



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTVHOWT40WBD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB]

[TESTDATE] 2015-12-24

[ISSUEDATE] 2015-12-24 11:57:59

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] NUVHTVHOWT40WBD120-277V

[LAMP] 4000K Ra80

CHARACTERISTICS

Lumens Per Lamp	35692 (1 lamp)
Total Lamp Lumens	35692
Luminaire Lumens	35696
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	305.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.38 m (Diameter)
Luminous Width (90-270)	0.38 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	112789	110431	110186
55	62816	61436	61348
65	35946	35148	35412
75	22172	21781	22217
85	4676	4447	3306

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CANDELA TABULATION

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	16946.76	16946.76	16946.76	16946.76	16946.76	16946.76	16946.76	16946.76	16946.76	16946.76
1	16945.42	16945.75	16945.58	16945.47	16945.32	16945.49	16945.42	16945.49	16945.32	16945.47
2	16941.63	16943.75	16943.55	16942.76	16941.06	16941.10	16941.63	16941.10	16941.06	16942.76
3	16936.11	16940.05	16940.30	16937.15	16933.63	16933.75	16936.11	16933.75	16933.63	16937.15
4	16928.23	16933.81	16934.60	16930.07	16923.79	16923.48	16928.23	16923.48	16923.79	16930.07
5	16917.96	16926.63	16927.54	16920.92	16910.83	16911.66	16917.96	16911.66	16910.83	16920.92
6	16905.17	16916.81	16918.97	16909.38	16894.99	16895.98	16905.17	16895.98	16894.99	16909.38
7	16890.18	16905.60	16908.25	16896.78	16876.64	16878.44	16890.18	16878.44	16876.64	16896.78
8	16872.77	16891.32	16896.17	16881.78	16854.88	16857.47	16872.77	16857.47	16854.88	16881.78
9	16852.98	16875.54	16880.99	16863.17	16830.35	16833.52	16852.98	16833.52	16830.35	16863.17
10	16829.93	16856.80	16863.10	16842.43	16802.49	16805.62	16829.93	16805.62	16802.49	16842.43
11	16803.57	16835.60	16842.59	16817.99	16770.06	16774.55	16803.57	16774.55	16770.06	16817.99
12	16774.20	16810.73	16818.73	16789.95	16734.93	16739.87	16774.20	16739.87	16734.93	16789.95
13	16740.28	16783.09	16791.80	16757.90	16694.43	16701.32	16740.28	16701.32	16694.43	16757.90
14	16702.74	16752.00	16760.63	16721.35	16649.79	16659.15	16702.74	16659.15	16649.79	16721.35
15	16660.14	16715.18	16724.80	16680.18	16600.33	16611.73	16660.14	16611.73	16600.33	16680.18
16	16612.91	16674.56	16683.28	16633.47	16546.11	16559.14	16612.91	16559.14	16546.11	16633.47
17	16560.61	16627.85	16635.84	16580.00	16487.02	16500.36	16560.61	16500.36	16487.02	16580.00
18	16502.77	16574.82	16582.06	16520.09	16420.79	16435.29	16502.77	16435.29	16420.79	16520.09
19	16436.15	16515.13	16521.80	16452.27	16347.06	16363.99	16436.15	16363.99	16347.06	16452.27
20	16363.16	16446.86	16451.75	16375.89	16267.38	16284.75	16363.16	16284.75	16267.38	16375.89
21	16281.09	16369.47	16372.84	16290.79	16179.36	16199.10	16281.09	16199.10	16179.36	16290.79
22	16190.36	16281.60	16282.56	16195.37	16082.11	16104.58	16190.36	16104.58	16082.11	16195.37
23	16090.19	16182.38	16181.17	16090.14	15975.16	15998.47	16090.19	15998.47	15975.16	16090.14
24	15977.88	16070.67	16067.08	15969.90	15859.35	15883.27	15977.88	15883.27	15859.35	15969.90
25	15854.81	15945.51	15938.08	15839.20	15733.31	15756.62	15854.81	15756.62	15733.31	15839.20
26	15716.01	15804.01	15793.55	15693.61	15593.34	15617.22	15716.01	15617.22	15593.34	15693.61
27	15561.52	15644.90	15629.84	15530.93	15441.32	15464.39	15561.52	15464.39	15441.32	15530.93
28	15392.95	15470.64	15449.34	15352.32	15276.72	15297.81	15392.95	15297.81	15276.72	15352.32
29	15207.13	15274.14	15249.85	15155.68	15096.85	15117.12	15207.13	15117.12	15096.85	15155.68
30	15001.84	15056.27	15029.57	14936.69	14901.45	14920.65	15001.84	14920.65	14901.45	14936.69
31	14774.09	14816.89	14783.46	14698.07	14687.87	14702.98	14774.09	14702.98	14687.87	14698.07
32	14526.60	14554.42	14515.58	14436.59	14458.17	14467.26	14526.60	14467.26	14458.17	14436.59
33	14255.49	14267.67	14220.61	14153.49	14207.13	14213.52	14255.49	14213.52	14207.13	14153.49
34	13961.43	13952.77	13901.91	13843.69	13936.47	13935.59	13961.43	13935.59	13936.47	13843.69
35	13643.34	13612.66	13559.00	13510.71	13643.50	13634.59	13643.34	13634.59	13643.50	13510.71
36	13295.28	13248.05	13188.46	13149.60	13326.52	13308.43	13295.28	13308.43	13326.52	13149.60
37	12925.50	12856.31	12794.03	12764.67	12990.84	12960.28	12925.50	12960.28	12990.84	12764.67
38	12526.03	12435.82	12369.06	12352.41	12624.21	12577.02	12526.03	12577.02	12624.21	12352.41
39	12096.29	11993.04	11923.01	11914.97	12232.49	12176.56	12096.29	12176.56	12232.49	11914.97
40	11644.79	11521.22	11451.74	11450.00	11816.19	11745.03	11644.79	11745.03	11816.19	11450.00
41	11167.02	11029.79	10958.94	10961.58	11373.80	11285.24	11167.02	11285.24	11373.80	10961.58
42	10663.61	10515.47	10449.55	10455.21	10904.62	10802.88	10663.61	10802.88	10904.62	10455.21
43	10140.30	9983.42	9921.99	9929.74	10413.77	10294.93	10140.30	10294.93	10413.77	9929.74
44	9598.40	9434.59	9383.70	9389.82	9903.37	9767.34	9598.40	9767.34	9903.37	9389.82
45	9048.85	8882.60	8836.78	8840.05	9376.58	9229.86	9048.85	9229.86	9376.58	8840.05
46	8484.78	8329.40	8286.52	8289.83	8834.86	8673.16	8484.78	8673.16	8834.86	8289.83
47	7925.99	7777.71	7736.53	7735.72	8292.53	8117.20	7925.99	8117.20	8292.53	7735.72
48	7366.64	7231.87	7198.82	7192.97	7747.44	7563.96	7366.64	7563.96	7747.44	7192.97
49	6822.13	6696.42	6669.69	6661.43	7208.42	7019.04	6822.13	7019.04	7208.42	6661.43
50	6298.07	6179.93	6160.72	6146.73	6681.36	6485.97	6298.07	6485.97	6681.36	6146.73
51	5789.51	5687.25	5666.25	5663.55	6166.49	5976.38	5789.51	5976.38	6166.49	5663.55
52	5316.55	5221.33	5200.95	5199.43	5684.85	5496.54	5316.55	5496.54	5684.85	5199.43
53	4871.36	4785.19	4764.77	4767.17	5220.75	5045.89	4871.36	5045.89	5220.75	4767.17

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54	4465.08	4383.28	4359.48	4364.58	4795.83	4625.70	4465.08	4625.70	4795.83	4364.58
55	4087.92	4012.79	3983.43	3992.40	4394.63	4243.45	4087.92	4243.45	4394.63	3992.40
56	3747.15	3674.29	3646.24	3654.83	4029.22	3893.61	3747.15	3893.61	4029.22	3654.83
57	3437.95	3367.57	3348.68	3348.19	3700.36	3574.45	3437.95	3574.45	3700.36	3348.19
58	3154.37	3089.33	3072.43	3076.99	3391.73	3284.21	3154.37	3284.21	3391.73	3076.99
59	2901.35	2833.24	2808.17	2826.26	3116.67	3026.15	2901.35	3026.15	3116.67	2826.26
60	2662.58	2608.25	2582.48	2610.10	2861.62	2777.06	2662.58	2777.06	2861.62	2610.10
61	2433.45	2392.55	2371.06	2400.18	2635.15	2538.50	2433.45	2538.50	2635.15	2400.18
62	2234.89	2185.42	2178.24	2192.96	2412.37	2332.30	2234.89	2332.30	2412.37	2192.96
63	2047.94	2006.90	1993.79	2014.11	2197.55	2136.75	2047.94	2136.75	2197.55	2014.11
64	1878.64	1841.22	1830.23	1849.27	2011.89	1958.24	1878.64	1958.24	2011.89	1849.27
65	1723.61	1691.16	1679.58	1697.99	1843.84	1798.35	1723.61	1798.35	1843.84	1697.99
66	1582.56	1553.52	1544.48	1561.23	1690.26	1649.86	1582.56	1649.86	1690.26	1561.23
67	1450.72	1422.76	1419.37	1435.20	1547.34	1512.61	1450.72	1512.61	1547.34	1435.20
68	1327.68	1305.86	1300.99	1317.60	1412.36	1383.62	1327.68	1383.62	1412.36	1317.60
69	1214.83	1191.25	1189.03	1203.18	1287.78	1263.89	1214.83	1263.89	1287.78	1203.18
70	1104.87	1079.42	1084.71	1098.39	1170.48	1152.84	1104.87	1152.84	1170.48	1098.39
71	1006.06	979.22	989.37	999.87	1058.95	1045.63	1006.06	1045.63	1058.95	999.87
72	910.01	886.78	895.44	906.73	957.52	942.52	910.01	942.52	957.52	906.73
73	822.10	800.60	803.63	816.26	861.22	849.68	822.10	849.68	861.22	816.26
74	734.37	717.45	719.92	732.61	770.46	760.19	734.37	760.19	770.46	732.61
75	651.08	638.84	640.36	652.41	683.65	675.34	651.08	675.34	683.65	652.41
76	570.82	563.07	563.72	572.18	600.16	592.53	570.82	592.53	600.16	572.18
77	493.63	488.06	488.69	497.79	516.44	511.35	493.63	511.35	516.44	497.79
78	419.61	416.74	416.99	422.96	437.48	433.53	419.61	433.53	437.48	422.96
79	350.65	345.02	350.51	350.78	362.73	358.38	350.65	358.38	362.73	350.78
80	285.81	279.64	284.91	285.45	294.11	288.60	285.81	288.60	294.11	285.45
81	221.17	221.21	219.60	220.84	226.63	227.02	221.17	227.02	226.63	220.84
82	166.20	166.13	162.37	159.24	160.93	172.31	166.20	172.31	160.93	159.24
83	114.45	120.91	112.58	113.49	109.69	117.65	114.45	117.65	109.69	113.49
84	70.95	82.23	73.70	71.03	66.03	68.06	70.95	68.06	66.03	71.03
85	46.24	46.72	41.22	32.69	33.47	41.91	46.24	41.91	33.47	32.69
86	26.38	26.11	16.15	12.75	17.20	24.54	26.38	24.54	17.20	12.75
87	14.32	12.98	9.29	9.00	9.91	13.39	14.32	13.39	9.91	9.00
88	8.77	8.48	7.98	7.85	8.34	8.72	8.77	8.72	8.34	7.85
89	8.38	8.12	7.46	7.36	8.11	8.45	8.38	8.45	8.11	7.36
90	8.15	7.91	7.77	7.80	8.31	8.32	8.15	8.32	8.31	7.80
91	8.50	8.38	8.31	8.38	8.91	8.71	8.50	8.71	8.91	8.38
92	9.13	9.00	8.94	9.00	9.59	9.36	9.13	9.36	9.59	9.00
93	9.84	9.69	9.65	9.68	10.33	10.10	9.84	10.10	10.33	9.68
94	10.63	10.43	10.39	10.41	11.12	10.89	10.63	10.89	11.12	10.41
95	11.45	11.23	11.20	11.22	12.02	11.74	11.45	11.74	12.02	11.22
96	12.33	12.14	12.06	12.10	12.95	12.63	12.33	12.63	12.95	12.10
97	13.29	13.08	12.98	13.05	13.96	13.62	13.29	13.62	13.96	13.05
98	14.31	14.08	13.98	14.04	15.03	14.67	14.31	14.67	15.03	14.04
99	15.41	15.15	15.06	15.09	16.16	15.80	15.41	15.80	16.16	15.09
100	16.60	16.29	16.20	16.22	17.36	16.99	16.60	16.99	17.36	16.22
101	17.81	17.50	17.40	17.41	18.64	18.25	17.81	18.25	18.64	17.41
102	19.11	18.78	18.66	18.69	19.99	19.56	19.11	19.56	19.99	18.69
103	20.48	20.15	20.00	20.05	21.40	20.95	20.48	20.95	21.40	20.05
104	21.92	21.57	21.40	21.44	22.87	22.41	21.92	22.41	22.87	21.44
105	23.42	23.05	22.90	22.90	24.41	23.95	23.42	23.95	24.41	22.90
106	25.01	24.59	24.43	24.42	25.99	25.54	25.01	25.54	25.99	24.42
107	26.64	26.22	26.04	26.01	27.67	27.20	26.64	27.20	27.67	26.01
108	28.34	27.90	27.71	27.68	29.41	28.91	28.34	28.91	29.41	27.68
109	30.09	29.65	29.42	29.42	31.20	30.68	30.09	30.68	31.20	29.42

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110	31.92	31.44	31.21	31.18	33.05	32.50	31.92	32.50	33.05	31.18
111	33.77	33.29	33.05	33.01	34.93	34.39	33.77	34.39	34.93	33.01
112	35.68	35.19	34.94	34.91	36.86	36.32	35.68	36.32	36.86	34.91
113	37.66	37.12	36.91	36.83	38.86	38.30	37.66	38.30	38.86	36.83
114	39.64	39.14	38.89	38.79	40.88	40.33	39.64	40.33	40.88	38.79
115	41.71	41.18	40.90	40.81	42.95	42.39	41.71	42.39	42.95	40.81
116	43.79	43.27	42.98	42.87	45.04	44.48	43.79	44.48	45.04	42.87
117	45.94	45.38	45.09	44.96	47.20	46.61	45.94	46.61	47.20	44.96
118	48.08	47.52	47.22	47.09	49.35	48.78	48.08	48.78	49.35	47.09
119	50.27	49.69	49.39	49.24	51.55	50.96	50.27	50.96	51.55	49.24
120	52.50	51.90	51.58	51.41	53.78	53.18	52.50	53.18	53.78	51.41
121	54.74	54.15	53.81	53.63	56.00	55.42	54.74	55.42	56.00	53.63
122	57.00	56.42	56.08	55.87	58.26	57.70	57.00	57.70	58.26	55.87
123	59.29	58.71	58.35	58.13	60.54	59.98	59.29	59.98	60.54	58.13
124	61.59	61.00	60.64	60.41	62.82	62.27	61.59	62.27	62.82	60.41
125	63.91	63.30	62.95	62.70	65.12	64.60	63.91	64.60	65.12	62.70
126	66.24	65.62	65.26	64.98	67.42	66.90	66.24	66.90	67.42	64.98
127	68.55	67.96	67.58	67.31	69.73	69.21	68.55	69.21	69.73	67.31
128	70.87	70.28	69.88	69.61	72.03	71.52	70.87	71.52	72.03	69.61
129	73.20	72.60	72.20	71.92	74.33	73.85	73.20	73.85	74.33	71.92
130	75.51	74.91	74.52	74.20	76.61	76.13	75.51	76.13	76.61	74.20
131	77.82	77.22	76.81	76.53	78.89	78.42	77.82	78.42	78.89	76.53
132	80.12	79.53	79.12	78.80	81.17	80.71	80.12	80.71	81.17	78.80
133	82.39	81.80	81.38	81.06	83.40	82.96	82.39	82.96	83.40	81.06
134	84.62	84.06	83.63	83.30	85.63	85.22	84.62	85.22	85.63	83.30
135	86.86	86.28	85.86	85.55	87.84	87.41	86.86	87.41	87.84	85.55
136	89.07	88.50	88.07	87.76	90.03	89.62	89.07	89.62	90.03	87.76
137	91.22	90.68	90.23	89.93	92.16	91.77	91.22	91.77	92.16	89.93
138	93.38	92.82	92.38	92.07	94.27	93.90	93.38	93.90	94.27	92.07
139	95.48	94.93	94.49	94.18	96.36	95.99	95.48	95.99	96.36	94.18
140	97.56	97.03	96.54	96.27	98.42	98.07	97.56	98.07	98.42	96.27
141	99.62	99.08	98.61	98.34	100.44	100.13	99.62	100.13	100.44	98.34
142	101.63	101.11	100.62	100.36	102.44	102.12	101.63	102.12	102.44	100.36
143	103.63	103.10	102.62	102.36	104.42	104.12	103.63	104.12	104.42	102.36
144	105.57	105.07	104.57	104.33	106.37	106.08	105.57	106.08	106.37	104.33
145	107.54	107.02	106.53	106.31	108.33	108.03	107.54	108.03	108.33	106.31
146	109.47	108.98	108.49	108.26	110.26	109.98	109.47	109.98	110.26	108.26
147	111.40	110.93	110.44	110.22	112.19	111.93	111.40	111.93	112.19	110.22
148	113.34	112.89	112.40	112.15	114.15	113.87	113.34	113.87	114.15	112.15
149	115.30	114.83	114.37	114.12	116.10	115.80	115.30	115.80	116.10	114.12
150	117.26	116.83	116.36	116.10	118.08	117.77	117.26	117.77	118.08	116.10
151	119.24	118.81	118.36	118.09	120.08	119.75	119.24	119.75	120.08	118.09
152	121.27	120.82	120.38	120.12	122.11	121.75	121.27	121.75	122.11	120.12
153	123.28	122.86	122.44	122.18	124.15	123.79	123.28	123.79	124.15	122.18
154	125.35	124.90	124.51	124.26	126.20	125.85	125.35	125.85	126.20	124.26
155	127.46	127.00	126.63	126.41	128.31	127.94	127.46	127.94	128.31	126.41
156	129.58	129.14	128.77	128.57	130.43	130.10	129.58	130.10	130.43	128.57
157	131.73	131.28	130.92	130.75	132.58	132.25	131.73	132.25	132.58	130.75
158	133.90	133.42	133.11	132.93	134.72	134.39	133.90	134.39	134.72	132.93
159	136.06	135.59	135.29	135.11	136.85	136.53	136.06	136.53	136.85	135.11
160	138.19	137.73	137.44	137.27	138.95	138.65	138.19	138.65	138.95	137.27
161	140.31	139.85	139.58	139.41	141.02	140.74	140.31	140.74	141.02	139.41
162	142.41	141.96	141.68	141.53	143.06	142.81	142.41	142.81	143.06	141.53
163	144.45	144.01	143.74	143.60	145.06	144.84	144.45	144.84	145.06	143.60
164	146.46	146.05	145.79	145.62	147.01	146.84	146.46	146.84	147.01	145.62
165	148.41	148.02	147.75	147.58	148.91	148.76	148.41	148.76	148.91	147.58

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CANDELA TABULATION - (Cont.)

166	150.30	149.94	149.67	149.49	150.74	150.64	150.30	150.64	150.74	149.49
167	152.13	151.79	151.54	151.36	152.51	152.43	152.13	152.43	152.51	151.36
168	153.87	153.56	153.33	153.16	154.20	154.16	153.87	154.16	154.20	153.16
169	155.56	155.28	155.04	154.87	155.82	155.83	155.56	155.83	155.82	154.87
170	157.22	156.98	156.74	156.57	157.41	157.45	157.22	157.45	157.41	156.57
171	158.80	158.56	158.35	158.17	158.93	158.98	158.80	158.98	158.93	158.17
172	160.18	159.95	159.77	159.57	160.28	160.34	160.18	160.34	160.28	159.57
173	161.37	161.16	160.98	160.80	161.42	161.48	161.37	161.48	161.42	160.80
174	162.46	162.27	162.10	161.88	162.45	162.54	162.46	162.54	162.45	161.88
175	163.42	163.28	163.11	162.87	163.38	163.49	163.42	163.49	163.38	162.87
176	164.23	164.10	163.92	163.69	164.18	164.29	164.23	164.29	164.18	163.69
177	164.93	164.80	164.62	164.37	164.85	164.96	164.93	164.96	164.85	164.37
178	165.49	165.37	165.16	164.93	165.39	165.50	165.49	165.50	165.39	164.93
179	165.90	165.79	165.57	165.35	165.78	165.91	165.90	165.91	165.78	165.35
180	165.58	165.58	165.58	165.58	165.58	165.58	165.58	165.58	165.58	165.58

Vert. Angles	Horizontal Angles		
	<u>300</u>	<u>330</u>	<u>360</u>
0	16946.76	16946.76	16946.76
1	16945.58	16945.75	16945.42
2	16943.55	16943.75	16941.63
3	16940.30	16940.05	16936.11
4	16934.60	16933.81	16928.23
5	16927.54	16926.63	16917.96
6	16918.97	16916.81	16905.17
7	16908.25	16905.60	16890.18
8	16896.17	16891.32	16872.77
9	16880.99	16875.54	16852.98
10	16863.10	16856.80	16829.93
11	16842.59	16835.60	16803.57
12	16818.73	16810.73	16774.20
13	16791.80	16783.09	16740.28
14	16760.63	16752.00	16702.74
15	16724.80	16715.18	16660.14
16	16683.28	16674.56	16612.91
17	16635.84	16627.85	16560.61
18	16582.06	16574.82	16502.77
19	16521.80	16515.13	16436.15
20	16451.75	16446.86	16363.16
21	16372.84	16369.47	16281.09
22	16282.56	16281.60	16190.36
23	16181.17	16182.38	16090.19
24	16067.08	16070.67	15977.88
25	15938.08	15945.51	15854.81
26	15793.55	15804.01	15716.01
27	15629.84	15644.90	15561.52
28	15449.34	15470.64	15392.95
29	15249.85	15274.14	15207.13
30	15029.57	15056.27	15001.84
31	14783.46	14816.89	14774.09
32	14515.58	14554.42	14526.60
33	14220.61	14267.67	14255.49
34	13901.91	13952.77	13961.43
35	13559.00	13612.66	13643.34
36	13188.46	13248.05	13295.28

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CANDELA TABULATION - (Cont.)

37	12794.03	12856.31	12925.50
38	12369.06	12435.82	12526.03
39	11923.01	11993.04	12096.29
40	11451.74	11521.22	11644.79
41	10958.94	11029.79	11167.02
42	10449.55	10515.47	10663.61
43	9921.99	9983.42	10140.30
44	9383.70	9434.59	9598.40
45	8836.78	8882.60	9048.85
46	8286.52	8329.40	8484.78
47	7736.53	7777.71	7925.99
48	7198.82	7231.87	7366.64
49	6669.69	6696.42	6822.13
50	6160.72	6179.93	6298.07
51	5666.25	5687.25	5789.51
52	5200.95	5221.33	5316.55
53	4764.77	4785.19	4871.36
54	4359.48	4383.28	4465.08
55	3983.43	4012.79	4087.92
56	3646.24	3674.29	3747.15
57	3348.68	3367.57	3437.95
58	3072.43	3089.33	3154.37
59	2808.17	2833.24	2901.35
60	2582.48	2608.25	2662.58
61	2371.06	2392.55	2433.45
62	2178.24	2185.42	2234.89
63	1993.79	2006.90	2047.94
64	1830.23	1841.22	1878.64
65	1679.58	1691.16	1723.61
66	1544.48	1553.52	1582.56
67	1419.37	1422.76	1450.72
68	1300.99	1305.86	1327.68
69	1189.03	1191.25	1214.83
70	1084.71	1079.42	1104.87
71	989.37	979.22	1006.06
72	895.44	886.78	910.01
73	803.63	800.60	822.10
74	719.92	717.45	734.37
75	640.36	638.84	651.08
76	563.72	563.07	570.82
77	488.69	488.06	493.63
78	416.99	416.74	419.61
79	350.51	345.02	350.65
80	284.91	279.64	285.81
81	219.60	221.21	221.17
82	162.37	166.13	166.20
83	112.58	120.91	114.45
84	73.70	82.23	70.95
85	41.22	46.72	46.24
86	16.15	26.11	26.38
87	9.29	12.98	14.32
88	7.98	8.48	8.77
89	7.46	8.12	8.38
90	7.77	7.91	8.15
91	8.31	8.38	8.50
92	8.94	9.00	9.13

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CANDELA TABULATION - (Cont.)

93	9.65	9.69	9.84
94	10.39	10.43	10.63
95	11.20	11.23	11.45
96	12.06	12.14	12.33
97	12.98	13.08	13.29
98	13.98	14.08	14.31
99	15.06	15.15	15.41
100	16.20	16.29	16.60
101	17.40	17.50	17.81
102	18.66	18.78	19.11
103	20.00	20.15	20.48
104	21.40	21.57	21.92
105	22.90	23.05	23.42
106	24.43	24.59	25.01
107	26.04	26.22	26.64
108	27.71	27.90	28.34
109	29.42	29.65	30.09
110	31.21	31.44	31.92
111	33.05	33.29	33.77
112	34.94	35.19	35.68
113	36.91	37.12	37.66
114	38.89	39.14	39.64
115	40.90	41.18	41.71
116	42.98	43.27	43.79
117	45.09	45.38	45.94
118	47.22	47.52	48.08
119	49.39	49.69	50.27
120	51.58	51.90	52.50
121	53.81	54.15	54.74
122	56.08	56.42	57.00
123	58.35	58.71	59.29
124	60.64	61.00	61.59
125	62.95	63.30	63.91
126	65.26	65.62	66.24
127	67.58	67.96	68.55
128	69.88	70.28	70.87
129	72.20	72.60	73.20
130	74.52	74.91	75.51
131	76.81	77.22	77.82
132	79.12	79.53	80.12
133	81.38	81.80	82.39
134	83.63	84.06	84.62
135	85.86	86.28	86.86
136	88.07	88.50	89.07
137	90.23	90.68	91.22
138	92.38	92.82	93.38
139	94.49	94.93	95.48
140	96.54	97.03	97.56
141	98.61	99.08	99.62
142	100.62	101.11	101.63
143	102.62	103.10	103.63
144	104.57	105.07	105.57
145	106.53	107.02	107.54
146	108.49	108.98	109.47
147	110.44	110.93	111.40
148	112.40	112.89	113.34

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CANDELA TABULATION - (Cont.)

149	114.37	114.83	115.30
150	116.36	116.83	117.26
151	118.36	118.81	119.24
152	120.38	120.82	121.27
153	122.44	122.86	123.28
154	124.51	124.90	125.35
155	126.63	127.00	127.46
156	128.77	129.14	129.58
157	130.92	131.28	131.73
158	133.11	133.42	133.90
159	135.29	135.59	136.06
160	137.44	137.73	138.19
161	139.58	139.85	140.31
162	141.68	141.96	142.41
163	143.74	144.01	144.45
164	145.79	146.05	146.46
165	147.75	148.02	148.41
166	149.67	149.94	150.30
167	151.54	151.79	152.13
168	153.33	153.56	153.87
169	155.04	155.28	155.56
170	156.74	156.98	157.22
171	158.35	158.56	158.80
172	159.77	159.95	160.18
173	160.98	161.16	161.37
174	162.10	162.27	162.46
175	163.11	163.28	163.42
176	163.92	164.10	164.23
177	164.62	164.80	164.93
178	165.16	165.37	165.49
179	165.57	165.79	165.90
180	165.58	165.58	165.58

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6323.12	17.70	17.70
0-30	13609.78	38.10	38.10
0-40	22043.36	61.80	61.80
0-60	32745.2	91.70	91.70
0-80	35222.23	98.70	98.70
0-90	35310.2	98.90	98.90
10-90	33697.86	94.40	94.40
20-40	15720.24	44.00	44.00
20-50	22638.18	63.40	63.40
40-70	12472.8	34.90	34.90
60-80	2477.03	6.90	6.90
70-80	706.07	2.00	2.00
80-90	87.97	0.20	0.20
90-110	37.83	0.10	0.10
90-120	79.21	0.20	0.20
90-130	136.23	0.40	0.40
90-150	270.12	0.80	0.80
90-180	385.84	1.10	1.10
110-180	348.00	1.00	1.00
0-180	35696.04	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1612.34
10-20	4710.78
20-30	7286.66
30-40	8433.58
40-50	6917.94
50-60	3783.9
60-70	1770.96
70-80	706.07
80-90	87.97
90-100	12.81
100-110	25.02
110-120	41.37
120-130	57.02
130-140	66.76
140-150	67.13
150-160	58.66
160-170	41.66
170-180	15.39

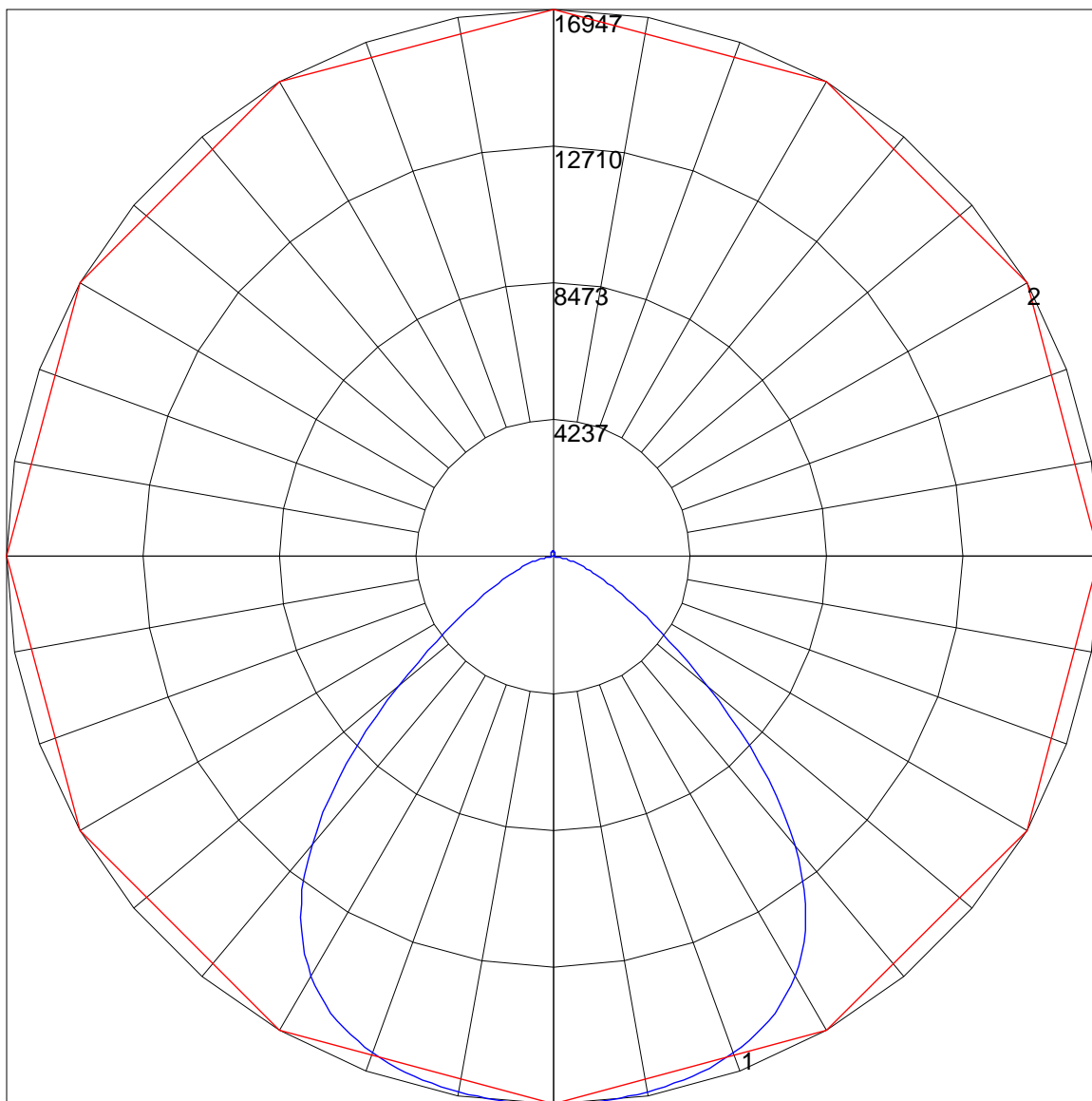
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	99
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	75	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	74	68	64	72	67	63	70	66	62	60
5	82	71	63	58	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	49	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	43	38	61	50	42	38	48	42	37	47	41	37	46	41	37	35
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 16946.76 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)