



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHTLOMBDWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2017.0.4 see: www.ltioptics.com/ies
 [ISSUEDATE]
 [TESTDATE] Thu Feb 16 12:48:52 2017
 [MANUFAC] BEGHELLI
 [LUMINAIRE] BL736LEDHTLOWT40MBD120-277V
 [LAMP] LED 0.1885W Nichia Warm White LED (65mA)
 [LAMPCAT] NFSL757DT-V1
 [OTHER] Indoor Photometric Report
 [OTHER] LUMINAIRE PROPERTIES
 [OTHER] Number of lamps: 256
 [OTHER] Lumens per lamp: 76.9
 [OTHER] Input watts: 150
 [OTHER] Distribution: Direct
 [OTHER] Symmetry: None
 [OTHER] Photometric Type: C
 [OTHER] Luminous shape: Rectangle
 [OTHER] Luminous dimensions (feet)
 [OTHER] 0 - 180 Axis: 1.4
 [OTHER] 90 - 270 Axis: 1.4
 [OTHER] Height: 0.4

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15590
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	150
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.64
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	3722	3627	3526
55	1388	1246	1337
65	731	612	741
75	478	383	451
85	276	176	191

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68
2.5	31287.72	31087.51	30967.46	31078.57	31231.43	31215.81	31114.60	31203.53	31118.53	30988.82
5.0	30272.90	30128.29	30155.98	29779.55	29855.95	30160.95	29818.23	29608.53	29512.89	29606.84
7.5	28842.88	28810.69	28832.03	28488.71	28419.41	28247.90	28137.36	27990.35	27829.79	27845.16
10.0	27160.66	27246.29	27148.20	26870.76	26456.06	26190.92	25904.37	25692.35	25702.33	25706.41
12.5	25011.39	24988.61	24665.83	24430.21	24166.84	23735.11	23453.79	23138.58	22894.80	22892.34
15.0	22344.62	22348.68	22087.24	21731.36	21391.51	20903.53	20420.78	20086.25	19867.54	19855.20
17.5	19612.36	19542.46	19167.83	18819.59	18310.38	17884.27	17417.36	17034.57	16788.90	16810.93
20.0	16502.26	16433.47	16102.42	15763.88	15313.02	14851.85	14463.81	14117.38	13956.78	13922.64
22.5	13385.95	13398.86	13121.34	12788.03	12388.51	12046.37	11712.17	11396.09	11219.20	11189.71
25.0	10495.75	10468.47	10283.26	10046.54	9727.95	9469.25	9193.79	8952.97	8787.44	8799.51
27.5	7895.40	7837.88	7788.18	7664.63	7443.09	7270.18	6989.89	6869.77	6651.43	6633.39
30.0	5695.15	5634.92	5679.67	5627.06	5519.33	5342.93	5181.24	4995.45	4853.59	4848.73
32.5	3928.86	3980.58	4016.89	4005.51	4044.10	3881.92	3771.68	3597.73	3490.61	3455.59
35.0	2690.68	2707.13	2760.51	2842.42	2846.49	2757.57	2636.75	2525.17	2440.25	2411.79
37.5	1827.97	1837.83	1893.25	1927.35	1966.00	1910.24	1845.53	1767.39	1676.04	1653.84
40.0	1222.85	1233.29	1274.90	1311.73	1354.48	1329.48	1244.47	1184.71	1149.64	1141.81
42.5	852.93	849.10	881.81	890.00	915.49	908.73	866.82	822.71	796.05	803.37
45.0	600.10	601.09	615.90	640.00	650.47	629.88	604.62	586.81	572.26	570.68
47.5	434.64	443.28	441.35	460.34	457.04	454.67	438.52	429.95	422.98	417.51
50.0	333.76	333.00	331.30	339.62	341.53	329.86	329.24	325.70	319.92	317.32
52.5	250.61	255.71	255.63	250.75	254.59	256.44	251.95	247.54	249.63	260.42
55.0	198.75	197.75	199.13	202.69	204.73	196.33	193.71	194.93	196.61	192.51
57.5	152.83	157.83	162.33	154.47	157.63	157.74	154.37	155.64	154.75	159.24
60.0	128.50	126.26	129.91	125.22	121.35	123.20	121.29	123.86	127.69	125.32
62.5	105.56	107.01	102.87	105.81	104.82	104.64	100.26	104.25	107.83	103.40
65.0	88.34	89.93	87.97	87.50	86.16	85.73	81.95	84.95	89.14	90.10
67.5	73.46	74.29	77.10	73.79	71.44	71.74	73.60	73.14	74.47	74.76
70.0	64.67	63.51	62.34	61.33	60.61	61.19	61.43	60.96	63.08	59.05
72.5	54.19	50.73	52.88	55.06	52.33	52.27	50.48	50.24	50.71	53.68
75.0	45.29	42.95	45.36	43.94	44.89	43.63	42.84	43.87	41.96	43.18
77.5	37.00	38.47	37.95	37.43	34.86	34.95	34.92	37.68	34.68	35.88
80.0	33.00	32.28	33.03	31.07	30.83	30.21	30.14	29.45	30.68	28.21
82.5	25.85	26.67	26.11	27.66	22.37	23.59	22.86	24.29	23.37	22.03
85.0	18.17	18.76	17.38	17.17	16.11	14.64	13.61	14.39	14.42	12.77
87.5	3.33	3.32	3.01	3.70	3.18	3.75	3.72	3.23	3.55	3.05
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.02	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	0.01	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	0.03	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	0.00	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>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	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68
2.5	31020.51	31013.58	31459.66	31501.28	31179.02	31114.64	31403.43	31198.64	31237.43	31193.29
5.0	29727.51	29911.66	29896.16	29869.28	30134.36	30259.76	30330.40	30586.92	30517.98	30367.38
7.5	28102.78	28153.89	28469.66	28750.07	28855.38	29158.55	29332.05	29506.31	29441.58	29438.48
10.0	25781.99	25940.84	26214.76	26636.78	26992.10	27368.89	27666.31	27843.86	27900.05	27828.63
12.5	22979.47	23242.72	23643.18	24129.78	24394.71	25003.87	25333.17	25495.96	25594.61	25498.04
15.0	20111.21	20188.11	20805.54	21311.71	21714.30	22277.72	22629.55	22957.77	22969.17	22795.97
17.5	16985.12	17266.53	17656.46	18252.37	18758.70	19166.34	19580.49	19779.12	19876.86	19829.76
20.0	13984.27	14250.05	14704.01	15149.31	15591.55	15915.86	16314.06	16569.81	16557.84	16412.87
22.5	11304.96	11553.59	11909.77	12264.53	12509.04	12848.23	13150.96	13281.01	13313.37	13220.59
25.0	8895.73	9070.25	9349.65	9601.01	9819.25	10011.65	10121.44	10182.93	10244.16	10184.90
27.5	6711.01	6928.33	7104.17	7298.14	7413.05	7511.38	7551.51	7524.20	7586.68	7520.37
30.0	4909.36	5086.65	5244.90	5372.04	5461.76	5446.57	5417.94	5404.57	5379.75	5333.51
32.5	3481.25	3631.17	3776.03	3875.35	3911.40	3867.65	3806.63	3754.51	3692.90	3749.42
35.0	2440.94	2548.38	2654.44	2737.33	2756.02	2706.06	2639.72	2566.17	2544.37	2570.62
37.5	1670.63	1760.94	1814.82	1881.46	1877.84	1856.74	1793.15	1735.72	1733.73	1743.97
40.0	1151.18	1190.67	1241.64	1285.79	1307.92	1259.19	1219.78	1171.82	1166.68	1171.17
42.5	795.79	821.28	854.23	881.42	888.45	876.93	832.89	810.84	794.98	820.60
45.0	578.54	586.87	602.60	634.91	618.19	597.81	592.12	571.52	573.21	578.89
47.5	420.41	436.93	438.05	438.53	448.99	431.68	424.01	415.85	418.75	424.44
50.0	316.73	319.05	322.58	328.59	328.40	326.98	322.62	320.66	312.85	319.42
52.5	246.38	244.59	245.91	251.41	253.08	247.48	249.31	243.67	244.03	248.53
55.0	198.67	192.52	193.23	194.62	198.07	192.35	192.67	196.03	197.60	193.13
57.5	157.15	159.27	154.75	151.37	154.06	153.59	149.62	154.97	153.54	148.46
60.0	126.19	125.46	123.44	123.92	122.92	122.87	127.25	127.92	125.18	126.87
62.5	104.43	101.96	102.16	100.21	102.30	103.56	100.70	105.12	105.84	103.43
65.0	86.15	84.57	84.38	82.99	85.24	82.68	87.66	88.51	88.27	86.35
67.5	74.65	69.64	73.30	72.94	70.51	70.49	72.49	74.09	75.64	75.38
70.0	62.18	59.34	63.11	63.60	59.83	60.34	64.17	61.59	61.13	63.40
72.5	52.24	52.61	52.84	52.27	50.96	49.74	52.19	53.36	53.77	53.00
75.0	45.17	43.58	42.81	42.67	43.07	42.91	46.30	45.36	42.60	43.89
77.5	36.07	34.89	35.81	35.90	36.23	37.93	37.16	38.77	38.39	39.13
80.0	30.74	30.63	28.82	30.12	31.70	31.35	31.13	33.50	31.88	34.80

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CANDELA TABULATION - (Cont.)

82.5	23.50	23.48	22.05	25.20	24.25	24.37	24.21	25.53	26.21	28.19
85.0	15.31	14.98	14.53	15.07	16.16	15.61	16.72	18.73	17.88	16.84
87.5	3.70	3.63	3.65	4.34	3.23	3.37	2.92	2.93	3.54	3.06
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	0.00	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	0.00	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	0.01	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	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68
2.5	31065.06	31106.51	30879.35	31379.69	31396.57	31221.09	31322.10	31049.41	31009.81	30787.25
5.0	30308.88	30318.71	30022.99	29849.42	29592.53	29632.38	29509.98	29546.38	29570.77	29446.27
7.5	29235.79	28886.05	28887.85	28466.58	28298.88	27993.81	27789.99	27831.78	27722.51	27765.26
10.0	27553.46	27305.50	26809.36	26440.78	26080.60	25797.14	25605.43	25430.85	25416.78	25548.41
12.5	25174.84	24819.25	24400.27	23947.84	23412.23	23100.10	22751.78	22593.66	22677.25	22789.17
15.0	22519.96	22123.78	21643.82	21168.03	20572.59	20104.53	19753.29	19696.63	19675.69	19903.25
17.5	19525.70	19042.64	18613.93	18074.91	17550.53	17203.97	16836.21	16698.09	16725.29	16956.65
20.0	16184.74	15801.66	15386.76	14988.27	14597.96	14147.37	13898.72	13767.77	13836.92	13999.74
22.5	13059.12	12690.70	12455.39	12172.70	11847.57	11515.79	11247.89	11094.68	11167.04	11357.02
25.0	10065.20	9877.90	9686.96	9537.23	9330.74	9073.45	8814.20	8705.01	8816.54	8911.52
27.5	7425.75	7401.86	7359.34	7260.64	7103.85	6936.23	6691.14	6620.57	6623.42	6790.70

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	5403.44	5411.73	5390.23	5357.56	5282.05	5111.64	4947.94	4866.16	4869.94	5037.89
32.5	3809.40	3857.47	3890.80	3881.20	3781.96	3647.56	3510.33	3450.02	3485.12	3629.10
35.0	2595.89	2669.09	2756.71	2731.69	2655.73	2543.66	2444.97	2413.58	2444.85	2517.21
37.5	1792.71	1849.83	1910.10	1882.21	1824.79	1766.84	1701.07	1664.80	1697.09	1742.24
40.0	1220.73	1247.42	1287.52	1290.00	1251.99	1205.66	1164.24	1144.17	1161.79	1198.13
42.5	845.41	870.87	896.22	886.91	861.18	834.56	812.11	797.85	809.80	833.46
45.0	598.49	605.76	628.92	620.91	606.90	596.33	576.38	580.61	567.25	588.40
47.5	427.31	442.22	444.63	444.80	443.95	428.72	428.95	425.99	430.36	434.05
50.0	328.01	327.07	326.65	333.38	325.22	327.46	325.32	324.53	323.14	318.96
52.5	244.17	247.83	251.72	249.45	247.95	248.85	250.69	248.99	252.74	250.70
55.0	196.43	190.16	193.85	194.87	197.14	192.41	202.11	192.44	195.21	195.64
57.5	152.10	152.50	152.91	156.88	155.75	153.62	154.40	159.00	158.93	152.01
60.0	124.11	125.46	124.22	125.34	125.31	124.74	127.66	126.84	128.16	122.71
62.5	101.91	103.89	102.91	101.28	104.13	102.87	108.82	106.88	104.66	104.41
65.0	85.31	84.54	90.39	84.75	87.99	83.77	86.41	89.31	86.62	84.17
67.5	72.36	72.08	72.56	72.27	72.92	73.07	73.16	74.51	69.82	73.14
70.0	63.00	58.42	61.06	62.28	58.40	60.44	62.90	64.63	59.09	58.58
72.5	52.56	52.30	52.62	50.78	52.47	52.70	52.40	51.42	53.79	51.57
75.0	43.59	44.39	43.07	41.87	41.34	43.04	44.28	42.21	42.72	44.40
77.5	36.14	37.46	35.06	36.08	34.98	36.84	37.83	37.47	34.92	35.22
80.0	30.75	30.64	29.06	28.10	30.65	29.98	30.29	27.83	28.76	31.28
82.5	25.61	25.65	24.02	24.97	22.99	23.07	24.50	21.75	23.70	24.49
85.0	17.87	17.10	14.57	14.26	14.29	13.79	13.94	14.66	13.93	14.69
87.5	2.89	2.76	3.45	3.59	3.45	3.47	3.57	3.43	2.94	4.37
90.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.03	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	0.00	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

IES INDOOR REPORT
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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

	300	310	320	330	340	350	360
0.0	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68	32672.68
2.5	30924.97	31076.41	31209.85	31061.78	30907.09	31101.73	31287.72
5.0	29575.99	29748.53	29774.83	29772.65	29933.24	29955.56	30272.90
7.5	27936.04	28194.35	28307.95	28484.15	28647.31	28805.58	28842.88
10.0	25854.61	25970.68	26468.04	26621.90	26873.41	27203.21	27160.66
12.5	23352.57	23523.42	23969.85	24248.82	24643.67	24941.02	25011.39
15.0	20279.09	20727.56	21135.05	21538.13	22030.12	22275.07	22344.69
17.5	17309.37	17738.98	18161.37	18675.32	19116.25	19417.54	19612.45
20.0	14332.83	14666.38	15146.86	15702.86	16063.41	16432.70	16502.31
22.5	11642.83	11927.79	12319.35	12647.35	13107.24	13347.00	13385.95
25.0	9132.98	9434.53	9699.19	9997.34	10241.54	10439.50	10495.75
27.5	6988.16	7147.22	7372.68	7533.49	7706.04	7817.23	7895.40
30.0	5169.34	5332.59	5507.69	5592.36	5662.82	5657.65	5695.17
32.5	3744.83	3898.06	3994.38	4006.88	3977.07	3946.93	3928.94
35.0	2660.23	2779.20	2835.70	2803.08	2757.61	2701.43	2690.71
37.5	1835.73	1924.22	1969.62	1946.76	1894.86	1815.69	1827.97
40.0	1257.22	1307.59	1353.83	1323.55	1274.44	1242.80	1222.89
42.5	872.00	915.40	932.68	898.85	878.70	849.38	852.93
45.0	616.84	615.68	647.67	634.06	616.53	597.46	600.10
47.5	433.79	455.17	469.85	455.83	438.33	443.71	434.70
50.0	331.73	340.27	336.99	332.29	332.78	335.72	333.76
52.5	251.74	252.29	256.33	253.43	259.84	250.31	250.61
55.0	197.15	195.19	195.06	198.96	199.71	197.26	198.75
57.5	153.14	157.99	155.75	157.80	156.21	156.17	152.90
60.0	125.96	125.52	124.45	123.31	126.69	129.58	128.50
62.5	103.65	103.12	102.65	101.62	104.41	108.30	105.58
65.0	86.84	85.67	85.47	86.10	89.98	88.53	88.38
67.5	72.50	72.79	74.36	73.77	72.45	73.69	73.48
70.0	60.46	61.06	60.98	62.56	62.87	63.99	64.67
72.5	51.63	49.62	52.33	52.03	53.21	53.42	54.19
75.0	41.94	43.54	42.60	42.98	44.61	46.02	45.29
77.5	34.94	36.82	35.75	37.71	38.22	39.57	37.00
80.0	29.50	30.25	30.25	32.02	31.46	33.02	33.02
82.5	23.77	23.16	23.11	24.41	26.53	27.18	25.89
85.0	15.66	15.36	16.58	16.87	16.80	17.01	18.17
87.5	3.54	4.01	3.49	3.36	3.82	3.92	3.33
90.0	0.00	0.03	0.00	0.00	0.01	0.00	0.00
92.5	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	0.02
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	0.00	0.00	0.00	0.00
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	8567.75	N.A.	55.00
0-30	12986.28	N.A.	83.30
0-40	14745.32	N.A.	94.60
0-60	15438.43	N.A.	99.00
0-80	15573.76	N.A.	99.90
0-90	15589.82	N.A.	100.00
10-90	12832.47	N.A.	82.30
20-40	6177.57	N.A.	39.60
20-50	6686.57	N.A.	42.90
40-70	781.32	N.A.	5.00
60-80	135.33	N.A.	0.90
70-80	47.12	N.A.	0.30
80-90	16.06	N.A.	0.10
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	15589.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2757.35
10-20	5810.4
20-30	4418.53
30-40	1759.04
40-50	509.00
50-60	184.12
60-70	88.21
70-80	47.12
80-90	16.06
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

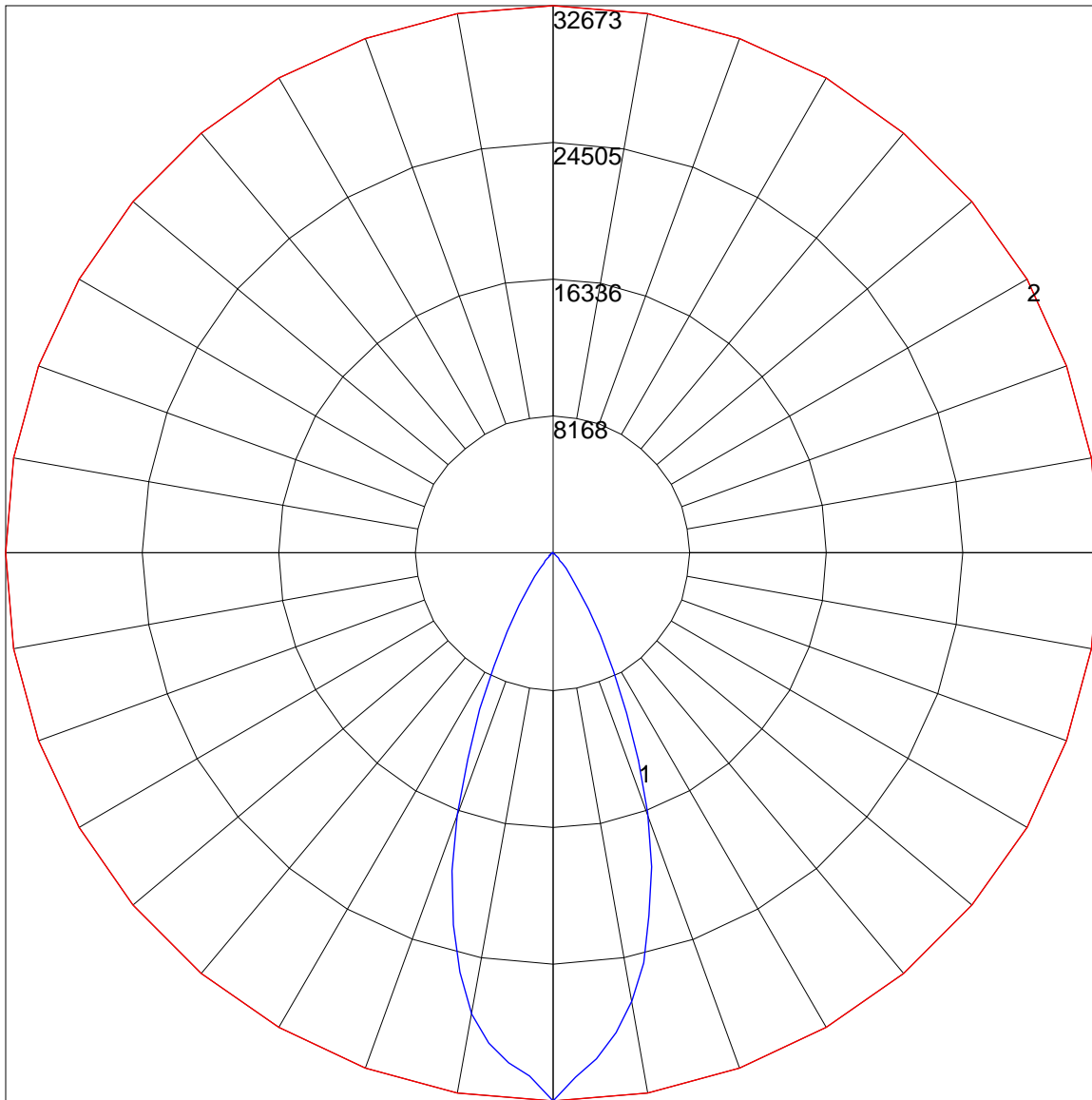
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	76	70	67	74	70	67	74	69	66	73	69	66	65
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59

POLAR GRAPH



Maximum Candela = 32672.68 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)