16.08
80.0	3.77	4.13	5.19	5.04	4.92	4.89	5.47	5.71	8.26	13.38
82.5	2.57	3.06	3.88	3.83	3.77	3.97	4.29	4.70	6.79	11.55
85.0	1.63	1.84	2.71	2.97	2.91	3.28	3.46	3.73	5.81	10.07
87.5	1.10	1.41	1.95	2.23	2.52	2.61	3.07	3.25	5.21	8.98
90.0	0.82	1.03	1.62	1.92	2.20	2.26	2.52	2.86	4.70	8.14
92.5	0.82	0.96	1.15	1.82	1.79	2.05	2.32	2.54	3.98	7.45
95.0	0.74	0.78	0.99	1.47	1.67	1.84	2.09	2.42	3.90	6.95
97.5	0.74	0.60	1.05	1.32	1.42	1.63	1.92	2.21	3.63	6.27
100.0	0.83	0.82	0.88	1.14	1.30	1.56	1.81	2.10	3.47	6.18
102.5	0.84	0.87	0.95	1.09	1.32	1.51	1.72	1.98	3.46	6.01
105.0	0.74	0.71	0.97	0.97	1.11	1.39	1.60	1.91	3.23	5.79
107.5	0.73	0.77	0.76	0.79	1.07	1.27	1.60	2.05	3.08	5.23
110.0	0.84	0.77	0.87	1.07	1.13	1.22	1.54	1.82	2.78	4.56
112.5	0.78	0.75	0.84	0.89	1.01	1.25	1.45	1.67	2.46	3.89
115.0	0.92	0.80	0.83	1.03	1.15	1.17	1.42	1.62	2.34	3.57
117.5	0.75	0.67	0.83	0.94	1.10	1.17	1.56	1.54	2.27	3.27
120.0	0.72	0.91	0.81	0.86	1.01	1.28	1.51	1.58	2.41	3.07
122.5	0.89	0.83	0.71	0.87	1.07	1.34	1.47	1.72	2.24	2.88
125.0	0.84	0.85	0.81	0.84	1.12	1.23	1.53	1.71	2.30	2.88
127.5	0.85	0.92	0.89	0.95	0.88	1.39	1.50	1.78	2.28	2.83
130.0	0.87	0.74	0.72	0.91	1.26	1.28	1.53	1.90	2.52	2.96
132.5	0.93	0.97	0.97	0.94	1.25	1.52	1.62	1.96	2.71	2.95

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CANDELA TABULATION - (Cont.)

135.0	1.01	1.00	1.07	1.17	1.22	1.70	1.92	2.31	2.79	3.10
137.5	1.26	1.21	1.31	1.32	1.54	1.79	2.08	2.35	2.97	3.24
140.0	1.26	1.24	1.55	1.52	1.74	1.95	2.41	2.68	3.10	3.32
142.5	1.63	1.70	1.65	1.98	2.02	2.34	2.59	2.98	3.45	3.49
145.0	1.99	2.04	2.06	2.23	2.43	2.49	2.83	3.14	3.47	3.84
147.5	2.34	2.43	2.60	2.51	2.71	2.81	3.16	3.26	3.69	3.87
150.0	2.65	2.73	2.83	2.83	3.03	3.12	3.39	3.58	3.91	3.82
152.5	3.11	3.14	3.11	3.23	3.31	3.44	3.44	3.83	4.05	4.11
155.0	3.57	3.54	3.47	3.50	3.68	3.81	3.90	3.95	4.20	4.32
157.5	3.78	3.81	3.81	3.85	3.89	4.06	4.07	4.34	4.49	4.53
160.0	4.12	4.35	4.15	4.18	4.30	4.30	4.47	4.41	4.54	4.72
162.5	4.59	4.54	4.50	4.51	4.43	4.50	4.69	4.79	4.77	4.97
165.0	4.83	4.78	4.77	4.84	4.76	4.85	4.85	5.05	5.12	5.23
167.5	4.94	5.15	5.12	5.14	5.05	5.19	5.22	5.16	5.46	5.60
170.0	5.43	5.37	5.56	5.49	5.35	5.70	5.67	5.75	5.86	5.84
172.5	5.74	5.91	5.90	5.78	5.82	5.87	5.91	5.95	6.26	6.10
175.0	6.12	6.05	6.02	6.06	6.06	6.00	6.08	6.12	6.30	6.15
177.5	6.27	6.33	6.21	6.15	6.26	6.24	6.24	6.43	6.48	6.53
180.0	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86
2.5	6600.88	6471.19	6365.56	6195.49	6126.09	6029.10	5989.87	5990.33	6414.00	6488.64
5.0	6395.14	6080.06	5738.01	5306.27	4894.54	4713.14	4491.72	4369.12	4812.80	5129.06
7.5	6257.83	5747.44	5070.02	4380.75	3805.72	3343.27	3087.03	2910.09	3450.37	3588.36
10.0	6249.79	5361.74	4310.68	3335.73	2630.03	2150.05	1839.37	1744.36	2118.63	2174.37
12.5	6106.71	4701.38	3517.99	2411.68	1666.13	1294.89	1135.15	1066.81	1280.11	1355.39
15.0	5782.64	4274.62	2774.89	1647.90	1086.07	901.74	711.57	672.34	805.73	846.58
17.5	5050.32	3542.29	2075.05	1152.30	711.96	570.78	451.15	432.78	516.02	535.67
20.0	4050.88	2663.75	1424.84	795.71	473.29	347.82	290.36	289.19	345.32	351.67
22.5	3112.56	1817.26	916.85	494.43	339.58	243.48	210.29	211.65	251.21	251.45
25.0	2306.25	1265.18	602.65	337.70	250.33	191.49	161.29	161.53	191.36	189.59
27.5	1570.96	850.23	421.81	242.86	191.07	157.03	131.53	131.24	155.75	152.86
30.0	1115.85	573.07	282.10	182.60	148.03	130.31	112.58	111.83	130.37	127.78
32.5	723.33	372.58	209.74	136.82	111.70	105.28	94.87	95.28	110.16	108.19
35.0	492.10	273.41	147.38	109.71	85.88	86.48	77.86	77.44	92.01	88.11
37.5	335.24	187.39	122.27	87.43	70.68	69.58	64.17	64.15	77.99	72.36
40.0	246.11	143.30	95.93	74.82	62.08	58.62	55.31	55.12	67.72	63.82
42.5	176.15	106.69	81.14	64.21	53.77	51.14	49.63	49.01	60.22	57.35
45.0	127.11	80.54	63.73	57.10	47.73	45.81	45.66	44.90	57.83	50.72
47.5	95.81	63.11	51.84	49.85	42.08	41.27	41.71	41.23	56.31	45.40
50.0	79.58	53.40	43.46	40.60	38.91	36.47	39.16	39.09	49.91	40.48
52.5	63.96	49.27	38.23	33.75	36.21	32.34	35.85	36.27	45.47	36.88
55.0	49.67	39.30	33.39	28.46	32.44	28.15	31.69	33.89	39.63	32.72
57.5	38.90	30.59	27.68	24.88	26.78	25.63	27.58	30.63	31.89	29.26
60.0	31.94	25.53	22.64	21.28	22.50	22.68	22.96	25.20	26.40	26.68
62.5	26.94	21.50	19.84	17.68	18.82	18.24	18.98	21.32	22.77	23.82
65.0	22.39	18.28	17.19	15.47	15.63	15.23	15.87	18.85	18.82	20.81
67.5	18.84	15.20	14.63	13.43	13.61	12.81	13.13	15.71	15.55	17.26
70.0	16.10	12.68	12.01	11.68	11.23	10.83	11.10	12.26	12.75	13.48
72.5	13.71	11.04	10.04	9.80	9.46	9.40	9.30	9.32	10.13	10.53
75.0	11.09	8.93	8.32	7.93	8.19	7.70	7.67	6.99	7.84	8.34
77.5	9.15	6.94	6.80	6.27	6.64	6.24	6.39	5.31	5.80	6.60
80.0	7.39	5.57	5.23	4.95	4.93	4.95	4.88	3.99	4.06	4.52

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CANDELA TABULATION - (Cont.)

82.5	6.12	4.68	4.11	3.90	3.74	3.84	3.53	2.74	2.89	3.44
85.0	5.27	3.83	3.39	3.26	3.08	2.73	2.53	1.96	1.83	2.37
87.5	4.45	3.29	2.92	2.85	2.49	2.23	1.92	1.22	1.17	1.56
90.0	4.13	2.73	2.66	2.18	2.25	1.90	1.52	1.05	0.92	1.26
92.5	3.59	2.56	2.37	1.98	1.76	1.54	1.17	0.80	0.86	1.02
95.0	3.40	2.31	2.08	1.88	1.51	1.25	1.04	0.77	0.73	0.94
97.5	3.06	2.29	1.83	1.67	1.39	1.17	1.00	0.89	0.86	0.66
100.0	3.06	2.13	1.78	1.64	1.18	1.06	0.97	0.90	0.83	0.77
102.5	3.05	1.97	1.50	1.34	1.24	1.07	0.80	0.81	0.88	0.79
105.0	2.79	2.02	1.67	1.33	1.08	0.81	0.87	0.85	0.80	0.83
107.5	2.67	1.71	1.51	1.21	1.03	0.92	0.91	0.64	0.79	0.75
110.0	2.45	1.76	1.45	1.18	1.18	0.87	0.91	0.66	0.77	0.85
112.5	2.26	1.76	1.52	1.20	1.07	1.05	0.88	0.83	0.83	0.77
115.0	2.25	1.74	1.45	1.03	0.99	1.06	0.78	0.80	0.79	0.83
117.5	2.14	1.63	1.49	1.29	1.10	0.95	0.81	0.68	0.76	0.83
120.0	2.11	1.62	1.52	1.19	0.95	0.86	0.83	0.85	0.79	0.77
122.5	2.05	1.60	1.44	1.25	0.99	0.85	0.80	0.86	0.71	0.84
125.0	1.95	1.61	1.61	1.13	1.00	0.92	0.89	0.83	0.75	0.89
127.5	2.22	1.77	1.60	1.15	1.02	0.82	0.77	0.96	0.89	0.78
130.0	2.26	1.77	1.54	1.19	1.02	0.94	0.95	0.80	0.91	0.81
132.5	2.28	2.10	1.60	1.40	1.21	1.11	1.03	0.85	0.89	0.92
135.0	2.54	2.05	1.95	1.66	1.38	1.26	1.11	1.03	0.93	1.10
137.5	2.87	2.40	1.99	1.77	1.57	1.41	1.31	1.15	1.08	1.18
140.0	2.94	2.51	2.13	2.04	1.93	1.71	1.50	1.29	1.24	0.88
142.5	3.23	2.94	2.54	2.35	2.06	1.87	1.66	1.77	1.47	1.45
145.0	3.31	3.05	2.58	2.53	2.43	2.23	1.99	1.93	1.77	1.80
147.5	3.72	3.40	3.08	2.87	2.64	2.56	2.36	2.32	2.15	2.19
150.0	3.82	3.67	3.44	3.20	3.00	2.88	2.73	2.82	2.56	2.75
152.5	3.86	3.83	3.76	3.44	3.30	3.26	3.24	3.06	2.81	2.89
155.0	4.18	4.12	4.07	3.93	3.68	3.61	3.59	3.57	3.38	3.36
157.5	4.49	4.47	4.30	4.15	4.07	4.05	4.01	3.92	3.70	3.68
160.0	4.82	4.69	4.55	4.46	4.51	4.45	4.41	4.23	4.24	4.13
162.5	4.89	4.82	4.89	4.95	4.81	4.77	4.74	4.57	4.49	4.36
165.0	5.32	5.28	5.13	5.22	5.13	5.17	5.01	4.89	4.83	4.83
167.5	5.44	5.48	5.48	5.52	5.40	5.11	5.40	5.32	5.05	5.06
170.0	5.80	5.70	5.49	5.52	5.64	5.60	5.39	5.71	5.43	5.41
172.5	5.93	5.93	6.06	6.04	5.97	5.78	5.79	5.91	5.83	5.73
175.0	6.26	6.24	6.19	5.97	6.01	5.95	6.02	6.13	5.95	6.08
177.5	6.57	6.39	6.18	6.19	6.03	6.16	6.23	6.23	6.32	6.15
180.0	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86
2.5	6522.14	6640.14	6652.77	6712.40	6688.45	6696.38	6803.41	6802.26	6734.12	6721.60
5.0	5307.42	5522.33	5740.90	6041.16	6245.18	6460.81	6591.48	6687.99	6619.99	6424.14
7.5	3774.91	4083.85	4485.75	5062.66	5578.34	6087.87	6408.75	6523.23	6441.91	6061.49
10.0	2396.46	2776.98	3291.52	3998.03	4695.33	5691.38	6352.40	6505.37	6254.89	5625.02
12.5	1495.10	1754.51	2285.13	3064.65	4061.08	5054.73	6183.47	6541.63	6065.44	4783.58
15.0	948.29	1136.42	1512.04	2189.96	3432.18	4716.49	6110.24	6635.69	6000.27	4534.20
17.5	599.19	731.71	986.46	1570.63	2675.15	4303.60	5916.51	6537.70	5689.66	3961.28
20.0	384.94	463.66	671.52	1078.90	2006.39	3772.82	5702.29	6485.70	5410.85	3458.32
22.5	260.51	313.14	447.16	751.84	1451.12	3086.93	4865.76	5919.03	4608.53	2758.24
25.0	192.14	229.29	321.85	526.54	1033.28	2350.01	4084.93	4698.99	3804.22	2077.91
27.5	150.82	180.61	238.94	358.91	713.28	1654.36	3101.43	3787.59	2841.60	1422.25

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CANDELA TABULATION - (Cont.)

30.0	125.70	147.77	188.99	259.31	491.61	1148.74	2348.66	2873.84	2108.95	966.34
32.5	107.30	122.84	147.12	191.06	343.47	771.68	1558.85	1994.08	1412.71	653.15
35.0	87.85	101.09	114.55	146.38	232.32	488.96	1090.87	1457.62	1008.16	434.19
37.5	72.30	83.76	92.09	115.04	169.25	362.94	758.31	1006.02	691.57	302.66
40.0	60.27	67.93	74.96	90.90	132.51	260.75	514.53	696.75	462.54	218.46
42.5	52.26	58.51	64.71	78.47	108.50	183.73	358.25	475.86	327.71	157.63
45.0	47.63	52.70	55.97	68.57	87.00	135.46	259.68	355.96	235.60	119.50
47.5	44.27	46.73	49.62	59.96	71.09	105.65	188.32	261.75	172.26	94.33
50.0	42.14	42.28	44.54	51.95	58.90	81.97	139.37	195.92	129.99	74.27
52.5	38.72	38.11	41.28	45.04	49.61	65.93	105.44	146.49	97.86	61.31
55.0	36.32	34.03	38.48	38.22	43.18	53.30	80.48	113.76	76.49	50.94
57.5	33.03	30.88	35.40	32.46	36.43	44.27	64.44	91.28	62.33	42.48
60.0	27.66	27.67	28.85	26.68	30.35	37.15	51.05	71.92	49.77	36.11
62.5	22.18	24.55	23.56	22.40	25.51	30.05	40.46	58.71	39.77	30.23
65.0	18.37	20.34	19.20	19.53	21.80	25.16	33.99	49.70	32.96	24.76
67.5	15.76	16.67	16.33	16.17	19.16	21.06	28.12	41.60	27.38	20.75
70.0	13.42	13.41	14.00	14.30	16.12	18.22	23.80	35.69	23.36	17.97
72.5	11.22	11.20	11.59	12.44	14.31	15.76	20.05	31.02	20.08	15.97
75.0	9.25	9.16	10.06	10.69	12.46	13.10	16.94	26.67	16.91	13.38
77.5	7.44	7.62	8.42	9.18	10.13	10.90	14.46	23.32	14.35	11.22
80.0	5.96	6.37	7.05	7.64	8.35	8.86	12.13	20.23	12.17	9.05
82.5	4.67	5.21	5.89	6.26	6.70	7.23	10.01	17.25	10.15	7.25
85.0	3.54	4.27	4.73	4.88	5.19	5.85	8.12	14.48	8.27	5.86
87.5	2.55	3.28	3.67	3.83	4.24	4.74	6.71	12.09	6.93	4.71
90.0	2.06	2.59	2.81	3.17	3.48	3.96	5.83	10.54	5.97	3.86
92.5	1.61	2.10	2.39	2.65	2.89	3.26	5.20	9.33	5.15	3.36
95.0	1.31	1.72	1.93	2.27	2.68	2.95	4.35	8.18	4.43	2.84
97.5	0.95	1.32	1.58	2.05	2.29	2.64	4.08	7.48	4.02	2.65
100.0	0.94	1.29	1.39	1.75	1.97	2.40	3.46	6.61	3.65	2.25
102.5	1.03	1.24	1.41	1.61	1.92	2.06	3.29	5.99	3.34	2.19
105.0	0.90	1.04	1.46	1.52	1.75	2.11	3.27	5.40	3.15	2.18
107.5	0.94	1.10	1.19	1.48	1.76	2.08	3.22	5.74	3.24	2.16
110.0	0.84	1.00	1.22	1.10	1.65	2.07	3.11	5.68	3.10	1.89
112.5	0.81	0.99	1.15	1.39	1.60	1.83	2.95	5.38	3.02	1.93
115.0	0.86	0.94	1.23	1.30	1.46	1.95	2.71	4.68	2.67	1.83
117.5	0.83	0.95	1.08	1.34	1.43	1.78	2.57	4.29	2.54	1.87
120.0	0.75	0.97	0.93	1.37	1.60	1.80	2.41	3.99	2.59	1.81
122.5	0.87	0.89	1.07	1.12	1.62	1.65	2.39	3.66	2.56	1.63
125.0	0.96	0.79	1.18	1.24	1.63	1.71	2.32	3.36	2.30	1.79
127.5	0.86	0.86	1.09	1.15	1.48	1.68	2.41	3.05	2.35	1.75
130.0	0.90	0.96	1.05	1.29	1.62	1.73	2.14	2.98	2.31	1.71
132.5	0.92	1.04	1.14	1.39	1.86	1.94	2.52	3.10	2.49	1.94
135.0	1.08	1.13	1.25	1.58	1.79	2.18	2.79	3.45	2.76	2.12
137.5	1.15	1.36	1.50	1.62	1.90	2.46	2.93	3.63	3.03	2.38
140.0	1.32	1.47	1.68	1.91	2.25	2.50	3.07	3.73	3.12	2.70
142.5	1.51	1.66	1.88	2.19	2.40	2.78	3.26	3.74	3.35	2.77
145.0	1.77	1.89	2.10	2.30	2.76	2.98	3.47	3.84	3.55	3.16
147.5	2.18	2.26	2.40	2.69	2.84	3.28	3.72	3.91	3.85	3.40
150.0	2.61	2.65	2.65	2.85	3.14	3.46	3.92	4.17	3.88	3.71
152.5	2.86	2.95	2.95	3.28	3.57	3.84	4.05	4.35	4.12	3.85
155.0	3.34	3.27	3.51	3.65	3.82	3.90	4.09	4.27	4.12	3.89
157.5	3.59	3.75	3.78	3.84	4.19	4.28	4.39	4.29	4.12	4.14
160.0	4.04	3.95	4.05	4.35	4.50	4.31	4.59	4.49	4.35	4.18
162.5	4.27	4.41	4.69	4.58	4.80	4.70	4.87	4.88	4.54	4.53
165.0	4.69	5.04	5.04	5.06	5.11	5.18	5.19	5.38	5.15	5.08
167.5	5.05	5.16	5.06	5.27	5.42	5.42	5.63	5.53	5.48	5.41

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CANDELA TABULATION - (Cont.)

170.0	5.41	5.42	5.63	5.53	5.76	5.71	5.92	5.89	5.76	5.52
172.5	5.77	5.87	5.98	5.98	5.95	6.14	6.24	6.35	6.20	6.11
175.0	6.09	6.05	6.18	6.12	6.30	6.19	6.40	6.47	6.54	6.42
177.5	6.29	6.24	6.28	6.55	6.51	6.62	6.68	6.75	6.72	6.65
180.0	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48

Vert. Horizontal Angles
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86	6805.86
2.5	6699.96	6684.46	6607.49	6570.81	6574.42	6576.69	6481.50
5.0	6229.01	5989.16	5700.99	5556.90	5348.27	5208.13	4783.85
7.5	5589.46	4957.48	4454.93	4120.48	3868.59	3693.51	3346.04
10.0	4667.07	3902.34	3299.44	2844.30	2485.60	2270.38	1958.68
12.5	3954.04	2949.85	2193.16	1755.37	1490.01	1321.49	1107.70
15.0	3132.69	2047.94	1404.07	1038.23	875.63	793.99	661.30
17.5	2438.94	1425.97	896.01	666.61	552.13	485.41	422.20
20.0	1806.19	943.09	580.43	423.69	357.49	323.06	281.15
22.5	1315.17	634.60	397.59	286.25	241.70	230.89	206.49
25.0	899.88	440.35	273.34	208.86	177.35	173.14	157.77
27.5	597.94	308.75	208.79	166.04	134.36	136.32	128.17
30.0	408.27	227.54	169.31	131.59	110.32	111.06	105.17
32.5	293.96	174.97	132.25	107.54	93.11	93.20	87.77
35.0	212.76	132.73	103.89	89.33	81.54	79.05	74.43
37.5	152.40	104.21	81.31	75.58	68.79	67.84	64.38
40.0	120.38	81.51	64.54	62.34	59.33	60.45	57.80
42.5	97.39	67.61	54.09	54.17	51.20	60.92	53.88
45.0	80.04	59.62	47.03	47.68	43.78	57.68	56.70
47.5	67.38	53.20	42.41	40.77	39.77	45.49	55.67
50.0	55.71	47.57	39.09	36.43	35.64	36.96	46.75
52.5	46.88	43.05	36.84	32.29	33.04	33.06	37.88
55.0	40.84	36.15	35.56	29.44	31.68	29.80	31.06
57.5	34.86	31.08	34.78	27.30	29.73	26.85	26.55
60.0	29.48	25.53	29.82	24.50	26.10	23.51	22.57
62.5	25.03	21.99	23.81	22.12	21.92	21.06	19.19
65.0	21.24	19.11	19.48	18.99	18.53	18.58	16.71
67.5	18.63	16.08	16.46	15.89	16.31	17.12	14.14
70.0	15.96	14.18	13.54	13.56	13.99	14.59	11.88
72.5	13.94	12.55	11.65	11.26	11.81	11.24	9.33
75.0	11.97	10.78	10.01	9.40	9.88	8.52	7.17
77.5	10.17	9.13	8.69	7.83	7.97	6.38	5.28
80.0	8.12	7.62	7.11	6.51	6.05	4.97	3.77
82.5	6.54	6.28	5.92	5.20	4.73	3.53	2.57
85.0	5.32	4.90	4.65	4.31	3.59	2.31	1.63
87.5	4.32	3.82	3.73	3.32	2.61	1.62	1.10
90.0	3.36	3.21	2.97	2.67	2.02	1.06	0.82
92.5	2.85	2.77	2.35	2.03	1.47	0.98	0.82
95.0	2.55	2.27	2.04	1.54	1.22	0.91	0.74
97.5	2.23	2.08	1.64	1.30	1.22	0.86	0.74
100.0	2.00	1.74	1.52	1.24	0.99	0.83	0.83
102.5	1.91	1.76	1.35	1.07	0.82	0.79	0.84
105.0	1.93	1.49	1.32	1.07	0.90	0.78	0.74
107.5	1.57	1.23	1.14	1.15	0.97	0.82	0.73
110.0	1.69	1.29	1.09	0.97	0.87	0.72	0.84
112.5	1.67	1.38	1.10	0.87	0.91	0.65	0.78
115.0	1.39	1.14	1.10	1.06	0.89	0.74	0.92

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CANDELA TABULATION - (Cont.)

117.5	1.53	1.37	1.07	1.03	0.81	0.82	0.75
120.0	1.48	1.31	1.00	1.00	0.82	0.84	0.72
122.5	1.61	1.25	1.05	0.88	0.82	0.83	0.89
125.0	1.61	1.25	1.01	0.88	0.88	0.73	0.84
127.5	1.58	1.39	1.03	0.86	0.81	0.92	0.85
130.0	1.63	1.14	1.10	0.92	0.83	0.82	0.87
132.5	1.71	1.51	1.24	0.98	1.06	0.92	0.93
135.0	1.91	1.65	1.50	1.20	0.97	0.99	1.01
137.5	1.88	1.93	1.49	1.33	1.23	1.04	1.26
140.0	2.28	1.98	1.70	1.36	1.37	1.45	1.26
142.5	2.39	2.34	1.86	1.92	1.68	1.47	1.63
145.0	2.71	2.52	2.20	1.94	2.10	1.96	1.99
147.5	3.09	2.76	2.48	2.33	2.14	2.23	2.34
150.0	3.27	2.90	2.71	2.63	2.68	2.64	2.65
152.5	3.52	3.16	3.06	3.11	3.00	2.97	3.11
155.0	3.71	3.48	3.58	3.46	3.38	3.31	3.57
157.5	3.84	4.03	3.66	3.68	3.68	3.76	3.78
160.0	4.04	3.89	4.02	3.98	4.06	4.17	4.12
162.5	4.28	4.20	4.25	4.37	4.28	4.45	4.59
165.0	5.05	4.78	4.72	4.70	4.76	4.72	4.83
167.5	5.21	5.18	5.01	4.98	4.87	5.09	4.94
170.0	5.58	5.46	5.34	5.36	5.45	5.48	5.43
172.5	5.84	5.72	5.77	5.80	5.82	5.79	5.74
175.0	5.98	6.12	6.13	6.09	6.00	6.04	6.12
177.5	6.42	6.25	6.27	6.13	6.32	6.44	6.27
180.0	6.48	6.48	6.48	6.48	6.48	6.48	6.48

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1198.72	N.A.	59.60
0-30	1669.47	N.A.	83.10
0-40	1849.9	N.A.	92.10
0-60	1958.55	N.A.	97.50
0-80	1990.95	N.A.	99.10
0-90	1996.00	N.A.	99.30
10-90	1515.11	N.A.	75.40
20-40	651.18	N.A.	32.40
20-50	722.00	N.A.	35.90
40-70	129.79	N.A.	6.50
60-80	32.40	N.A.	1.60
70-80	11.27	N.A.	0.60
80-90	5.05	N.A.	0.30
90-110	4.38	N.A.	0.20
90-120	5.85	N.A.	0.30
90-130	7.08	N.A.	0.40
90-150	9.98	N.A.	0.50
90-180	13.64	N.A.	0.70
110-180	9.26	N.A.	0.50
0-180	2009.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	480.89
10-20	717.83
20-30	470.75
30-40	180.43
40-50	70.82
50-60	37.84
60-70	21.13
70-80	11.27
80-90	5.05
90-100	2.56
100-110	1.83
110-120	1.46
120-130	1.24
130-140	1.30
140-150	1.60
150-160	1.70
160-170	1.38
170-180	0.57

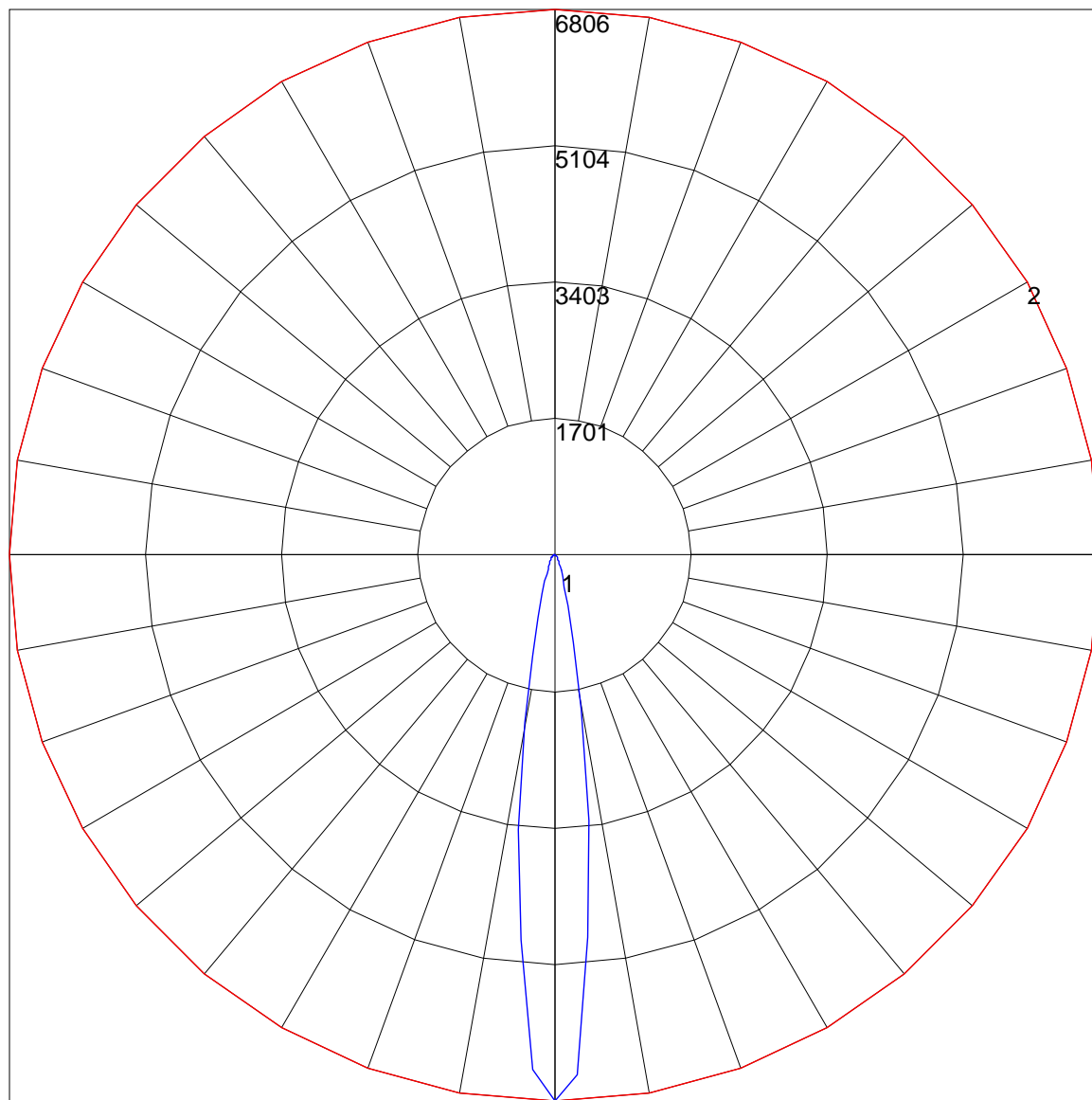
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	99	97	99	97	94	96	94	92	94	92	90	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	84	80	95	88	83	80	86	82	79	84	81	78	83	80	77	76
6	92	85	80	76	91	84	79	76	82	78	75	81	77	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	67	63	70	66	63	70	66	63	69	65	63	62

POLAR GRAPH



Maximum Candela = 6805.86 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)