



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHTHOWBDWT50120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2017.0.4 see: www.ltioptics.com/ies
 [ISSUEDATE]
 [TESTDATE] Fri May 12 12:06:08 2017
 [MANUFAC] beghelli
 [LUMINAIRE] BL736LEDHTHOWBDWT50120-277V
 [LAMP] LED 0.1885W Nichia Warm White LED (65mA)
 [LAMPCAT] NFSL757DT-V1
 [OTHER] Indoor Photometric Report
 [OTHER] LUMINAIRE PROPERTIES
 [OTHER] Number of lamps: 512
 [OTHER] Lumens per lamp: 64.3
 [OTHER] Input watts: 227.8
 [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	26076
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	230
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.18
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	21172	29522	22837
55	6834	8728	7260
65	2584	2847	2726
75	1343	1167	1289
85	471	380	505

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69
2.5	16610.08	16536.08	16510.52	16410.62	16371.25	16746.05	16433.39	16549.24	16515.06	16345.50
5.0	16569.08	16581.65	16679.82	16658.03	16574.88	16701.87	16377.73	16389.58	16305.47	16413.23
7.5	16911.24	16804.14	16842.45	16776.46	16677.84	16683.23	16685.01	16531.44	16630.66	16524.70
10.0	17060.82	17163.26	17208.14	17219.45	17047.42	16964.35	16922.73	16910.54	16648.15	16745.73
12.5	17329.45	17248.02	17370.58	17476.67	17406.30	17328.21	17266.02	17018.52	17010.28	16701.38
15.0	17456.00	17652.85	17705.49	17717.65	17608.04	17666.59	17475.69	17292.38	17084.36	17007.08
17.5	17442.09	17492.12	17644.78	17796.36	17957.57	17952.69	17851.80	17487.49	17225.74	17047.47
20.0	17221.31	17329.25	17466.24	17836.18	18083.53	18071.83	17992.47	17467.69	17205.66	16908.40
22.5	16465.57	16762.29	16957.29	17430.24	17861.80	17968.60	17697.13	17319.64	16934.05	16639.68
25.0	15657.33	15703.34	16145.42	16838.71	17460.19	17647.53	17396.14	16769.13	16286.28	15940.71
27.5	14318.56	14525.99	15140.77	15981.07	16593.19	16906.72	16609.58	16046.76	15315.07	15070.43
30.0	12701.66	12995.42	13632.12	14695.69	15551.73	16009.73	15579.69	14720.91	13975.06	13672.19
32.5	11087.30	11331.87	12143.75	13194.43	14135.50	14552.73	14066.09	13286.06	12409.07	11985.44
35.0	9326.46	9595.17	10409.94	11506.51	12504.04	12845.55	12460.47	11451.92	10606.26	10188.33
37.5	7652.78	7870.07	8660.80	9723.90	10614.50	10942.24	10523.68	9585.70	8760.63	8347.77
40.0	6026.73	6295.46	6930.84	7875.95	8701.75	8886.28	8506.48	7646.12	6927.23	6615.11
42.5	4612.14	4822.50	5361.24	6184.68	6798.85	6966.16	6640.93	5890.09	5268.03	5024.60
45.0	3413.39	3604.09	4045.00	4673.30	5154.58	5266.48	4938.41	4368.36	3897.99	3696.62
47.5	2517.34	2633.08	2984.31	3459.73	3803.70	3876.64	3637.99	3201.15	2826.80	2695.64
50.0	1852.77	1917.69	2173.86	2509.16	2760.30	2786.11	2628.00	2301.13	2064.83	1980.18
52.5	1341.62	1422.50	1578.35	1803.98	1968.28	1991.50	1833.33	1664.53	1463.43	1407.67
55.0	978.72	1017.79	1155.86	1281.51	1409.99	1398.60	1317.93	1190.90	1063.53	1045.09
57.5	737.80	754.02	834.41	915.46	973.40	1001.36	940.54	863.50	789.39	755.68
60.0	540.74	565.59	618.86	671.36	726.42	722.17	682.15	630.92	577.40	559.25
62.5	416.70	431.24	457.38	505.47	526.58	538.36	517.10	473.48	439.26	433.80
65.0	312.25	322.20	344.30	375.61	394.94	404.42	383.49	359.80	335.28	331.68
67.5	249.64	251.42	270.04	287.46	299.41	301.91	291.45	274.90	263.52	253.40
70.0	196.38	202.59	209.14	218.99	222.28	230.04	219.83	219.41	195.58	204.37
72.5	152.18	154.13	159.54	165.93	174.52	174.23	173.56	171.92	162.93	160.04
75.0	127.27	119.92	126.58	129.30	136.36	133.60	138.57	124.70	125.43	123.28
77.5	97.61	97.69	99.64	101.68	101.95	106.54	103.34	99.52	99.77	98.70
80.0	76.63	72.33	79.45	80.36	75.80	80.94	82.96	76.23	78.40	74.32
82.5	57.00	55.72	56.87	55.24	58.14	53.83	60.38	57.97	57.24	56.55
85.0	30.99	32.07	31.91	30.34	34.22	32.19	32.56	30.97	33.46	33.74
87.5	7.16	7.93	7.42	7.99	7.52	7.27	7.88	7.21	6.65	8.03
90.0	0.01	0.09	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.01
92.5	0.12	0.05	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
97.5	0.06	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	0.02	0.00	0.00	0.00
102.5	0.00	0.02	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

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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	0.02	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	0.01	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	0.01	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	0.01	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	0.14	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

	100	110	120	130	140	150	160	170	180	190
0.0	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69
2.5	16452.01	16723.75	16643.02	16327.53	16543.36	16463.84	16537.14	16726.11	16491.34	16393.82
5.0	16491.59	16187.89	16290.93	16335.65	16485.51	16263.94	16368.03	16218.14	16434.34	16424.86
7.5	16411.87	16520.34	16500.81	16383.15	16348.13	16343.72	16434.66	16524.22	16428.45	16450.20
10.0	16527.14	16468.77	16777.96	16590.24	16723.62	16650.93	16621.82	16657.62	16569.84	16585.32
12.5	16653.80	16797.66	16778.77	16781.37	16755.89	16907.56	16659.13	16612.57	16605.67	16670.25
15.0	16875.32	16881.65	17084.49	17052.83	17105.65	16902.02	16962.11	16710.98	16632.85	16915.59
17.5	17019.27	17081.62	17232.46	17247.24	17209.71	17128.68	16950.97	16808.35	16701.40	16740.66
20.0	16896.19	17177.96	17230.60	17318.26	17226.96	16905.93	16784.08	16428.17	16377.42	16597.71
22.5	16545.89	16804.84	17114.80	17193.04	17085.64	16771.97	16321.66	15959.65	15835.83	15995.35
25.0	15950.49	16231.78	16628.30	16830.49	16569.36	16066.48	15549.50	15264.18	15031.11	15259.39
27.5	14981.97	15442.68	15933.90	16187.10	15908.70	15382.45	14603.69	14152.74	13891.57	14153.99
30.0	13716.81	14223.74	14889.10	15079.84	15030.58	14205.18	13471.22	12871.02	12544.16	12812.83
32.5	12155.25	12670.39	13473.20	13918.06	13697.55	12924.92	12029.08	11336.40	11039.72	11370.89
35.0	10326.10	11030.81	11847.31	12380.21	12228.03	11473.57	10464.28	9744.89	9521.73	9807.14
37.5	8578.99	9184.21	10024.82	10565.06	10500.23	9817.24	8854.20	8145.76	7896.50	8231.32
40.0	6745.70	7345.71	8187.83	8647.49	8635.51	8048.41	7217.39	6601.97	6323.59	6588.22
42.5	5151.24	5659.87	6339.96	6849.01	6895.92	6377.97	5682.31	5106.62	4902.07	5097.22
45.0	3795.14	4198.18	4759.60	5226.32	5279.27	4897.66	4327.77	3841.97	3707.53	3877.56
47.5	2755.84	3082.79	3517.93	3841.53	3920.83	3673.25	3210.22	2873.99	2750.03	2888.43
50.0	2025.29	2219.63	2548.68	2803.94	2863.15	2673.76	2361.87	2085.88	2041.69	2085.08
52.5	1456.99	1611.05	1819.49	1992.78	2022.57	1911.90	1707.49	1522.63	1477.34	1529.88
55.0	1055.80	1154.94	1298.46	1414.74	1440.99	1363.94	1214.68	1112.89	1074.74	1103.27
57.5	782.69	854.91	935.84	1005.93	1036.62	989.99	879.88	823.42	792.90	824.43
60.0	588.74	624.68	688.20	718.83	738.94	702.70	644.66	598.72	590.52	611.45
62.5	435.34	467.01	507.01	545.72	553.31	518.94	489.86	441.40	437.54	451.41
65.0	334.03	357.29	376.94	400.19	408.62	391.90	371.37	348.10	340.68	351.05
67.5	258.68	270.09	292.09	305.06	307.36	298.82	279.82	265.09	262.77	265.92
70.0	196.90	210.48	222.76	224.87	226.27	227.85	213.38	208.33	202.32	208.81
72.5	161.51	163.55	169.64	177.42	174.28	173.42	170.56	159.95	158.72	167.21
75.0	127.16	132.22	130.50	133.40	136.19	133.46	130.86	126.35	123.43	126.50
77.5	97.76	100.88	104.85	106.50	106.38	106.99	100.14	101.20	98.01	99.19
80.0	77.11	77.98	81.65	80.91	81.39	76.99	81.17	77.61	73.18	76.70

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CANDELA TABULATION - (Cont.)

82.5	54.94	59.46	59.48	56.53	55.81	55.96	56.93	56.43	55.25	54.81
85.0	33.90	34.12	32.02	30.69	32.14	34.99	33.17	32.54	30.81	33.61
87.5	8.62	7.55	6.57	7.31	8.24	7.39	7.21	6.77	8.30	7.73
90.0	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.06	0.01	0.01
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	0.04	0.00	0.05	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	0.01
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	0.01	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	0.03	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
150.0	0.00	0.01	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	0.01
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	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69
2.5	16598.01	16526.70	16500.56	16652.78	16529.66	16680.21	16734.52	16698.33	16505.22	16621.64
5.0	16404.77	16204.15	16549.98	16497.26	16333.01	16346.22	16345.06	16532.41	16458.55	16561.23
7.5	16407.22	16577.92	16355.95	16520.77	16557.20	16515.22	16407.39	16368.66	16615.24	16636.72
10.0	16638.87	16796.42	16715.36	16762.92	16671.82	16876.19	16774.29	16845.59	16790.13	17127.86
12.5	16848.46	16834.14	17003.36	16872.85	16832.11	16976.00	16846.76	16964.37	17007.31	17146.33
15.0	16942.86	17061.74	17156.71	17096.75	17159.81	17170.86	17002.50	17038.77	17281.99	17450.87
17.5	16952.88	17267.10	17295.83	17248.39	17361.95	17245.15	17211.52	17145.33	17441.97	17585.26
20.0	16799.34	17044.77	17391.30	17541.38	17468.01	17216.08	17112.35	17128.02	17457.85	17744.06
22.5	16266.12	16841.67	17217.76	17277.28	17231.87	17000.01	16769.79	16773.87	17075.97	17521.53
25.0	15636.71	16324.71	16793.06	17010.55	16721.06	16425.45	16199.42	16158.50	16471.05	17034.73
27.5	14705.69	15419.91	16099.61	16308.63	16126.02	15506.04	15142.24	15080.94	15414.52	16086.42

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CANDELA TABULATION - (Cont.)

30.0	13441.39	14318.25	15089.23	15228.90	14993.69	14295.69	13745.58	13662.37	14076.35	14882.09
32.5	12093.24	12995.61	13922.24	14021.48	13618.61	12788.07	12161.38	12024.19	12458.73	13350.69
35.0	10538.99	11584.05	12340.93	12410.93	11912.49	11076.90	10431.41	10211.71	10581.73	11575.23
37.5	8892.41	9852.84	10602.86	10581.97	10080.99	9132.70	8541.74	8304.08	8685.45	9602.78
40.0	7238.05	8128.80	8762.34	8719.66	8123.52	7308.85	6666.99	6532.99	6832.68	7611.66
42.5	5679.12	6413.36	6876.42	6879.20	6319.43	5573.10	5077.81	4943.08	5176.44	5875.55
45.0	4348.70	4927.22	5324.40	5239.56	4728.03	4155.19	3749.65	3633.04	3839.20	4321.63
47.5	3230.84	3673.88	3926.89	3863.88	3487.24	3055.29	2769.65	2650.64	2828.85	3161.36
50.0	2366.00	2701.54	2847.08	2776.49	2521.76	2211.59	1969.88	1901.59	2001.71	2277.38
52.5	1715.64	1930.12	2040.22	1978.98	1793.26	1602.00	1440.80	1389.69	1444.22	1625.26
55.0	1230.47	1353.13	1448.81	1403.38	1290.45	1147.67	1042.95	1023.09	1062.94	1148.29
57.5	893.25	976.07	1017.72	996.79	927.63	841.01	762.21	740.96	786.31	856.47
60.0	662.30	712.67	742.71	734.39	689.24	611.94	579.99	557.67	581.87	634.48
62.5	494.89	530.77	540.45	540.06	498.96	460.63	429.19	419.64	427.19	472.97
65.0	367.57	395.69	410.04	403.25	381.57	353.69	331.38	320.51	338.29	361.84
67.5	283.05	297.43	308.05	296.41	284.95	268.87	248.79	249.25	253.30	279.87
70.0	220.89	226.35	232.63	230.96	221.44	215.50	201.54	200.20	196.09	208.56
72.5	168.10	171.25	180.11	180.19	167.27	162.82	155.71	158.28	166.07	156.91
75.0	124.84	134.36	138.29	131.69	135.16	128.76	125.65	123.79	124.75	130.98
77.5	101.24	104.68	108.53	106.42	102.57	101.12	98.66	98.24	95.89	99.30
80.0	79.10	77.57	78.60	79.28	78.17	78.79	75.97	78.02	78.05	76.98
82.5	57.56	58.01	57.24	56.20	59.58	56.95	56.19	56.65	56.22	57.38
85.0	31.83	29.35	30.51	34.07	30.98	33.95	34.91	34.03	34.81	34.11
87.5	7.93	7.17	8.26	7.57	7.58	5.72	7.93	7.79	8.31	7.04
90.0	0.08	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
92.5	0.00	0.05	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	0.01	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	0.02
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

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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	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69	17096.69
2.5	16769.44	16759.09	16617.11	16737.28	16623.07	16610.99	16610.08
5.0	16268.57	16363.88	16535.43	16692.86	16582.50	16637.53	16569.84
7.5	16784.73	16681.95	16753.17	16771.86	16758.40	16946.60	16911.24
10.0	16917.36	16967.28	17059.61	17166.24	17017.35	17046.30	17060.82
12.5	17198.67	17455.22	17604.70	17416.04	17399.81	17277.29	17329.73
15.0	17578.66	17762.82	17759.35	17690.61	17587.18	17537.86	17456.08
17.5	17953.56	18009.53	18030.19	17890.57	17645.33	17590.98	17442.09
20.0	18131.53	18248.07	18087.86	17792.31	17623.55	17319.86	17221.31
22.5	17880.56	18149.92	17964.48	17496.76	17063.88	16682.54	16465.57
25.0	17648.96	17806.03	17639.61	17032.01	16245.90	15862.05	15657.33
27.5	16821.76	17113.46	16808.46	16156.23	15165.29	14513.80	14318.57
30.0	15677.65	15975.95	15677.96	14856.68	13817.20	13065.74	12701.78
32.5	14206.58	14620.64	14290.30	13331.53	12233.08	11441.22	11087.36
35.0	12473.11	13013.84	12648.65	11615.07	10439.82	9615.17	9326.46
37.5	10520.66	11013.22	10688.78	9859.20	8736.36	7850.66	7652.78
40.0	8513.56	8981.65	8726.10	7938.90	6979.68	6250.43	6026.73
42.5	6569.05	7002.57	6859.92	6237.41	5417.78	4793.23	4612.14
45.0	4919.63	5296.16	5200.69	4736.53	4108.36	3571.87	3413.39
47.5	3605.61	3884.06	3840.17	3506.64	3013.37	2673.24	2517.38
50.0	2587.69	2790.72	2757.75	2514.62	2198.31	1958.53	1852.77
52.5	1841.90	2009.20	1987.40	1819.74	1570.51	1413.95	1341.64
55.0	1313.65	1398.88	1385.05	1293.81	1147.76	1030.12	978.79
57.5	935.36	1000.40	989.83	925.10	838.02	748.96	737.80
60.0	683.03	726.03	719.60	679.73	621.20	560.35	540.74
62.5	507.16	527.20	528.76	497.21	459.54	438.24	416.70
65.0	382.54	394.00	395.43	370.83	350.26	317.44	312.31
67.5	288.02	303.40	299.22	284.18	268.56	258.20	249.64
70.0	219.20	228.75	225.18	219.66	207.04	195.46	196.43
72.5	170.06	173.04	176.71	168.21	161.55	157.68	152.21
75.0	133.22	135.56	136.93	134.44	125.76	119.65	127.27
77.5	104.71	104.58	105.18	98.60	98.79	99.35	97.61
80.0	81.38	83.19	76.21	78.92	78.53	74.60	76.68
82.5	58.47	60.75	58.61	56.87	57.77	54.20	57.00
85.0	30.73	33.23	29.88	32.29	32.46	32.74	31.01
87.5	6.70	7.56	7.25	6.95	8.36	7.54	7.16
90.0	0.00	0.02	0.00	0.00	0.00	0.00	0.01
92.5	0.00	0.00	0.00	0.00	0.00	0.06	0.12
95.0	0.00	0.00	0.00	0.05	0.05	0.05	0.00
97.5	0.00	0.00	0.00	0.01	0.02	0.00	0.06
100.0	0.00	0.00	0.00	0.04	0.00	0.01	0.00
102.5	0.00	0.00	0.00	0.00	0.01	0.01	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	0.01	0.01	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	0.01
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	0.07	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	0.14
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	0.10	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	6468.03	N.A.	24.80
0-30	13931.69	N.A.	53.40
0-40	20808.97	N.A.	79.80
0-60	25511.81	N.A.	97.80
0-80	26038.54	N.A.	99.90
0-90	26075.57	N.A.	100.00
10-90	24489.08	N.A.	93.90
20-40	14340.94	N.A.	55.00
20-50	17869.18	N.A.	68.50
40-70	5086.2	N.A.	19.50
60-80	526.73	N.A.	2.00
70-80	143.38	N.A.	0.50
80-90	37.03	N.A.	0.10
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	26075.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1586.49
10-20	4881.54
20-30	7463.66
30-40	6877.29
40-50	3528.24
50-60	1174.6
60-70	383.36
70-80	143.38
80-90	37.03
90-100	0.01
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

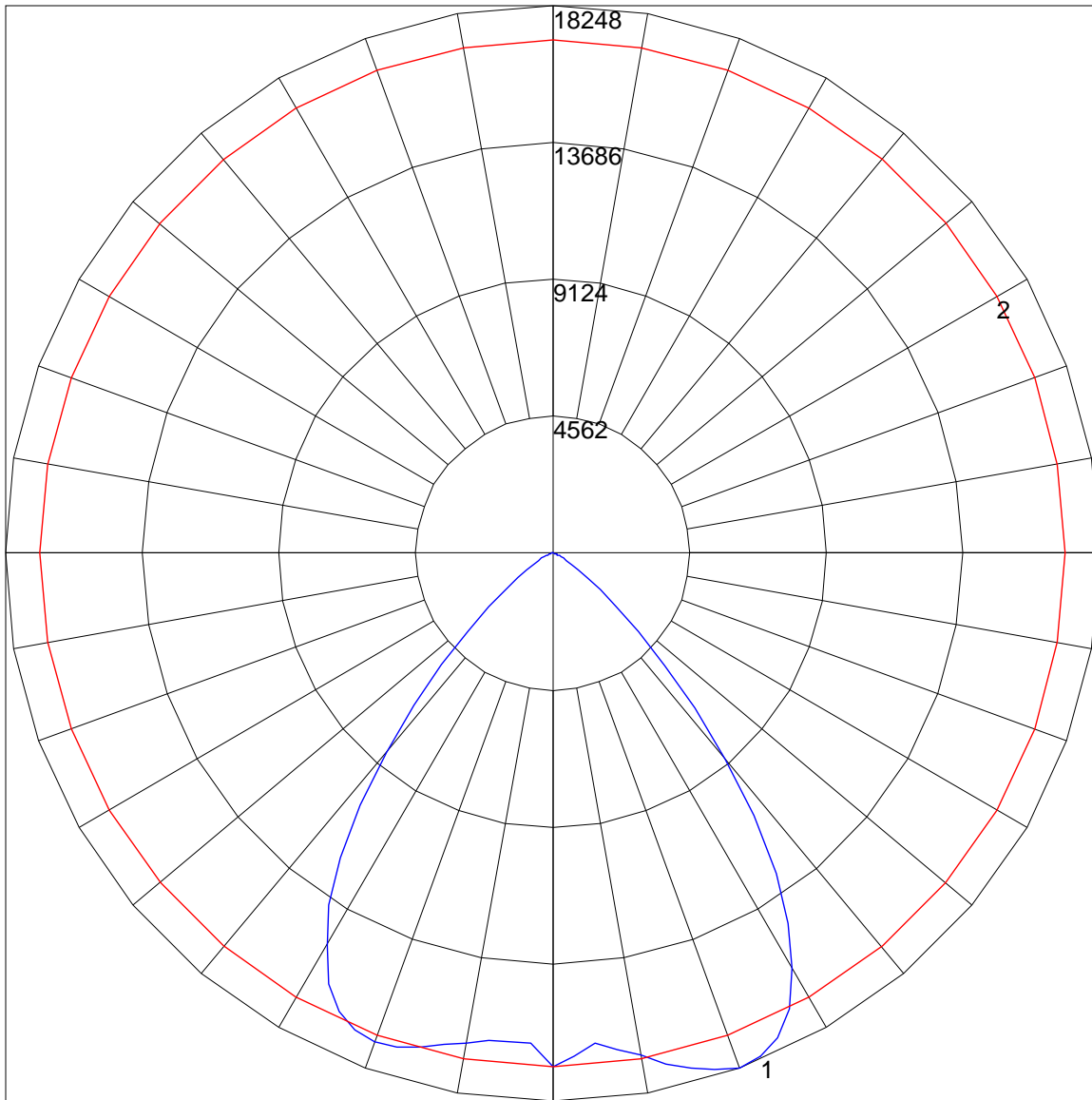
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62
6	82	72	65	60	81	71	65	60	69	64	59	68	63	59	67	62	58	57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	53	47	43	52	47	43	52	46	43	51	46	42	41

POLAR GRAPH



Maximum Candela = 18248.07 Located At Horizontal Angle = 310, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (310 - 130) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)