



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHTHOWT50NBD120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.0.4 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Wed Feb 15 16:59:38 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BL736LEDHTHOWT50NBD120-277V

[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: 62.3

[OTHER] Input watts: 230

[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	25257
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	230
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BL736LEDHTHOWT50NBD120-277V_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5907	5669	5751
55	2230	1960	2245
65	1200	948	1179
75	773	585	721
85	351	273	357

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44
2.5	51537.27	51549.63	51066.91	51710.77	51070.63	51644.29	51593.05	51257.52	50929.29	51346.91
5.0	50291.26	49838.43	49451.68	49448.39	49260.37	49307.50	48595.59	48844.80	48705.05	48410.73
7.5	48127.18	48111.72	47932.13	47255.31	46956.23	46389.80	45915.39	45476.82	45457.15	45491.62
10.0	44869.00	45142.25	44696.78	44118.83	43517.27	42702.95	42338.55	41666.69	41311.06	41275.53
12.5	41606.37	41247.06	40825.31	40206.28	39248.24	38495.48	37707.94	36969.62	36703.87	36480.07
15.0	37045.44	36786.40	36399.62	35672.20	34697.23	33545.67	32758.34	32066.24	31468.32	31359.60
17.5	32279.42	31997.27	31413.52	30532.11	29638.29	28571.34	27873.25	27135.57	26678.26	26415.19
20.0	27074.90	26809.83	26139.63	25342.93	24543.65	23779.73	22983.25	22341.12	21956.53	21813.18
22.5	21782.26	21504.70	21040.17	20472.62	19876.80	19169.49	18735.18	18139.44	17811.38	17613.04
25.0	16804.27	16701.63	16306.09	15931.46	15463.84	14981.88	14572.40	14213.73	13919.45	13871.66
27.5	12563.84	12530.58	12232.31	12011.35	11697.02	11452.51	11162.64	10839.20	10618.54	10534.59
30.0	8948.43	8918.62	8871.35	8806.48	8645.69	8501.99	8303.92	8039.37	7805.52	7733.96
32.5	6254.65	6236.25	6270.27	6298.32	6347.91	6132.01	5958.22	5770.10	5642.81	5492.81
35.0	4249.28	4255.93	4314.48	4352.47	4436.53	4371.21	4250.90	4064.43	3933.92	3898.14
37.5	2888.19	2922.73	2958.15	3047.80	3060.95	3053.69	2939.03	2811.80	2697.35	2646.65
40.0	1950.44	1957.65	2004.27	2061.31	2121.72	2095.15	1984.03	1904.66	1853.69	1846.84
42.5	1339.54	1338.33	1368.78	1413.25	1459.96	1444.37	1385.81	1322.67	1291.93	1287.90
45.0	952.34	958.74	956.86	1002.85	1001.94	999.19	975.95	950.22	936.75	930.93
47.5	684.76	708.49	708.88	717.17	723.76	723.91	712.19	699.84	678.97	665.39
50.0	521.35	517.36	526.24	537.55	528.80	531.00	520.23	520.48	514.28	527.43
52.5	400.70	403.66	406.83	405.18	406.70	404.12	401.96	401.57	403.98	405.49
55.0	319.30	311.70	319.94	309.19	315.66	315.19	316.36	317.29	307.67	323.16
57.5	255.56	251.53	244.59	254.85	252.64	243.16	253.25	252.09	258.03	260.21
60.0	200.66	203.66	203.35	205.93	197.05	201.81	204.31	201.68	211.70	206.81
62.5	171.95	163.85	169.18	164.06	164.70	170.76	169.77	166.72	171.72	165.11
65.0	144.94	144.91	140.15	140.99	137.37	128.73	138.74	142.13	140.13	143.45
67.5	116.62	125.48	117.90	121.83	114.77	117.00	122.51	124.72	118.13	116.67
70.0	101.12	101.45	100.23	99.76	94.93	98.20	101.43	101.89	104.11	102.58
72.5	89.16	83.50	81.61	84.01	80.01	82.20	83.26	83.90	87.49	86.32
75.0	73.29	73.03	67.86	69.33	68.25	67.04	71.18	68.62	70.83	68.96
77.5	59.19	61.53	63.92	57.90	59.39	55.47	55.53	63.26	59.90	58.08
80.0	49.09	44.58	49.05	45.91	44.49	47.95	48.60	46.67	50.28	48.73
82.5	35.95	37.77	36.68	36.58	36.10	34.33	36.89	38.05	39.02	37.54
85.0	23.09	22.99	21.82	21.79	24.63	23.01	22.02	21.00	22.08	23.83
87.5	5.72	5.77	5.51	5.60	4.46	5.01	5.40	5.56	5.60	4.70
90.0	0.00	0.00	0.06	0.01	0.06	0.02	0.00	0.00	0.00	0.00
92.5	0.03	0.01	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	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.03	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	0.01	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	0.01	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	0.01	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

135.0	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
137.5	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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	0.01	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.10	0.24	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.05	0.19	0.01	0.01	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.01	0.01	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	0.02	0.11	0.00	0.01	0.00	0.00	0.00	0.00	0.00
162.5	0.03	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	0.02	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	0.17	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	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44
2.5	51514.61	51374.60	51354.59	51238.95	51321.92	50962.63	51663.18	51563.76	51428.00	51551.02
5.0	48530.11	48692.80	48765.38	48798.68	49286.86	49546.91	50035.16	50424.51	50083.87	49904.05
7.5	45388.67	45720.76	46094.09	46521.49	46959.28	47310.02	47706.32	47961.61	47980.23	48166.70
10.0	41341.41	41669.35	42095.54	42751.93	43523.04	44291.77	44868.38	45250.93	45521.52	45333.56
12.5	36654.50	37184.70	37683.50	38500.25	39307.62	40178.67	40857.79	41379.35	41611.65	41608.02
15.0	31528.16	31932.81	32722.05	33648.84	34480.42	35630.26	36582.43	37113.61	37213.77	37255.25
17.5	26734.37	26992.01	27892.57	28644.20	29749.66	30572.68	31498.87	32093.16	32268.45	32350.68
20.0	22101.62	22433.59	22955.78	23775.25	24656.83	25528.36	26325.07	27052.07	27122.96	27104.68
22.5	17733.18	18136.92	18616.26	19188.11	19869.82	20585.56	21255.37	21838.18	21936.57	21920.34
25.0	14000.32	14220.20	14671.16	15067.19	15609.47	16147.85	16523.63	16946.72	17109.01	17004.38
27.5	10605.98	10762.21	11227.66	11509.85	11851.53	12184.17	12449.50	12603.51	12788.94	12736.21
30.0	7831.45	8042.71	8322.70	8554.12	8761.31	8878.02	9036.77	9101.16	9030.54	9100.29
32.5	5568.38	5812.49	6027.32	6172.14	6329.40	6403.25	6354.67	6316.44	6321.12	6336.65
35.0	3911.45	4068.40	4234.01	4430.92	4470.42	4449.92	4368.74	4311.90	4303.13	4363.52
37.5	2723.52	2816.82	2931.93	3054.61	3096.35	3048.30	2984.83	2933.11	2880.30	2942.72
40.0	1858.43	1929.08	2033.46	2128.21	2106.38	2091.82	2014.48	1985.77	1960.31	1977.37
42.5	1294.32	1348.28	1373.69	1453.56	1449.05	1434.48	1368.50	1362.33	1354.65	1388.59
45.0	907.85	930.75	967.45	1012.67	1011.13	1007.00	960.06	955.22	952.07	968.00
47.5	676.92	686.08	709.86	725.91	750.08	713.77	711.41	705.65	718.00	718.56
50.0	522.47	519.88	531.23	542.27	554.81	534.05	536.25	539.11	528.31	536.89
52.5	403.37	406.97	409.69	413.87	397.05	419.23	409.58	405.39	415.48	414.47
55.0	317.81	311.00	317.82	316.16	320.95	323.78	312.26	319.61	316.49	319.32
57.5	261.62	250.05	254.10	255.44	246.00	249.82	254.92	251.41	256.83	259.74
60.0	209.90	199.46	202.24	196.25	204.69	203.98	199.71	210.04	203.55	204.87
62.5	167.75	169.21	166.67	169.64	166.96	171.84	166.35	172.68	179.62	166.47
65.0	142.47	140.39	139.83	133.48	138.09	137.55	138.49	145.02	147.21	144.05
67.5	122.93	118.26	116.74	116.71	114.85	118.86	121.84	114.99	119.38	121.61
70.0	101.51	96.75	99.32	97.12	97.71	95.87	99.49	105.89	103.91	100.63
72.5	87.15	82.41	82.13	83.36	83.04	82.25	84.63	86.35	85.00	85.61
75.0	70.09	68.83	69.46	69.95	67.58	70.35	71.52	69.74	70.14	70.14
77.5	59.86	64.61	57.25	55.71	53.60	56.03	61.22	60.41	58.22	57.34
80.0	47.48	46.60	46.46	45.86	45.87	47.73	47.76	46.33	52.74	49.21

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CANDELA TABULATION - (Cont.)

82.5	40.74	37.21	34.13	35.00	37.08	36.90	37.32	39.25	41.37	35.40
85.0	22.77	22.03	19.78	21.12	19.08	23.77	23.44	21.70	22.75	23.57
87.5	4.80	4.88	4.45	4.31	4.51	4.99	5.53	5.29	5.10	4.12
90.0	0.01	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	0.05	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	0.01	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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	0.01	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	0.01	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	0.01	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	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44
2.5	51332.12	51932.74	51538.65	51242.60	51851.79	51565.34	51215.36	51469.67	51488.06	51686.72
5.0	50137.38	49881.89	49510.88	49617.73	49326.16	49125.41	49003.03	48962.95	49013.45	49130.13
7.5	47951.99	47844.28	47272.54	47042.32	46591.33	46218.74	46129.68	45903.82	46236.26	46319.40
10.0	44901.26	44856.04	44303.83	43747.42	43082.07	42556.58	42366.74	42024.33	42412.03	42495.30
12.5	41248.10	40689.57	39935.03	39157.39	38485.20	37772.19	37534.46	37194.84	37511.88	37832.94
15.0	36725.60	36028.06	35433.04	34382.10	33569.64	32696.17	32334.89	32036.54	32446.66	32934.39
17.5	31913.27	31158.18	30245.99	29242.55	28475.32	27607.41	27198.77	26954.68	27242.54	27707.65
20.0	26605.57	25938.29	25206.51	24088.36	23340.40	22651.36	22321.58	22063.10	22380.87	22664.77
22.5	21545.36	21005.72	20201.58	19582.29	18864.19	18179.02	17786.20	17585.53	17667.04	18164.22
25.0	16867.18	16362.07	15785.00	15142.05	14711.22	14214.91	13881.52	13662.09	13848.92	14231.91
27.5	12613.54	12321.49	11984.03	11548.18	11161.74	10776.06	10392.24	10357.71	10432.45	10801.78

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CANDELA TABULATION - (Cont.)

30.0	9072.43	8991.80	8865.60	8472.08	8204.48	7903.02	7692.37	7508.20	7610.88	7845.81
32.5	6434.30	6474.47	6359.00	6174.51	5900.97	5664.17	5437.11	5389.70	5400.33	5574.75
35.0	4419.17	4449.06	4503.64	4338.67	4167.85	3919.54	3785.13	3739.58	3806.10	3906.82
37.5	2977.96	3097.53	3100.06	3040.58	2893.94	2731.85	2583.26	2590.70	2614.00	2692.58
40.0	2018.76	2083.70	2112.40	2090.80	1961.34	1849.78	1808.14	1802.48	1805.85	1862.23
42.5	1399.37	1429.52	1453.45	1436.56	1361.60	1312.86	1270.72	1265.60	1273.06	1306.12
45.0	983.93	1017.06	999.00	1005.80	958.43	918.27	910.76	897.35	918.53	938.83
47.5	712.44	725.41	736.71	731.89	700.93	689.81	687.24	678.84	672.66	675.90
50.0	521.86	531.36	545.40	532.59	524.51	521.44	519.84	522.41	508.06	517.83
52.5	411.48	402.00	403.56	403.19	411.67	407.79	404.64	390.68	398.67	404.61
55.0	322.00	319.02	320.56	314.38	321.87	320.51	312.40	315.10	317.94	329.45
57.5	251.01	250.21	249.70	249.44	256.89	255.86	251.85	257.88	250.23	251.06
60.0	203.38	201.01	199.51	203.60	207.47	200.99	204.36	215.12	201.80	204.85
62.5	168.22	164.13	169.64	166.40	169.73	170.12	174.56	170.27	178.87	173.54
65.0	139.21	133.45	142.39	138.79	138.45	140.96	146.84	140.97	139.11	142.66
67.5	119.34	115.85	117.81	116.24	113.78	111.42	117.53	117.44	124.88	115.92
70.0	99.97	97.68	95.65	96.80	97.49	102.07	100.64	101.42	100.01	97.25
72.5	83.11	83.32	85.32	79.84	80.73	81.66	81.14	84.48	85.23	85.38
75.0	73.29	69.85	67.22	65.87	65.71	68.56	72.76	69.07	69.24	72.27
77.5	55.49	56.36	53.50	53.17	57.58	55.63	55.93	55.38	60.42	56.23
80.0	46.49	48.25	45.70	47.43	47.62	46.56	48.34	48.47	49.71	44.36
82.5	36.25	36.27	36.74	34.75	34.81	36.50	34.56	38.62	36.65	35.54
85.0	19.94	21.44	20.54	22.02	23.33	20.05	20.45	23.22	21.54	21.39
87.5	5.68	4.28	5.03	5.48	4.25	5.38	4.69	4.75	4.67	5.67
90.0	0.00	0.00	0.01	0.00	0.00	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	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	0.01	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	0.01	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	0.03	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	0.01	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	0.01
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
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	0.01	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	0.01
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44	53565.44
2.5	51714.71	51311.72	52225.61	51990.82	52136.81	50830.84	51537.87
5.0	49498.61	49371.21	49570.83	49960.32	49906.61	49986.74	50291.26
7.5	46638.66	46883.94	47201.98	47535.11	47955.07	47949.11	48127.18
10.0	43076.39	43481.41	44430.36	44755.70	45286.90	45549.95	44869.19
12.5	38437.54	39032.94	39858.07	40741.64	41096.40	41482.87	41606.37
15.0	33425.90	34289.54	35352.61	36178.85	36625.58	37180.56	37045.55
17.5	28503.31	29195.91	30048.18	30955.30	31811.68	32136.08	32279.42
20.0	23514.22	24156.24	25000.92	25793.04	26441.52	26937.91	27074.90
22.5	18813.75	19387.28	20157.43	20799.09	21345.25	21578.93	21782.31
25.0	14654.32	15266.48	15746.06	16165.29	16621.32	16844.86	16804.37
27.5	11125.51	11486.66	11814.03	12172.89	12363.38	12489.80	12563.84
30.0	8174.69	8482.42	8689.83	8924.58	8937.64	8971.69	8948.43
32.5	5863.37	6113.14	6283.60	6341.77	6340.75	6286.03	6254.74
35.0	4137.72	4321.96	4449.12	4418.44	4391.27	4263.74	4249.28
37.5	2883.30	2996.11	3059.53	3049.01	3015.01	2929.37	2888.19
40.0	1973.89	2045.30	2109.00	2102.28	2022.90	1964.72	1950.44
42.5	1363.73	1431.81	1453.46	1425.58	1395.02	1332.84	1339.62
45.0	966.32	989.28	1008.22	992.59	983.70	963.25	952.34
47.5	707.71	715.23	735.79	716.00	715.49	692.45	684.76
50.0	529.94	525.38	537.08	528.42	531.13	516.41	521.35
52.5	394.29	408.14	402.21	404.40	403.85	407.49	400.76
55.0	315.92	313.07	316.59	317.13	316.92	311.67	319.30
57.5	255.02	255.97	241.12	250.40	248.82	252.73	255.69
60.0	203.52	202.71	197.47	201.35	201.38	206.31	200.67
62.5	166.52	161.00	161.31	171.73	166.66	168.43	171.95
65.0	141.13	141.10	137.36	137.68	141.18	144.30	144.94
67.5	118.24	118.58	115.56	115.13	116.02	116.30	116.67
70.0	95.62	95.66	98.97	98.08	95.36	104.68	101.12
72.5	82.49	80.22	80.85	81.37	82.79	84.74	89.16
75.0	69.23	72.16	69.74	69.12	70.35	70.34	73.29
77.5	55.26	58.23	53.49	58.52	54.94	58.00	59.19
80.0	45.01	45.80	44.37	45.61	47.15	46.25	49.09
82.5	36.05	34.53	33.07	35.97	37.55	34.51	35.98
85.0	20.21	21.61	21.09	22.44	19.70	22.08	23.09
87.5	5.22	4.68	4.90	4.76	4.94	5.21	5.72
90.0	0.00	0.00	0.07	0.05	0.00	0.06	0.00
92.5	0.00	0.00	0.00	0.00	0.01	0.00	0.03
95.0	0.00	0.00	0.00	0.04	0.00	0.03	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.05
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.05
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.03
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	0.01
140.0	0.00	0.00	0.00	0.01	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	0.06	0.00	0.00	0.00
150.0	0.00	0.01	0.00	0.00	0.00	0.02	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	0.01	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.09	0.00
160.0	0.03	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	0.03
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	0.17
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	13988.26	N.A.	55.40
0-30	21084.5	N.A.	83.50
0-40	23899.67	N.A.	94.60
0-60	25015.58	N.A.	99.00
0-80	25233.53	N.A.	99.90
0-90	25257.2	N.A.	100.00
10-90	20715.83	N.A.	82.00
20-40	9911.41	N.A.	39.20
20-50	10729.32	N.A.	42.50
40-70	1258.88	N.A.	5.00
60-80	217.95	N.A.	0.90
70-80	74.98	N.A.	0.30
80-90	23.67	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	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.01	N.A.	0.00
0-180	25257.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4541.37
10-20	9446.89
20-30	7096.24
30-40	2815.17
40-50	817.91
50-60	298.00
60-70	142.97
70-80	74.98
80-90	23.67
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

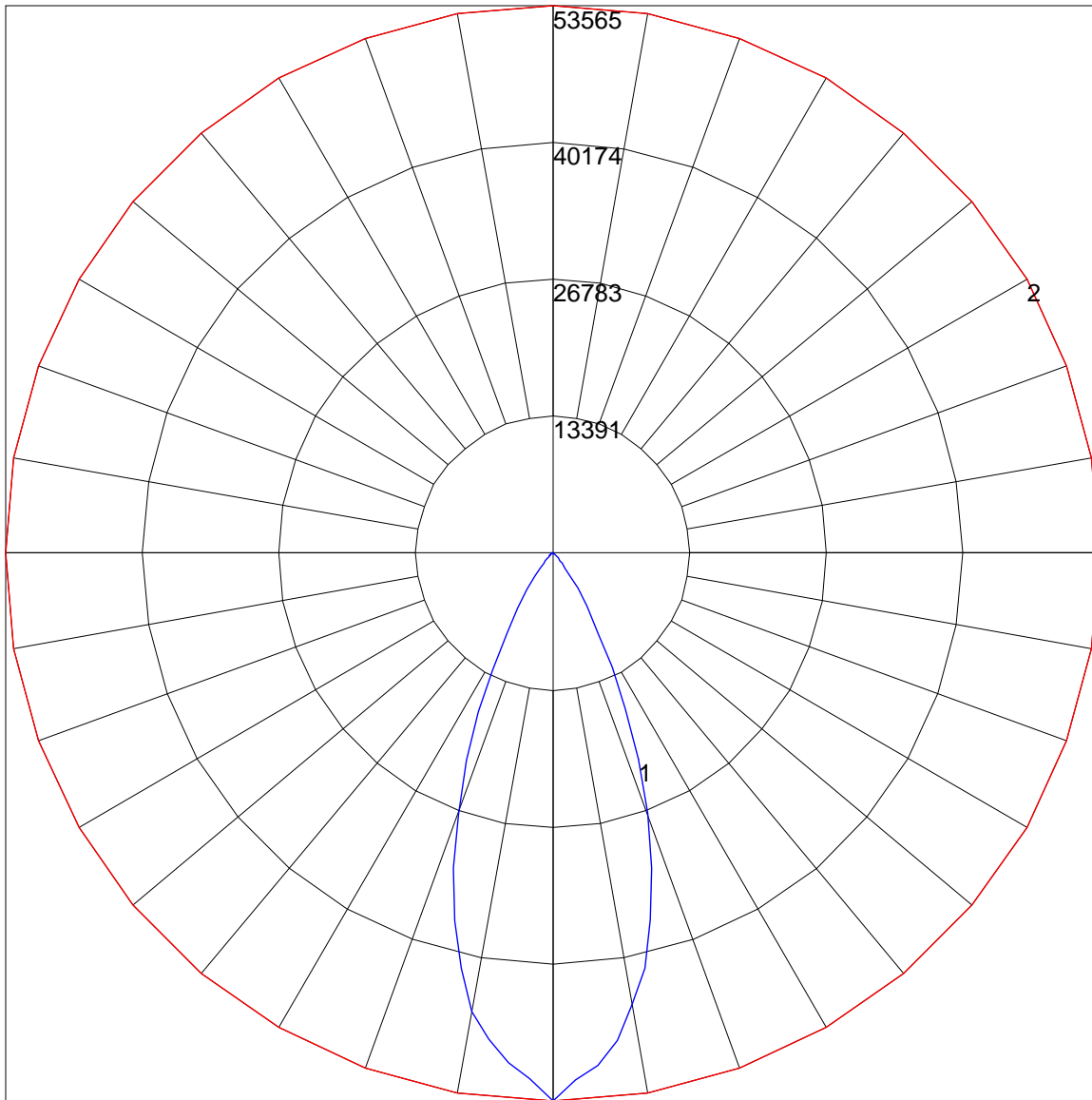
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	80	78	83	79	77	76
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60

POLAR GRAPH



Maximum Candela = 53565.44 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.)