



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHTLOWBDWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Mon Sep 18 16:01:13 2017

[TEST] 1

[MANUFACT] BEGHELLI

[LUMCAT]

[LUMINAIRE] BL736LEDHTLOWT40WBD120-277V

[LAMP] LED 0.1885W Nichia Warm White LED (65mA)

[LAMPCAT] NFSL757DT-V1

[OTHER]

IESNA:LM-63-2002

[TEST] 6,552

[TESTLAB] CSA Group

[ISSUE DATE] 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	15478
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	150
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.39 ft
Luminous Width (90-270)	1.37 ft
Luminous Height	0.40 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13032	18545	14966
55	4190	5550	4756
65	1637	1785	1716
75	773	733	866
85	407	265	304

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60
2.5	8686.18	8791.79	8627.01	8587.43	8871.21	8786.90	8779.59	8771.57	8630.92	8630.16
5.0	8842.95	8813.67	8774.79	8714.13	8762.12	8859.47	8579.01	8773.87	8702.20	8816.98
7.5	9001.76	8950.40	8955.88	8966.51	8974.87	8921.27	8943.44	8920.11	8891.09	8865.90
10.0	9241.18	9207.94	9247.42	9296.89	9222.96	9234.14	9237.79	9168.20	9155.15	9067.48
12.5	9370.81	9459.97	9483.09	9588.06	9565.43	9605.11	9556.75	9463.46	9306.33	9305.72
15.0	9542.46	9593.32	9704.18	9833.49	9939.58	9972.47	9867.62	9737.28	9650.89	9517.07
17.5	9641.29	9706.25	9885.74	10030.63	10204.04	10222.37	10230.13	9992.03	9837.03	9705.02
20.0	9605.12	9634.54	9876.55	10059.78	10379.15	10461.14	10342.77	10140.91	9876.72	9707.22
22.5	9358.42	9411.49	9663.08	10034.93	10363.07	10460.75	10399.97	10088.00	9788.84	9639.18
25.0	8859.58	8975.21	9322.03	9771.33	10157.58	10424.06	10242.64	9876.81	9603.22	9301.41
27.5	8221.21	8369.77	8769.29	9275.25	9792.50	9981.37	9919.60	9523.75	9092.19	8857.71
30.0	7423.33	7545.09	7981.84	8643.59	9195.10	9488.85	9324.33	8924.79	8406.06	8186.78
32.5	6525.60	6683.00	7141.51	7845.72	8417.05	8710.20	8579.82	8092.37	7554.05	7339.88
35.0	5560.92	5733.66	6143.38	6873.84	7520.88	7819.84	7624.36	7102.59	6578.36	6335.11
37.5	4605.68	4726.44	5155.65	5825.10	6451.13	6688.59	6536.44	6018.76	5502.06	5264.77
40.0	3610.52	3783.04	4172.80	4735.75	5291.92	5531.90	5363.63	4884.01	4454.94	4208.38
42.5	2785.73	2920.38	3244.77	3746.82	4179.41	4362.98	4219.52	3780.53	3425.04	3253.65
45.0	2101.02	2205.05	2463.03	2883.38	3195.23	3351.10	3219.43	2879.91	2551.47	2422.48
47.5	1553.69	1617.26	1836.37	2131.02	2389.64	2482.89	2361.36	2119.15	1881.46	1775.26
50.0	1136.45	1185.86	1342.11	1564.82	1748.74	1800.51	1707.45	1527.87	1367.92	1308.21
52.5	832.94	853.35	964.11	1122.72	1252.63	1290.07	1224.10	1109.22	991.55	931.79
55.0	600.02	621.54	703.44	803.61	882.43	903.65	866.26	783.16	712.69	684.66
57.5	440.98	453.67	504.01	569.48	636.84	646.23	620.66	569.29	518.06	500.27
60.0	337.58	342.32	377.75	415.67	453.44	461.57	450.74	421.12	388.36	371.10
62.5	257.31	254.59	285.41	308.50	334.79	339.36	331.85	313.19	287.60	278.64
65.0	197.80	199.23	214.36	234.81	248.75	252.45	247.50	225.02	213.88	208.74
67.5	153.95	156.20	161.98	171.25	189.65	188.48	181.39	174.13	165.49	170.20
70.0	117.39	122.38	123.54	137.07	139.10	140.91	141.97	133.63	131.85	128.56
72.5	95.69	96.87	96.92	106.26	107.08	108.22	107.78	105.56	101.04	98.71
75.0	73.23	78.88	78.87	82.03	84.31	85.19	84.03	81.52	78.85	82.83
77.5	62.71	63.52	62.31	65.59	64.30	67.02	66.65	62.82	62.62	60.53
80.0	50.48	48.85	50.39	51.99	50.42	50.93	51.10	49.38	49.39	48.80
82.5	37.93	40.35	38.47	39.62	38.34	38.70	37.43	36.28	34.15	35.32
85.0	26.81	24.26	23.11	24.86	23.82	22.44	22.00	20.35	19.88	20.32
87.5	4.94	4.79	5.24	4.96	6.37	5.63	5.65	5.72	4.81	4.11
90.0	0.12	0.06	0.00	0.00	0.04	0.03	0.00	0.01	0.01	0.00
92.5	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>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	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60
2.5	8905.79	8656.12	8862.72	8693.67	8720.67	8750.70	8828.10	8564.79	8613.85	8673.16
5.0	8745.23	8725.45	8652.90	8638.34	8707.65	8541.18	8582.64	8703.62	8633.29	8631.26
7.5	8866.24	8814.79	8846.46	8838.74	8807.11	8750.28	8730.86	8740.69	8637.62	8774.74
10.0	9097.65	9034.35	9105.36	9018.71	8983.39	9025.36	8899.60	8842.87	8839.22	8879.65
12.5	9339.86	9318.45	9266.05	9256.49	9195.81	9217.67	9061.43	9029.18	8928.66	9051.58
15.0	9480.11	9527.34	9545.95	9588.47	9419.36	9345.38	9227.79	9169.18	9119.77	9174.07
17.5	9717.35	9748.89	9794.84	9778.94	9700.67	9577.32	9419.51	9208.85	9126.24	9238.97
20.0	9714.10	9794.70	9938.69	9907.92	9782.20	9632.81	9363.57	9171.70	9110.53	9231.33
22.5	9612.42	9802.78	9935.68	9976.20	9778.96	9516.17	9191.63	8961.72	8918.55	9002.78
25.0	9338.29	9589.61	9776.55	9863.99	9677.23	9355.87	8927.25	8653.11	8551.63	8692.67
27.5	8903.98	9173.84	9386.07	9516.68	9386.55	8998.57	8461.54	8087.98	7988.08	8239.93
30.0	8252.37	8555.97	8870.96	9042.93	8826.01	8404.94	7880.48	7447.47	7353.88	7539.98
32.5	7409.09	7751.36	8159.03	8374.09	8182.70	7726.07	7094.73	6652.39	6575.50	6784.29
35.0	6423.77	6831.80	7278.88	7527.14	7359.50	6853.52	6264.09	5835.99	5681.98	5913.96
37.5	5341.27	5752.78	6241.55	6533.79	6354.67	5884.85	5318.92	4904.79	4755.38	4944.26
40.0	4327.54	4674.45	5133.93	5404.20	5309.28	4878.53	4330.86	3982.28	3838.86	4016.36
42.5	3338.66	3644.71	4049.40	4326.19	4237.15	3892.56	3462.49	3123.29	2984.95	3141.71
45.0	2514.60	2780.33	3108.26	3309.17	3293.66	3014.46	2648.85	2372.45	2278.81	2394.38
47.5	1845.63	2036.73	2312.19	2484.86	2481.23	2254.76	1979.40	1742.63	1690.10	1779.00
50.0	1325.23	1493.49	1684.80	1811.51	1806.89	1669.43	1449.49	1298.77	1244.72	1318.30
52.5	963.96	1065.49	1197.56	1283.81	1294.86	1198.89	1051.90	937.10	903.02	939.24
55.0	707.27	757.34	854.63	914.12	920.34	863.83	752.75	668.79	656.07	694.06
57.5	510.13	553.77	610.85	654.07	656.66	605.31	545.55	499.81	477.26	503.15
60.0	373.75	412.08	447.62	474.82	472.30	444.86	397.39	363.64	359.03	376.01
62.5	285.08	300.54	329.78	348.25	342.15	320.08	294.51	273.73	270.21	282.57
65.0	218.03	233.51	240.62	252.23	259.40	241.11	226.70	210.92	206.50	216.16
67.5	163.77	174.13	184.72	192.90	192.44	184.24	170.69	166.10	161.84	163.50
70.0	129.15	136.83	142.89	149.69	142.44	141.11	131.29	127.81	124.11	126.23
72.5	100.70	105.94	107.72	110.75	114.70	110.41	105.11	102.75	101.13	97.95
75.0	77.81	82.42	83.60	87.08	84.79	84.62	82.70	78.48	75.39	82.61
77.5	62.66	60.45	66.89	66.62	69.24	62.16	65.20	63.61	61.74	64.77
80.0	47.91	50.47	50.48	52.16	51.52	51.73	51.16	51.01	52.40	51.74

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CANDELA TABULATION - (Cont.)

82.5	35.92	36.37	37.65	37.96	39.59	39.69	40.82	39.24	42.45	38.46
85.0	20.00	19.91	21.33	23.31	23.57	24.16	24.75	24.98	26.14	26.32
87.5	4.81	4.75	5.61	6.43	5.18	5.12	4.40	4.55	5.33	4.68
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	<u>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	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60
2.5	8741.86	8703.99	8752.14	8660.95	8762.61	8733.49	8718.23	8698.22	8727.17	8732.47
5.0	8546.34	8739.56	8683.72	8694.89	8657.15	8829.73	8740.64	8819.31	8738.91	8877.03
7.5	8844.77	8852.10	8808.07	8978.51	8910.25	9012.27	9007.72	9025.28	9046.24	8955.21
10.0	9010.05	9085.71	9132.69	9099.62	9153.76	9198.95	9304.49	9286.92	9351.03	9331.58
12.5	9227.30	9240.10	9398.70	9461.18	9447.00	9556.24	9466.64	9569.52	9612.41	9676.54
15.0	9354.48	9457.56	9698.71	9774.51	9812.03	9749.08	9855.09	9775.78	9890.32	9987.73
17.5	9479.90	9722.70	9956.43	10020.66	10074.44	10006.46	9930.68	9964.03	10164.12	10239.99
20.0	9493.25	9838.58	10060.94	10175.91	10235.96	10095.50	10067.56	10068.10	10152.95	10380.07
22.5	9375.71	9755.86	10096.74	10239.56	10215.40	10120.59	9885.72	9954.74	10118.54	10356.28
25.0	9083.86	9529.34	9972.61	10135.68	10042.68	9878.32	9603.40	9645.23	9818.28	10206.43
27.5	8632.55	9197.59	9697.60	9816.73	9690.41	9361.84	9120.02	9106.61	9320.99	9763.10

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	8025.41	8661.38	9152.31	9310.81	9126.66	8736.81	8396.94	8277.22	8616.25	9093.67
32.5	7286.17	7953.27	8426.05	8612.17	8313.88	7880.64	7447.98	7404.54	7655.67	8244.49
35.0	6353.19	7072.92	7543.64	7673.08	7351.32	6851.80	6437.07	6340.44	6576.02	7140.78
37.5	5468.11	6082.15	6530.35	6624.86	6254.25	5730.27	5321.88	5236.74	5491.39	5978.10
40.0	4483.07	5038.05	5456.28	5442.22	5123.47	4580.85	4217.22	4099.14	4327.83	4810.48
42.5	3522.92	3996.29	4350.21	4320.35	4004.93	3572.23	3233.72	3155.04	3300.02	3703.07
45.0	2705.02	3107.15	3339.81	3324.57	3020.23	2661.82	2406.39	2326.52	2476.68	2775.10
47.5	2025.32	2322.18	2502.65	2469.10	2235.37	1970.75	1771.53	1695.37	1796.73	2037.48
50.0	1477.03	1704.04	1834.51	1782.17	1633.59	1412.99	1277.96	1227.37	1299.80	1455.16
52.5	1075.30	1226.88	1305.43	1280.37	1174.87	1011.82	924.97	891.31	945.76	1051.98
55.0	772.83	861.66	930.97	905.85	820.97	732.48	673.01	652.12	678.62	754.21
57.5	549.03	614.37	651.08	642.65	593.08	536.27	494.92	477.58	501.03	538.75
60.0	403.72	446.77	468.70	464.70	433.30	396.14	369.03	352.59	365.05	411.14
62.5	306.18	326.73	345.13	345.60	321.93	293.28	275.13	263.33	285.18	293.66
65.0	230.55	248.41	257.71	257.04	240.32	225.06	212.47	206.11	213.60	227.00
67.5	175.94	188.32	188.91	192.01	182.49	170.41	160.94	156.47	166.90	175.09
70.0	134.93	142.65	147.87	146.60	139.67	132.33	127.11	122.30	128.07	131.02
72.5	102.24	106.91	109.34	111.73	106.42	105.09	95.99	96.61	103.79	99.69
75.0	81.18	84.76	86.54	86.81	82.12	80.14	76.94	76.77	77.93	81.30
77.5	64.98	68.13	68.80	65.02	66.26	60.86	60.36	62.44	61.82	64.93
80.0	53.17	51.19	51.50	51.70	51.86	48.65	46.77	47.61	47.07	50.14
82.5	38.17	38.73	38.96	36.15	35.01	35.86	34.59	33.95	36.19	36.18
85.0	26.01	23.96	24.13	23.39	20.69	21.55	19.87	18.65	20.27	20.80
87.5	5.02	4.37	5.48	5.83	5.32	5.29	3.95	4.71	4.43	5.31
90.0	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60	9012.60
2.5	8694.99	8720.99	8696.33	8808.30	8607.25	8831.37	8686.18
5.0	8938.36	8733.26	8847.00	8757.49	8765.56	8818.33	8842.95
7.5	9077.07	9133.34	9054.90	9112.31	9076.98	8923.84	9001.76
10.0	9427.00	9380.99	9400.75	9370.46	9328.26	9296.22	9241.18
12.5	9720.84	9860.35	9690.15	9724.20	9580.45	9475.47	9370.81
15.0	10082.81	10069.08	10092.87	9904.80	9839.95	9694.75	9542.46
17.5	10469.51	10476.59	10435.38	10188.41	9969.46	9833.79	9641.29
20.0	10645.42	10708.27	10595.25	10339.56	10030.01	9753.05	9605.12
22.5	10701.49	10792.62	10608.55	10304.17	9815.32	9498.19	9358.42
25.0	10550.11	10675.67	10495.58	10095.69	9528.76	9074.41	8859.58
27.5	10234.43	10361.89	10150.60	9547.46	8917.92	8395.03	8221.21
30.0	9596.46	9762.25	9469.91	8845.53	8201.00	7639.87	7423.33
32.5	8749.15	9021.26	8749.56	8051.81	7285.81	6742.62	6525.60
35.0	7721.84	7981.97	7726.06	7083.01	6329.42	5778.16	5560.92
37.5	6535.88	6809.37	6610.83	5986.31	5279.21	4781.29	4605.68
40.0	5322.82	5582.22	5405.11	4912.56	4271.92	3821.24	3610.52
42.5	4148.44	4355.16	4269.38	3872.83	3336.57	2943.23	2785.73
45.0	3132.79	3332.37	3253.89	2944.23	2519.83	2191.92	2101.02
47.5	2280.33	2473.91	2416.82	2188.60	1889.00	1639.73	1553.69
50.0	1636.29	1768.65	1756.03	1579.63	1373.14	1196.96	1136.45
52.5	1176.13	1268.97	1242.50	1145.01	998.32	875.06	832.94
55.0	837.78	884.99	884.95	815.29	718.41	633.27	600.02
57.5	606.70	634.46	627.98	583.36	510.60	469.90	440.98
60.0	437.58	459.84	458.65	421.20	379.48	351.23	337.58
62.5	314.57	335.38	330.95	313.30	285.92	264.76	257.31
65.0	242.70	254.28	246.26	232.50	216.55	198.77	197.80
67.5	185.94	193.58	189.60	177.64	167.10	156.41	153.95
70.0	138.21	142.73	139.57	137.30	127.90	119.71	117.39
72.5	107.54	109.44	109.45	107.46	101.10	98.32	95.69
75.0	83.67	84.27	84.30	81.92	81.79	78.14	73.23
77.5	65.65	65.30	67.23	64.56	63.48	62.67	62.71
80.0	48.32	50.90	49.09	51.82	49.48	50.55	50.48
82.5	38.40	39.51	37.95	35.87	38.93	36.09	37.93
85.0	22.20	22.26	22.73	26.80	24.26	25.69	26.81
87.5	5.35	6.47	5.60	4.69	5.56	4.29	4.94
90.0	0.01	0.00	0.04	0.00	0.01	0.00	0.12
92.5	0.00	0.00	0.04	0.00	0.00	0.07	0.00
95.0	0.00	0.00	0.00	0.00	0.01	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.03	0.00	0.00	0.01
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3592.33	N.A.	23.20
0-30	7969.58	N.A.	51.50
0-40	12156.26	N.A.	78.50
0-60	15121.98	N.A.	97.70
0-80	15453.71	N.A.	99.80
0-90	15478.42	N.A.	100.00
10-90	14628.48	N.A.	94.50
20-40	8563.93	N.A.	55.30
20-50	10781.93	N.A.	69.70
40-70	3207.23	N.A.	20.70
60-80	331.73	N.A.	2.10
70-80	90.21	N.A.	0.60
80-90	24.72	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	15478.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	849.94
10-20	2742.39
20-30	4377.25
30-40	4186.68
40-50	2218.00
50-60	747.73
60-70	241.51
70-80	90.21
80-90	24.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

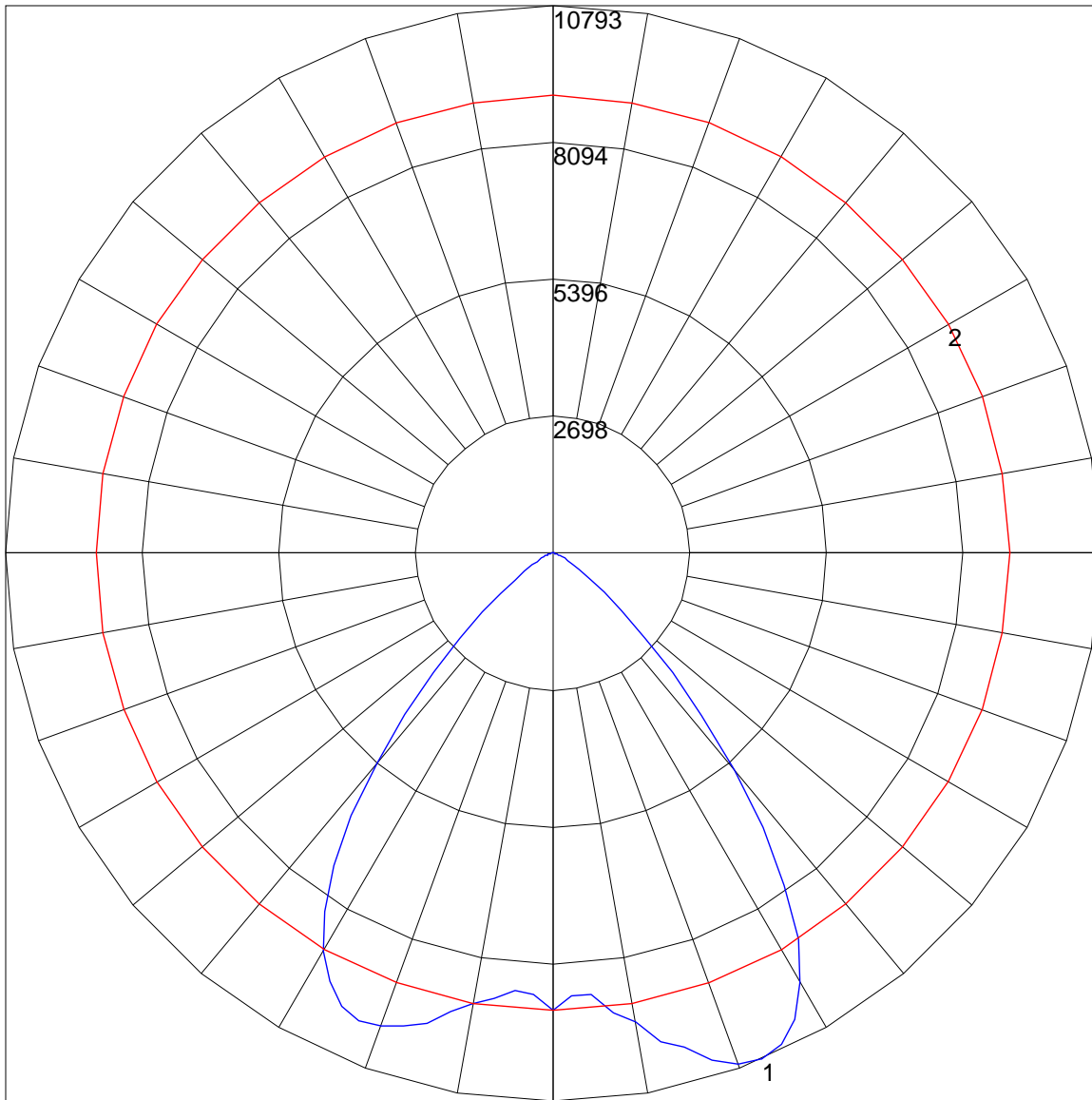
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

POLAR GRAPH



Maximum Candela = 10792.62 Located At Horizontal Angle = 310, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (310 - 130) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)