



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDX4SAWT40120V-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.2.1 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Thu Feb 08 11:54:25 2018

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LED4XSAWT40120V-277V

[LAMP] LED 0.428W White 3030 package (150mA)

[LAMPCAT] SPMWHT328FD5WAV0S0

[OTHER]

IESNA:LM-63-2002

[TEST] 6,552

[TESTLAB] CSA Group

[ISSUEDATE] 7/24/2013 1:09:24 PM

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2634
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.21 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.32 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3516	2671	2545
55	2971	2214	2122
65	2184	1702	1657
75	1327	1157	1196
85	695	658	668

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75
2.5	923.20	932.62	930.15	925.51	923.18	939.54	923.63	927.57	935.15	949.51
5.0	932.42	921.89	924.39	917.54	926.38	916.54	931.36	938.85	923.05	939.20
7.5	916.92	926.45	922.73	921.03	927.35	921.12	919.20	925.45	916.70	921.96
10.0	912.28	914.42	909.76	907.59	913.11	899.75	912.05	907.96	912.01	914.19
12.5	898.05	898.04	907.69	904.04	903.77	897.13	900.76	903.49	911.46	908.78
15.0	885.62	888.65	885.64	887.66	881.20	888.03	889.74	899.35	900.25	894.51
17.5	875.74	880.41	872.45	872.86	878.49	874.33	881.47	888.17	893.65	891.60
20.0	852.85	854.56	854.03	845.43	848.42	858.78	862.33	872.97	880.63	881.63
22.5	836.00	829.57	834.25	835.50	835.68	838.73	850.59	859.45	864.68	861.63
25.0	816.35	812.32	811.41	816.96	819.22	817.97	824.21	833.63	828.89	841.07
27.5	799.75	789.70	792.41	796.76	792.88	802.24	809.56	811.60	816.17	816.51
30.0	772.82	765.52	766.26	769.04	768.71	773.48	785.29	790.45	794.75	795.11
32.5	749.93	740.25	744.77	748.40	745.48	748.60	754.47	763.34	767.05	777.15
35.0	716.75	708.85	716.84	718.45	721.38	723.59	725.95	731.47	745.61	749.41
37.5	686.46	687.80	687.47	684.14	692.02	694.65	697.15	705.11	715.91	715.16
40.0	658.27	651.52	656.01	655.02	660.46	666.96	668.92	673.59	678.86	686.62
42.5	622.67	622.20	622.82	624.77	627.33	637.37	642.91	643.74	648.80	647.90
45.0	585.41	588.88	591.04	593.60	597.81	603.82	605.01	608.11	616.70	616.87
47.5	549.68	550.40	550.91	559.32	561.74	568.08	574.24	577.66	581.63	584.72
50.0	503.64	509.66	511.27	519.70	527.27	536.77	539.60	545.21	546.31	545.72
52.5	458.38	463.09	473.23	485.29	491.33	500.39	503.16	510.29	515.24	514.16
55.0	413.22	419.10	430.44	443.14	453.29	462.67	471.59	476.10	479.23	481.73
57.5	367.65	373.56	388.48	408.34	415.24	428.17	433.78	444.03	446.52	446.64
60.0	324.05	330.21	341.64	361.71	376.94	391.81	399.01	404.05	408.25	412.27
62.5	276.93	285.17	301.17	321.83	341.14	355.03	365.10	369.42	372.00	377.95
65.0	234.70	240.97	258.07	281.12	303.81	317.15	327.60	334.10	337.00	339.16
67.5	191.98	200.68	220.76	244.13	267.86	282.21	291.09	301.88	304.61	307.41
70.0	156.49	162.78	183.92	208.45	230.59	249.59	260.42	267.48	272.75	275.52
72.5	123.22	129.06	150.39	173.72	197.66	217.26	227.73	235.80	240.17	241.55
75.0	96.27	102.09	119.82	145.99	168.88	183.80	196.44	204.94	208.70	210.74
77.5	71.35	78.04	95.20	119.21	139.79	156.37	166.05	174.08	178.49	177.76
80.0	52.04	56.65	73.89	93.86	114.70	130.62	137.91	145.11	146.60	148.93
82.5	36.31	41.41	55.89	74.91	90.72	104.42	113.20	117.52	118.61	118.65
85.0	24.67	29.72	41.95	58.43	72.93	82.10	89.32	91.20	93.28	95.16
87.5	16.81	19.96	32.14	45.67	56.48	63.66	68.32	70.78	71.65	72.20
90.0	9.41	13.41	23.61	34.75	43.31	48.38	52.06	54.14	53.00	53.99
92.5	6.20	9.04	17.60	25.87	32.22	36.58	38.76	40.07	40.17	39.50
95.0	5.00	5.84	12.30	19.05	24.16	27.06	28.78	30.50	30.53	30.21
97.5	3.92	4.45	8.81	13.72	17.78	21.22	22.91	23.57	23.30	24.07
100.0	3.18	3.72	6.49	10.34	13.72	16.37	17.91	18.57	19.76	18.60
102.5	2.92	3.17	4.73	7.83	10.45	12.30	14.47	15.41	15.61	15.62
105.0	2.44	2.66	3.57	5.86	7.95	10.23	11.77	12.71	13.12	13.59
107.5	2.49	2.30	2.85	4.46	5.93	8.14	9.96	10.58	11.52	11.63
110.0	1.97	2.19	2.23	3.32	4.99	6.15	8.12	9.15	9.82	9.72
112.5	1.80	2.07	1.81	2.64	3.74	5.08	6.35	7.54	8.40	8.77
115.0	1.61	1.61	1.75	1.83	2.59	3.82	5.24	6.30	7.34	7.33
117.5	1.36	1.37	1.30	1.42	1.99	2.93	4.07	4.80	5.50	5.79
120.0	1.39	1.28	1.12	1.03	1.53	2.09	2.97	4.01	4.58	4.79
122.5	0.87	0.95	0.78	0.77	1.02	1.60	2.42	3.04	3.77	3.63
125.0	0.89	0.58	0.70	0.60	0.68	1.22	1.78	2.37	2.47	2.87
127.5	0.53	0.60	0.52	0.35	0.41	0.70	1.15	1.67	2.03	2.38
130.0	0.36	0.38	0.40	0.38	0.27	0.49	0.60	1.17	1.51	1.74
132.5	0.28	0.28	0.21	0.25	0.13	0.28	0.58	0.93	1.22	1.01

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135.0	0.23	0.16	0.15	0.09	0.09	0.10	0.28	0.43	0.61	0.70
137.5	0.13	0.11	0.08	0.07	0.03	0.04	0.16	0.28	0.35	0.51
140.0	0.08	0.10	0.05	0.05	0.01	0.02	0.07	0.18	0.31	0.25
142.5	0.03	0.07	0.01	0.00	0.01	0.01	0.02	0.11	0.13	0.08
145.0	0.02	0.00	0.00	0.00	0.03	0.02	0.08	0.11	0.08	0.05
147.5	0.03	0.06	0.02	0.05	0.05	0.06	0.02	0.02	0.11	0.06
150.0	0.02	0.11	0.07	0.09	0.07	0.06	0.04	0.02	0.08	0.02
152.5	0.06	0.11	0.10	0.08	0.09	0.16	0.06	0.03	0.03	0.01
155.0	0.10	0.10	0.14	0.16	0.12	0.13	0.06	0.03	0.07	0.07
157.5	0.13	0.12	0.21	0.09	0.20	0.13	0.12	0.07	0.12	0.14
160.0	0.27	0.22	0.28	0.21	0.18	0.26	0.14	0.15	0.11	0.09
162.5	0.22	0.31	0.34	0.24	0.15	0.29	0.34	0.14	0.23	0.11
165.0	0.26	0.30	0.14	0.32	0.20	0.21	0.12	0.14	0.24	0.21
167.5	0.18	0.29	0.19	0.15	0.07	0.19	0.34	0.21	0.06	0.20
170.0	0.20	0.19	0.47	0.30	0.22	0.22	0.15	0.10	0.24	0.18
172.5	0.26	0.47	0.24	0.33	0.08	0.28	0.19	0.50	0.15	0.26
175.0	0.23	0.25	0.32	0.31	0.45	0.42	0.34	0.23	0.21	0.26
177.5	0.48	0.13	0.37	0.27	0.22	0.37	0.23	0.00	0.10	0.21
180.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

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	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75
2.5	944.56	932.29	933.56	943.45	947.35	940.76	948.37	939.12	929.50	931.47
5.0	932.07	925.31	916.30	945.28	923.05	922.61	941.58	927.81	924.33	927.99
7.5	913.28	918.96	926.48	919.46	930.25	930.55	934.78	927.16	926.34	919.20
10.0	912.48	914.00	914.94	912.17	897.54	905.63	914.80	911.30	923.65	913.98
12.5	906.05	904.76	894.76	905.86	902.60	890.88	900.80	908.49	910.01	907.64
15.0	906.11	896.74	899.66	886.10	890.11	884.03	892.42	883.85	893.32	892.40
17.5	897.69	887.88	884.33	882.99	876.88	870.91	875.79	876.85	877.99	878.48
20.0	884.00	870.53	860.35	859.49	859.04	855.59	861.54	857.92	860.33	853.74
22.5	859.65	856.67	846.57	841.43	840.07	838.82	832.38	841.43	840.16	836.57
25.0	844.08	836.54	828.65	817.38	825.79	822.34	809.75	813.23	815.17	814.49
27.5	815.56	813.48	804.38	796.19	799.49	792.61	786.42	788.47	796.20	792.58
30.0	799.87	790.44	780.19	775.98	777.56	771.77	772.30	772.46	771.12	770.34
32.5	778.58	762.46	757.00	752.88	746.14	745.38	739.53	745.97	747.42	747.90
35.0	744.51	740.48	729.47	727.70	718.19	718.21	716.51	720.12	724.94	715.63
37.5	719.04	709.97	699.78	695.82	692.60	685.56	687.92	692.16	688.57	685.17
40.0	684.50	677.83	678.49	664.94	661.95	660.24	652.58	661.25	662.05	658.94
42.5	647.51	647.16	641.53	641.84	632.10	627.33	623.76	621.96	624.71	626.59
45.0	614.42	611.04	611.41	606.11	603.08	591.57	581.99	582.10	585.72	586.29
47.5	584.85	580.77	579.03	574.93	563.93	559.01	553.45	551.30	547.28	548.95
50.0	549.07	545.17	539.52	536.59	532.56	523.70	515.53	508.96	504.88	505.90
52.5	513.10	509.78	509.39	499.45	490.01	481.63	472.45	466.70	464.27	465.11
55.0	478.19	477.85	469.96	466.54	454.75	443.76	432.12	418.28	416.58	418.72
57.5	445.32	444.16	439.98	430.82	415.43	401.50	386.63	373.97	370.12	373.25
60.0	408.76	407.34	401.91	389.53	381.83	360.28	343.02	326.94	323.37	326.21
62.5	373.82	372.83	366.59	358.30	341.67	322.64	298.14	281.15	275.33	282.08
65.0	338.33	336.80	331.49	320.70	306.63	281.09	260.78	239.75	234.33	240.43
67.5	307.36	303.10	295.53	284.45	269.98	243.25	217.36	200.40	194.85	199.42
70.0	273.47	268.60	262.62	252.18	231.47	206.32	182.22	162.27	156.53	163.90
72.5	241.18	233.76	227.58	216.73	199.71	175.14	150.35	130.79	124.41	130.04
75.0	208.60	203.13	198.02	184.98	168.63	144.59	120.88	102.22	95.41	103.76
77.5	178.74	175.38	167.36	155.82	139.51	117.20	95.10	77.72	72.18	78.92
80.0	147.42	145.07	138.69	128.70	115.98	95.22	74.65	57.16	51.63	58.64

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CANDELA TABULATION - (Cont.)

82.5	119.30	117.06	113.02	103.85	91.94	75.32	57.06	42.16	36.71	42.84
85.0	93.30	93.25	89.34	83.53	72.80	58.89	41.91	29.50	24.94	29.57
87.5	72.14	69.62	68.59	64.15	55.89	45.20	32.05	20.34	16.89	20.90
90.0	53.36	53.67	51.54	47.92	42.49	33.71	23.80	14.36	9.69	13.96
92.5	40.65	39.90	39.64	36.47	32.47	26.10	16.90	9.41	6.14	9.33
95.0	31.17	30.56	29.58	28.39	24.18	18.51	12.37	6.45	5.01	6.16
97.5	24.01	23.49	22.42	21.29	18.00	14.53	8.63	4.50	4.04	4.56
100.0	19.55	18.72	18.01	16.15	12.98	10.49	5.64	3.69	3.68	3.81
102.5	15.57	15.52	14.09	12.37	10.66	7.94	4.50	3.35	3.07	3.09
105.0	13.40	12.68	11.87	9.77	8.59	5.41	3.60	2.74	2.68	2.92
107.5	11.60	10.50	9.41	8.20	6.31	4.27	2.82	2.48	2.34	2.53
110.0	9.95	8.92	8.07	6.54	4.84	3.37	2.51	2.18	2.23	2.17
112.5	8.39	7.75	6.60	5.09	3.35	2.49	1.99	2.01	1.81	1.85
115.0	7.00	6.30	5.29	4.05	2.52	1.96	1.62	1.55	1.61	1.64
117.5	5.57	5.29	4.10	3.08	1.96	1.45	1.36	1.41	1.26	1.50
120.0	4.65	3.96	2.98	2.19	1.51	0.94	1.18	1.12	1.04	1.16
122.5	3.71	3.16	2.10	1.61	1.02	0.78	0.82	1.06	1.09	0.94
125.0	2.84	2.24	1.88	1.02	0.67	0.45	0.71	0.75	0.75	0.74
127.5	1.88	1.72	1.22	0.59	0.48	0.43	0.47	0.64	0.58	0.58
130.0	1.38	1.05	0.77	0.47	0.19	0.28	0.43	0.54	0.52	0.49
132.5	0.93	0.84	0.54	0.25	0.10	0.15	0.27	0.31	0.34	0.28
135.0	0.72	0.53	0.22	0.12	0.07	0.16	0.14	0.22	0.24	0.23
137.5	0.44	0.30	0.12	0.05	0.01	0.09	0.14	0.14	0.20	0.21
140.0	0.19	0.17	0.06	0.03	0.02	0.05	0.02	0.11	0.11	0.11
142.5	0.08	0.08	0.03	0.02	0.01	0.01	0.03	0.02	0.09	0.03
145.0	0.04	0.03	0.03	0.01	0.01	0.01	0.03	0.03	0.00	0.00
147.5	0.03	0.04	0.01	0.01	0.05	0.02	0.02	0.05	0.03	0.05
150.0	0.07	0.00	0.00	0.07	0.06	0.08	0.03	0.04	0.02	0.04
152.5	0.03	0.04	0.07	0.09	0.09	0.10	0.13	0.11	0.06	0.07
155.0	0.06	0.10	0.07	0.14	0.07	0.22	0.12	0.09	0.05	0.13
157.5	0.11	0.12	0.21	0.19	0.21	0.18	0.16	0.14	0.10	0.17
160.0	0.09	0.07	0.15	0.24	0.27	0.21	0.19	0.19	0.12	0.14
162.5	0.19	0.14	0.21	0.20	0.15	0.35	0.22	0.22	0.14	0.20
165.0	0.20	0.16	0.22	0.22	0.25	0.22	0.14	0.16	0.16	0.25
167.5	0.08	0.33	0.28	0.13	0.16	0.20	0.26	0.19	0.12	0.26
170.0	0.10	0.24	0.26	0.27	0.18	0.17	0.26	0.17	0.20	0.45
172.5	0.27	0.28	0.19	0.32	0.27	0.12	0.20	0.25	0.24	0.25
175.0	0.27	0.25	0.17	0.29	0.42	0.25	0.37	0.26	0.35	0.25
177.5	0.24	0.37	0.46	0.31	0.00	0.36	0.14	0.00	0.00	0.30
180.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

**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	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75	931.75
2.5	943.63	943.45	930.74	944.64	919.28	940.69	922.01	951.02	936.49	944.24
5.0	924.18	931.42	947.08	914.11	944.78	929.63	920.45	917.22	925.38	935.12
7.5	926.04	940.17	909.21	927.61	939.37	921.41	925.19	915.27	919.19	916.39
10.0	909.31	912.10	907.65	902.53	910.16	921.87	909.52	916.63	915.21	909.06
12.5	898.20	901.23	904.49	900.36	897.13	906.48	902.79	902.69	902.44	905.92
15.0	892.79	890.72	883.28	883.94	892.26	895.34	895.03	891.63	897.46	898.28
17.5	876.47	872.44	875.43	881.69	882.33	888.48	892.41	896.74	899.76	887.19
20.0	848.85	856.38	859.30	856.02	861.51	871.10	880.86	877.57	879.29	869.11
22.5	830.31	835.46	834.81	842.03	848.08	853.69	860.34	857.27	856.61	853.88
25.0	809.51	808.20	819.06	823.12	830.21	839.56	837.78	834.52	843.80	832.86
27.5	787.94	794.01	798.26	797.44	809.38	815.29	818.66	818.98	815.05	813.70

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CANDELA TABULATION - (Cont.)

30.0	765.56	764.73	775.40	778.88	774.88	786.21	798.60	792.41	788.75	785.90
32.5	739.37	744.30	746.97	752.35	753.09	761.75	770.51	769.73	771.67	759.18
35.0	716.56	717.93	718.38	722.05	729.67	737.55	741.93	744.38	738.34	732.88
37.5	685.45	684.51	691.18	696.23	700.71	704.23	711.98	719.14	711.71	706.26
40.0	654.04	658.52	663.00	668.62	670.58	678.30	680.64	685.30	676.34	675.89
42.5	625.56	627.00	632.30	634.24	640.18	641.63	649.19	652.52	647.92	646.32
45.0	584.96	588.03	600.55	606.35	607.07	611.98	614.39	623.07	614.73	612.47
47.5	553.26	555.72	566.03	571.74	575.01	576.13	582.54	584.13	577.77	577.86
50.0	511.18	517.11	530.33	534.89	539.32	545.08	545.02	546.90	546.36	543.54
52.5	472.26	481.19	497.09	500.01	506.69	512.71	517.40	516.50	513.38	513.84
55.0	427.85	443.67	456.08	465.26	473.85	476.54	481.45	483.53	482.16	476.86
57.5	385.04	402.99	415.05	427.82	436.99	443.73	444.87	446.76	446.37	441.56
60.0	343.47	364.48	379.92	392.07	399.99	410.42	411.50	411.81	410.12	409.76
62.5	297.36	322.69	341.51	354.95	363.66	371.23	374.55	375.33	374.16	368.88
65.0	256.96	282.00	306.56	319.76	329.50	334.91	341.30	341.93	341.16	338.49
67.5	218.48	243.72	267.51	284.98	293.89	301.99	305.75	306.53	306.70	299.57
70.0	181.20	208.45	232.28	248.76	260.10	266.72	272.62	274.14	272.44	266.45
72.5	149.74	175.84	199.74	214.69	228.96	235.26	238.73	241.24	239.96	237.27
75.0	121.35	142.61	169.80	183.28	198.20	204.10	209.05	210.19	209.12	206.33
77.5	97.41	119.16	141.34	156.26	166.25	174.51	178.37	176.67	179.04	175.84
80.0	73.97	94.55	114.19	129.14	138.19	144.94	147.93	147.04	148.09	143.44
82.5	56.42	73.61	91.63	104.43	113.31	116.85	119.37	119.35	119.45	117.71
85.0	42.22	58.02	71.86	82.16	89.14	91.93	93.58	94.48	93.26	92.44
87.5	30.99	45.86	55.67	63.73	68.79	70.35	71.79	71.70	71.89	70.69
90.0	23.47	34.71	42.08	48.94	52.18	52.94	54.22	53.54	53.71	52.95
92.5	17.34	25.69	31.95	36.83	39.61	39.96	40.14	40.14	40.32	40.35
95.0	11.88	18.99	23.81	27.18	29.13	30.16	30.67	31.07	30.61	30.38
97.5	8.68	14.03	17.64	20.51	22.97	23.54	23.39	23.57	23.49	23.70
100.0	6.32	10.64	13.50	16.01	18.09	18.70	19.10	19.38	18.66	18.47
102.5	4.60	7.40	10.31	12.72	14.61	15.38	15.29	15.83	15.69	15.23
105.0	3.40	5.64	7.94	9.97	11.95	12.66	13.10	13.63	13.40	12.54
107.5	3.04	4.56	6.16	7.78	9.49	10.82	11.38	11.44	11.04	10.86
110.0	2.22	3.29	4.87	6.12	8.24	9.27	9.59	10.36	10.04	8.70
112.5	2.06	2.70	3.46	5.09	6.55	7.50	8.12	8.77	8.60	7.52
115.0	1.76	1.92	2.95	3.63	5.08	6.11	6.68	7.39	6.61	6.60
117.5	1.37	1.49	1.92	2.90	3.97	5.21	5.47	5.80	5.78	5.09
120.0	1.02	1.05	1.45	2.08	2.97	4.23	4.68	5.04	4.47	3.81
122.5	0.95	0.78	0.96	1.86	2.49	3.02	3.62	3.84	3.37	3.00
125.0	0.73	0.44	0.63	0.90	1.57	2.43	2.82	3.05	2.55	2.25
127.5	0.53	0.45	0.44	0.71	1.21	1.70	2.08	2.11	2.08	1.72
130.0	0.36	0.31	0.21	0.38	0.93	1.18	1.35	1.70	1.46	1.08
132.5	0.21	0.29	0.13	0.28	0.47	0.74	1.05	1.12	0.95	0.86
135.0	0.16	0.08	0.05	0.06	0.26	0.47	0.74	0.77	0.76	0.48
137.5	0.05	0.09	0.04	0.06	0.19	0.37	0.38	0.50	0.38	0.25
140.0	0.03	0.03	0.02	0.03	0.07	0.09	0.22	0.25	0.32	0.12
142.5	0.02	0.01	0.01	0.00	0.07	0.08	0.09	0.12	0.12	0.06
145.0	0.03	0.03	0.02	0.03	0.02	0.05	0.11	0.03	0.05	0.02
147.5	0.02	0.06	0.05	0.02	0.03	0.04	0.04	0.07	0.04	0.05
150.0	0.04	0.09	0.14	0.05	0.07	0.00	0.07	0.07	0.01	0.01
152.5	0.11	0.04	0.10	0.13	0.04	0.06	0.04	0.02	0.01	0.07
155.0	0.15	0.12	0.15	0.08	0.10	0.08	0.04	0.11	0.04	0.06
157.5	0.15	0.12	0.16	0.09	0.20	0.09	0.09	0.09	0.09	0.17
160.0	0.13	0.18	0.26	0.18	0.21	0.16	0.12	0.06	0.09	0.15
162.5	0.22	0.22	0.18	0.21	0.32	0.16	0.14	0.09	0.17	0.16
165.0	0.14	0.29	0.37	0.28	0.25	0.20	0.16	0.25	0.18	0.12
167.5	0.19	0.28	0.21	0.14	0.24	0.44	0.31	0.15	0.26	0.21

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CANDELA TABULATION - (Cont.)

170.0	0.31	0.31	0.32	0.28	0.18	0.34	0.09	0.21	0.15	0.41
172.5	0.19	0.28	0.37	0.43	0.35	0.21	0.20	0.12	0.41	0.26
175.0	0.11	0.12	0.29	0.15	0.19	0.43	0.11	0.12	0.14	0.50
177.5	0.46	0.25	0.13	0.37	0.32	0.35	0.26	0.15	0.13	0.36
180.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Vert. Horizontal Angles

Angles	300	310	320	330	340	350	360
0.0	931.75	931.75	931.75	931.75	931.75	931.75	931.75
2.5	951.84	939.22	946.98	925.20	929.34	925.97	923.20
5.0	927.69	929.27	933.91	909.60	923.52	936.81	932.42
7.5	926.28	927.72	926.53	924.23	925.74	928.96	916.92
10.0	919.19	912.34	908.12	901.68	910.17	920.33	912.28
12.5	903.39	908.29	894.27	897.31	896.80	897.91	898.05
15.0	891.43	880.06	883.60	890.78	890.01	884.99	885.62
17.5	876.59	869.29	868.32	872.64	871.19	872.63	875.74
20.0	867.45	856.32	850.41	855.67	857.10	853.69	852.85
22.5	852.11	837.67	834.42	837.83	837.45	837.87	836.00
25.0	832.85	826.68	811.16	815.12	815.46	822.49	816.35
27.5	806.97	798.53	794.09	794.25	788.47	794.12	799.75
30.0	779.16	773.21	774.23	770.82	769.76	769.30	772.82
32.5	753.10	746.57	749.69	745.13	743.28	748.92	749.93
35.0	728.42	720.29	720.99	715.27	717.75	718.59	716.75
37.5	700.83	695.49	694.87	690.02	689.19	687.28	686.46
40.0	666.72	664.88	663.06	659.90	657.64	657.03	658.27
42.5	639.20	637.27	630.28	623.76	627.50	624.23	622.67
45.0	608.60	604.70	598.86	592.03	588.09	590.40	585.41
47.5	579.31	567.85	566.91	556.75	552.90	549.48	549.68
50.0	537.43	537.74	525.87	522.70	513.86	508.12	503.64
52.5	507.61	498.09	494.80	485.00	473.84	466.41	458.38
55.0	472.84	465.05	454.54	442.46	429.39	417.81	413.22
57.5	435.66	426.01	417.01	400.30	385.66	371.03	367.65
60.0	403.86	390.59	376.06	362.89	343.97	327.13	324.05
62.5	363.50	356.09	342.46	321.38	298.75	283.81	276.93
65.0	330.61	320.29	303.58	280.40	261.66	239.33	234.70
67.5	297.33	287.45	266.86	242.56	220.14	197.72	191.98
70.0	260.83	249.61	232.47	208.68	180.39	162.93	156.49
72.5	229.88	216.07	196.86	175.19	149.79	130.90	123.22
75.0	196.43	185.81	165.74	144.41	120.39	102.06	96.27
77.5	168.65	156.92	140.22	119.05	94.96	76.26	71.35
80.0	140.24	128.08	114.82	94.43	73.26	57.54	52.04
82.5	112.75	104.31	91.50	75.03	55.64	41.27	36.31
85.0	88.80	83.07	71.69	58.27	42.36	30.16	24.67
87.5	69.29	64.43	56.15	44.79	31.46	21.08	16.81
90.0	52.31	47.89	42.40	34.52	23.73	13.24	9.41
92.5	38.51	36.64	31.75	25.57	17.24	9.30	6.20
95.0	29.22	26.64	24.10	18.59	11.92	5.95	5.00
97.5	23.67	21.23	17.31	14.34	8.50	4.60	3.92
100.0	17.59	16.00	13.45	10.42	6.27	3.59	3.18
102.5	14.40	12.91	10.74	7.44	4.58	2.96	2.92
105.0	11.57	10.45	8.13	5.76	3.71	2.66	2.44
107.5	9.61	8.36	6.30	4.16	2.96	2.52	2.49
110.0	7.92	6.11	4.81	3.15	2.51	2.21	1.97
112.5	6.36	5.00	3.68	2.63	2.17	1.79	1.80
115.0	5.13	4.24	2.64	1.93	1.61	1.73	1.61

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CANDELA TABULATION - (Cont.)

117.5	4.06	3.00	2.06	1.44	1.48	1.29	1.36
120.0	2.91	2.41	1.38	1.06	0.98	1.26	1.39
122.5	2.23	1.60	1.08	0.82	0.74	0.85	0.87
125.0	1.74	0.92	0.64	0.52	0.61	0.60	0.89
127.5	1.12	0.72	0.43	0.39	0.54	0.55	0.53
130.0	0.80	0.56	0.27	0.27	0.42	0.38	0.36
132.5	0.52	0.23	0.13	0.20	0.34	0.32	0.28
135.0	0.27	0.10	0.06	0.14	0.16	0.21	0.23
137.5	0.11	0.04	0.03	0.05	0.14	0.15	0.13
140.0	0.03	0.02	0.03	0.03	0.06	0.16	0.08
142.5	0.01	0.02	0.02	0.00	0.04	0.05	0.03
145.0	0.02	0.00	0.03	0.01	0.02	0.03	0.02
147.5	0.04	0.01	0.08	0.05	0.02	0.02	0.03
150.0	0.06	0.07	0.08	0.05	0.03	0.10	0.02
152.5	0.08	0.11	0.16	0.12	0.10	0.04	0.06
155.0	0.10	0.18	0.17	0.11	0.16	0.13	0.10
157.5	0.17	0.14	0.18	0.19	0.14	0.18	0.13
160.0	0.19	0.12	0.19	0.09	0.22	0.24	0.27
162.5	0.23	0.18	0.18	0.09	0.17	0.20	0.22
165.0	0.25	0.25	0.23	0.24	0.26	0.29	0.26
167.5	0.22	0.25	0.18	0.24	0.23	0.34	0.18
170.0	0.19	0.17	0.35	0.22	0.19	0.28	0.20
172.5	0.26	0.19	0.16	0.24	0.35	0.30	0.26
175.0	0.31	0.30	0.29	0.06	0.31	0.11	0.23
177.5	0.13	0.40	0.00	0.37	0.33	0.32	0.48
180.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	339.84	N.A.	12.90
0-30	719.35	N.A.	27.30
0-40	1173.21	N.A.	44.50
0-60	2042.37	N.A.	77.50
0-80	2515.73	N.A.	95.50
0-90	2593.4	N.A.	98.50
10-90	2505.2	N.A.	95.10
20-40	833.37	N.A.	31.60
20-50	1296.6	N.A.	49.20
40-70	1166.64	N.A.	44.30
60-80	473.37	N.A.	18.00
70-80	175.89	N.A.	6.70
80-90	77.67	N.A.	2.90
90-110	34.98	N.A.	1.30
90-120	38.91	N.A.	1.50
90-130	40.21	N.A.	1.50
90-150	40.50	N.A.	1.50
90-180	40.63	N.A.	1.50
110-180	5.66	N.A.	0.20
0-180	2634.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.20
10-20	251.64
20-30	379.51
30-40	453.86
40-50	463.23
50-60	405.93
60-70	297.48
70-80	175.89
80-90	77.67
90-100	25.65
100-110	9.32
110-120	3.93
120-130	1.30
130-140	0.26
140-150	0.03
150-160	0.05
160-170	0.06
170-180	0.02

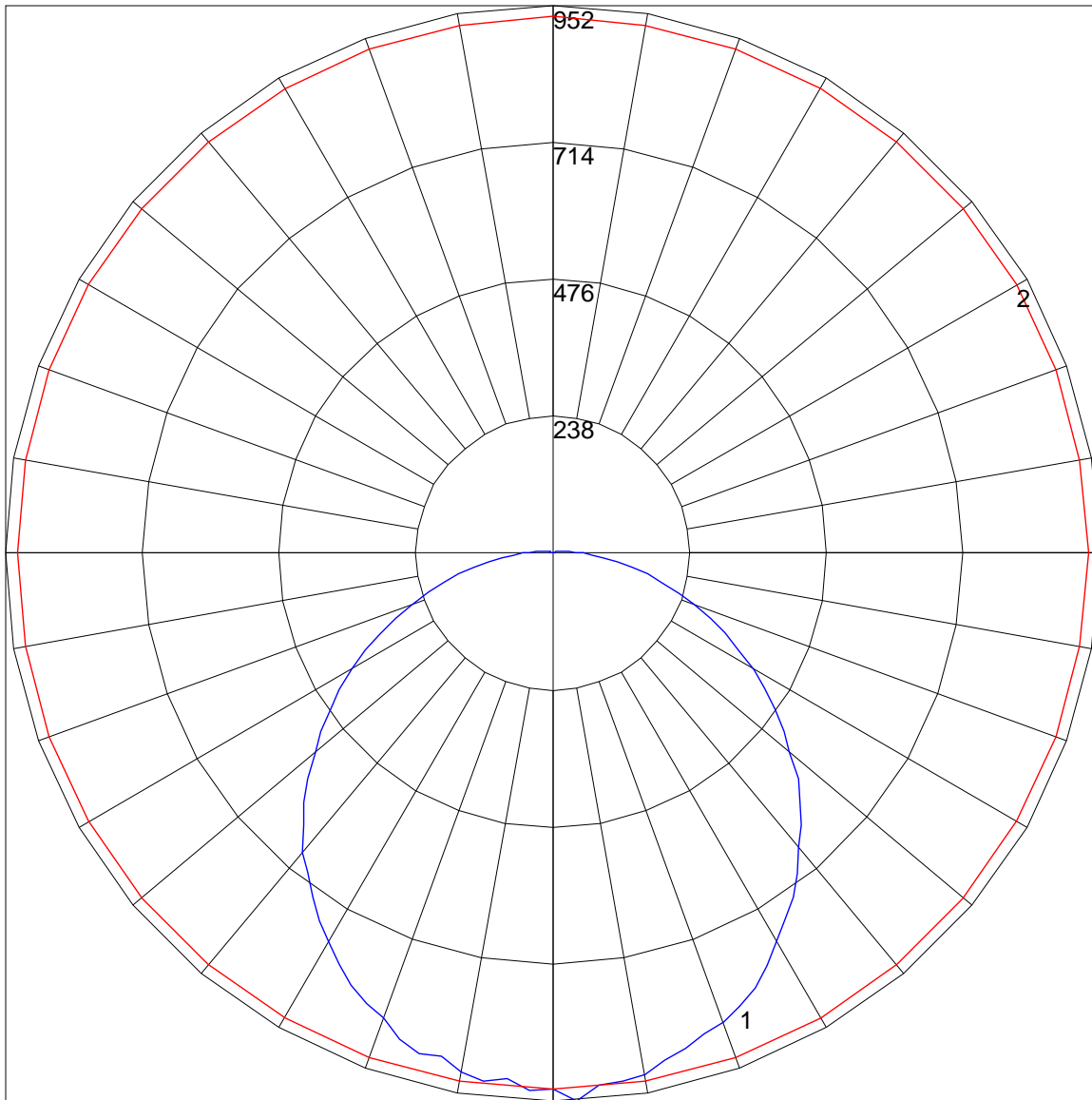
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	101	101	101	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	77	74	70	68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60	57
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	43
6	70	56	48	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 951.84 Located At Horizontal Angle = 300, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (300 - 120) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)