



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHTHOWBDWT30120-277V_P.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 09:16:42 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BL736LEDHTHOWBDWT30120-277V

[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: 58.6

[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	23396
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	19020	26490	20354
55	6248	7811	6440
65	2399	2533	2433
75	1137	1049	1165
85	460	317	426

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	15362.169	15362.169	15362.169	15362.169	15362.169	15362.169	15362.169	15362.169	15362.169	15362.169
2.5	14797.196	14879.379	14955.807	14795.434	14767.312	15285.417	14962.035	14749.964	14955.334	14842.696
5.0	14721.231	14873.357	14967.152	14921.002	14767.164	14715.150	14810.175	14799.478	14504.062	14499.821
7.5	15024.126	15102.944	14972.348	15118.186	15037.292	15024.608	14948.741	14843.434	14912.422	14819.306
10.0	15311.365	15338.494	15363.970	15340.039	15307.252	15181.438	15333.367	15143.072	15000.805	14937.849
12.5	15542.566	15559.136	15571.613	15615.224	15576.140	15694.407	15437.258	15362.809	15091.667	15143.977
15.0	15603.101	15657.487	15795.336	15694.436	15832.255	15939.679	15710.052	15613.985	15284.659	15236.827
17.5	15629.335	15732.881	15913.731	15997.233	15961.031	16040.696	15969.947	15731.917	15390.754	15241.383
20.0	15465.125	15534.517	15652.469	15895.684	16210.525	16209.964	16031.998	15777.476	15414.233	15237.368
22.5	14884.093	14983.792	15302.745	15696.975	16042.457	16116.454	15928.668	15482.217	15122.221	14837.382
25.0	13949.952	14172.129	14638.644	15121.552	15662.328	15775.292	15584.553	15068.199	14636.440	14347.478
27.5	12829.353	13003.639	13557.523	14211.135	14964.781	15181.831	14882.056	14302.696	13805.816	13415.404
30.0	11479.334	11709.974	12311.828	13223.573	13948.004	14255.976	13956.436	13240.419	12584.898	12246.520
32.5	9901.294	10161.493	10821.206	11829.146	12696.021	13014.040	12664.071	11940.525	11152.656	10774.810
35.0	8426.504	8619.024	9377.707	10353.146	11231.721	11483.133	11139.333	10345.845	9507.152	9198.363
37.5	6846.013	7024.609	7747.997	8703.254	9579.043	9809.880	9438.725	8582.537	7879.331	7533.189
40.0	5406.332	5600.308	6225.394	7063.556	7794.618	7997.500	7598.980	6892.615	6199.210	5930.371
42.5	4128.215	4309.231	4824.749	5523.576	6131.570	6267.017	5899.454	5290.053	4731.692	4483.822
45.0	3066.479	3230.423	3658.512	4186.527	4632.210	4718.743	4464.802	3931.198	3523.812	3294.649
47.5	2265.207	2369.551	2705.292	3113.307	3407.907	3478.440	3258.841	2858.520	2531.763	2416.310
50.0	1667.447	1749.385	1960.659	2256.263	2468.039	2533.761	2352.390	2077.716	1832.661	1761.842
52.5	1195.403	1262.216	1410.928	1604.540	1770.334	1794.924	1671.747	1473.392	1327.721	1270.600
55.0	894.781	921.969	1023.114	1150.916	1258.142	1255.407	1194.556	1065.662	960.728	927.066
57.5	652.215	675.978	741.700	833.615	896.798	890.422	856.513	779.613	707.870	669.386
60.0	492.758	509.623	553.008	601.716	634.158	655.649	612.432	573.416	530.337	523.419
62.5	375.839	388.040	404.109	450.023	475.695	474.101	463.690	429.644	394.338	383.307
65.0	289.877	288.647	310.314	334.973	353.689	357.684	347.441	319.082	305.739	296.036
67.5	219.885	230.079	239.811	259.195	268.484	265.493	252.701	237.833	227.776	225.739
70.0	177.956	178.143	190.197	192.716	206.020	202.301	203.137	191.860	180.407	175.073
72.5	138.036	143.113	140.269	154.941	156.535	153.248	158.070	152.018	141.686	142.503
75.0	107.738	108.260	114.547	114.636	119.349	123.197	120.943	115.925	111.251	111.418
77.5	88.137	85.815	85.618	88.599	94.671	96.816	92.417	92.949	89.249	89.947
80.0	68.477	65.406	69.943	71.320	68.044	71.655	69.293	71.547	68.152	67.758
82.5	53.175	47.685	50.341	48.492	52.733	50.145	52.368	52.359	51.936	50.460
85.0	30.297	30.327	29.097	27.296	28.585	26.765	28.595	30.042	28.900	28.438
87.5	7.242	7.173	6.268	6.672	6.376	5.835	6.494	6.731	5.747	6.721
90.0	0.089	0.039	0.000	0.000	0.000	0.010	0.000	0.000	0.010	0.000
92.5	0.049	0.000	0.010	0.000	0.000	0.000	0.010	0.000	0.000	0.000
95.0	0.049	0.000	0.049	0.010	0.010	0.000	0.000	0.000	0.000	0.000
97.5	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.049	0.039	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.315	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	15362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.169									
2.5	14685.32515053.61614647.18514902.41514682.73714676.86215040.37214711.14514987.46214704.700									
5.0	14799.46914667.03214487.59014674.53014676.31114665.76314665.21214697.59514603.17014599.677									
7.5	14782.13114573.38514750.89814700.20314791.46914836.97914667.30814781.30414830.00214648.129									
10.0	14936.10714970.48814989.31215014.78814994.22214854.52314832.11814925.52914884.42714845.372									
12.5	15035.15615116.17915109.96015113.06015051.89414979.77715041.92614906.14414993.22814907.305									
15.0	15197.11315287.98515364.72715263.46415312.79215266.40615214.14615060.30715034.05415070.088									
17.5	15375.96515320.76215345.32315523.02415364.37315419.59515181.18215067.86414968.02815074.290									
20.0	15186.42715351.08915450.35515488.02315544.96715143.01314981.08614737.82114608.97614779.631									
22.5	14904.27415082.29015271.99515493.83815348.47214961.54314609.18314351.20714212.09914240.990									
25.0	14392.61414678.72215020.27815164.03114988.75114549.71014047.81113564.04713443.13313679.519									
27.5	13508.11613955.28514337.45114480.82014306.81913765.74713154.73212595.05312502.01612634.305									
30.0	12256.08412797.68813341.05313660.90213463.47212808.25612059.34311511.22611264.81311533.081									
32.5	10901.71711441.17512075.19612492.44112331.41011629.54210760.28610205.17310020.78110205.891									
35.0	9366.923 9920.826 10697.82211068.70110977.23910251.0479453.603 8804.448 8540.294 8829.767									
37.5	7714.019 8229.753 9061.902 9514.867 9397.732 8781.039 7896.207 7337.698 7093.184 7298.997									
40.0	6067.531 6592.229 7265.689 7816.680 7783.962 7244.326 6443.085 5872.561 5678.438 5917.501									
42.5	4616.603 5076.555 5697.163 6151.870 6177.139 5717.896 5083.885 4562.454 4403.636 4608.141									
45.0	3420.315 3785.241 4293.704 4665.026 4730.000 4384.665 3890.785 3440.320 3329.964 3464.999									
47.5	2495.877 2758.428 3162.360 3467.104 3516.452 3305.640 2883.061 2591.630 2476.551 2602.867									
50.0	1823.391 2021.412 2300.710 2532.609 2562.671 2406.323 2116.063 1891.346 1800.730 1891.770									
52.5	1303.485 1425.117 1642.945 1792.553 1845.472 1718.950 1532.314 1368.990 1313.207 1366.215									
55.0	953.870 1047.084 1165.233 1253.833 1296.341 1226.025 1092.584 995.946 967.085 1005.796									
57.5	701.612 752.288 842.068 914.362 933.973 882.136 790.870 730.935 703.442 735.924									
60.0	518.775 559.620 611.123 660.057 668.175 634.769 582.400 544.063 531.212 554.071									
62.5	396.316 422.608 460.296 475.065 484.827 467.853 440.802 411.656 397.634 405.418									
65.0	301.330 323.628 331.027 356.759 370.309 354.968 327.849 318.058 307.579 312.794									
67.5	238.610 245.606 262.206 277.035 275.146 268.504 252.593 238.610 233.021 238.836									
70.0	183.044 188.889 200.303 206.138 207.624 198.965 193.504 185.494 186.133 190.473									
72.5	145.799 146.951 150.493 159.251 157.893 151.595 152.431 143.969 139.502 145.327									
75.0	114.370 113.868 117.283 122.292 124.870 124.250 116.378 109.883 113.878 116.407									
77.5	89.770 90.646 94.484 93.952 92.772 92.378 93.618 89.987 86.749 86.425									
80.0	70.818 69.057 70.671 73.436 72.147 72.255 70.002 71.980 69.136 68.683									

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CANDELA TABULATION - (Cont.)

82.5	50.774	48.836	53.175	54.553	50.784	48.364	51.070	49.781	49.279	49.387
85.0	29.727	28.733	30.652	27.316	26.391	28.595	28.684	29.510	30.484	32.049
87.5	6.396	6.780	6.288	7.498	5.884	6.780	6.524	7.823	6.455	5.894
90.0	0.000	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.059	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	15362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.16915362.169									
2.5	14877.97214796.55614850.69614928.54015095.54415078.56114678.56515040.63714844.12314939.354									
5.0	14507.55514616.84814766.40614707.31714624.76914805.76614803.53314744.86614656.71014937.888									
7.5	14811.49314820.49714790.83914737.99814818.40114743.78414800.07915023.74214768.80715046.984									
10.0	14972.06215020.46514923.44315112.35114882.02615080.81414874.57714897.20015145.96515154.191									
12.5	15142.76715056.83415257.26515068.66215147.41115024.85415125.21215197.42815223.54315324.275									
15.0	15207.29715253.00415369.95315344.50615443.78215285.38815327.72915251.64615593.05515564.125									
17.5	15225.38315370.79915541.88715600.66115525.51315374.16415323.85215445.70115595.87915802.371									
20.0	15027.40215245.10315583.97315681.70315658.28415485.98615275.76415381.35715516.40115993.228									
22.5	14590.31915065.81815401.20415540.98215495.87515270.73614980.60315067.00815286.78515796.782									
25.0	14014.53214585.33115037.16415189.08315119.61314831.55714462.81314466.13914758.24915199.248									
27.5	13163.04713846.00214427.62514586.97414354.36614035.43213566.94013530.59113864.96414503.442									

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CANDELA TABULATION - (Cont.)

30.0	12054.47312878.44513546.86613739.53313363.45812850.51912335.07012262.42112552.61313336.389
32.5	10859.54211724.90212422.85312576.26812189.86111443.04510912.22610715.50411221.74311958.720
35.0	9499.192 10355.45911020.03311223.86810661.8179917.362 9331.262 9165.242 9485.101 10275.843
37.5	7987.482 8877.756 9474.247 9562.129 8964.398 8240.961 7628.352 7478.253 7804.242 8524.186
40.0	6499.861 7260.897 7851.769 7823.164 7293.497 6531.645 6024.983 5874.785 6148.131 6786.973
42.5	5092.889 5781.699 6190.669 6127.762 5659.575 5017.642 4567.069 4400.940 4674.099 5240.617
45.0	3911.174 4419.754 4728.524 4652.519 4262.885 3756.942 3378.426 3272.568 3433.993 3886.987
47.5	2916.281 3314.388 3548.983 3475.941 3169.228 2755.092 2433.452 2402.013 2509.407 2856.572
50.0	2123.128 2411.440 2551.394 2473.501 2268.327 1991.380 1770.255 1700.086 1815.254 2041.938
52.5	1538.641 1723.643 1840.178 1800.858 1624.112 1443.439 1283.461 1238.069 1307.716 1474.603
55.0	1104.117 1228.632 1313.817 1275.864 1150.148 1031.045 933.442 909.570 944.945 1036.674
57.5	811.338 872.946 917.659 901.462 835.731 755.919 692.667 676.313 699.870 763.289
60.0	588.166 644.609 668.234 648.495 617.932 574.951 506.790 494.922 518.125 568.142
62.5	443.292 470.372 485.909 485.840 446.726 422.795 393.590 382.392 395.716 416.813
65.0	331.746 353.374 357.576 358.432 340.946 322.132 298.496 293.586 297.316 323.638
67.5	250.615 262.403 275.412 269.705 255.840 241.454 231.732 230.413 230.266 244.180
70.0	191.949 204.583 210.487 206.138 195.767 189.577 174.257 173.991 186.645 192.648
72.5	154.380 159.270 157.420 155.580 154.094 142.769 142.316 137.799 142.719 144.963
75.0	118.483 117.066 121.622 124.260 121.130 114.567 111.645 114.803 111.576 120.304
77.5	91.561 92.968 94.946 93.086 90.518 89.849 90.548 84.535 90.853 89.672
80.0	69.500 71.901 71.999 71.488 70.159 72.846 69.677 69.008 68.477 70.149
82.5	54.710 49.357 48.895 50.981 50.824 51.995 51.424 49.476 48.915 53.707
85.0	30.573 28.172 28.998 27.877 30.445 29.372 27.336 28.851 28.221 28.821
87.5	6.219 7.656 5.845 7.006 7.124 6.986 7.223 5.550 5.953 6.268
90.0	0.049 0.000 0.000 0.000 0.000 0.000 0.010 0.000 0.000 0.000
92.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
95.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
97.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
100.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
102.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
105.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
107.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
110.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
112.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
115.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
117.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
120.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
122.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.059 0.000
125.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
127.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
130.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
132.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
135.0	0.000 0.000 0.000 0.000 0.010 0.000 0.000 0.000 0.000 0.000
137.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
140.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
142.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
145.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
147.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
150.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
152.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
155.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
157.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
160.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
162.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
165.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
167.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

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CANDELA TABULATION - (Cont.)

170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	15362.169	15362.169	15362.169	15362.169	15362.169	15362.169	15362.169
2.5	15062.039	15081.365	14965.607	14695.785	15175.357	14731.878	14797.196
5.0	14776.384	14899.069	14778.834	14772.979	14758.298	14854.277	14721.821
7.5	15022.187	14971.659	15079.407	15059.697	15162.614	15125.734	15024.441
10.0	15297.304	15257.924	15356.974	15326.716	15304.320	15304.182	15311.818
12.5	15500.992	15581.404	15732.173	15620.922	15618.403	15501.307	15542.566
15.0	15639.864	15808.551	15916.545	15927.152	15825.397	15737.673	15603.101
17.5	15946.931	16181.064	16177.128	16060.307	15904.412	15846.012	15629.345
20.0	16158.510	16221.486	16349.416	16029.410	15728.158	15520.908	15465.125
22.5	16140.257	16204.512	16101.576	15770.086	15372.186	14986.192	14884.093
25.0	15751.892	16047.505	15740.488	15190.943	14637.975	14178.171	13949.952
27.5	15096.538	15298.534	15076.730	14359.424	13586.138	13035.363	12829.520
30.0	14091.992	14394.553	14086.088	13351.857	12354.327	11756.882	11479.334
32.5	12799.823	13165.527	12818.873	11956.614	10942.405	10265.531	9901.382
35.0	11157.488	11614.320	11328.094	10437.820	9401.235	8650.482	8426.504
37.5	9458.385	9838.731	9680.376	8813.846	7843.435	7086.532	6846.042
40.0	7540.786	8055.605	7860.743	7136.008	6230.659	5678.831	5406.342
42.5	5877.275	6254.393	6144.421	5592.663	4852.321	4303.554	4128.254
45.0	4407.011	4734.752	4670.458	4218.634	3660.982	3243.933	3066.479
47.5	3236.789	3471.601	3420.945	3147.147	2709.779	2388.050	2265.247
50.0	2308.189	2492.197	2491.931	2270.492	1984.453	1750.339	1667.486
52.5	1661.632	1771.200	1775.195	1630.645	1447.395	1266.811	1195.432
55.0	1164.948	1242.625	1250.940	1156.987	1038.041	919.833	894.781
57.5	845.364	890.914	887.135	834.275	748.549	675.103	652.215
60.0	609.253	643.280	648.613	612.619	557.308	517.840	492.777
62.5	453.801	479.346	475.656	447.887	407.947	385.767	375.839
65.0	340.218	351.268	364.946	337.610	315.008	287.997	289.936
67.5	267.638	272.607	265.464	259.195	246.118	230.197	219.914
70.0	196.013	199.388	196.249	193.632	185.169	172.377	177.956
72.5	155.098	163.875	155.128	151.339	143.959	140.781	138.095
75.0	120.353	122.144	121.977	118.267	114.646	108.427	107.758
77.5	92.437	96.904	90.607	90.912	85.460	85.746	88.186
80.0	70.622	72.265	71.310	69.766	67.758	68.014	68.477
82.5	53.736	49.102	52.900	48.511	50.391	51.837	53.225
85.0	29.156	27.709	30.356	29.215	28.782	31.016	30.347
87.5	6.494	6.278	5.737	6.189	5.235	6.130	7.242
90.0	0.000	0.010	0.000	0.000	0.039	0.059	0.089
92.5	0.000	0.000	0.000	0.049	0.010	0.049	0.049
95.0	0.000	0.000	0.000	0.000	0.049	0.000	0.049
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.049
100.0	0.000	0.000	0.000	0.000	0.000	0.049	0.049
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.010	0.010
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.039	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.049	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5799.71	N.A.	24.80
0-30	12495.65	N.A.	53.40
0-40	18668.26	N.A.	79.80
0-60	22889.66	N.A.	97.80
0-80	23362.54	N.A.	99.90
0-90	23395.58	N.A.	100.00
10-90	21972.61	N.A.	93.90
20-40	12868.55	N.A.	55.00
20-50	16034.55	N.A.	68.50
40-70	4565.75	N.A.	19.50
60-80	472.88	N.A.	2.00
70-80	128.53	N.A.	0.50
80-90	33.04	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	23395.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1422.97
10-20	4376.74
20-30	6695.94
30-40	6172.61
40-50	3166.00
50-60	1055.4
60-70	344.35
70-80	128.53
80-90	33.04
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	42	51	46	42	41

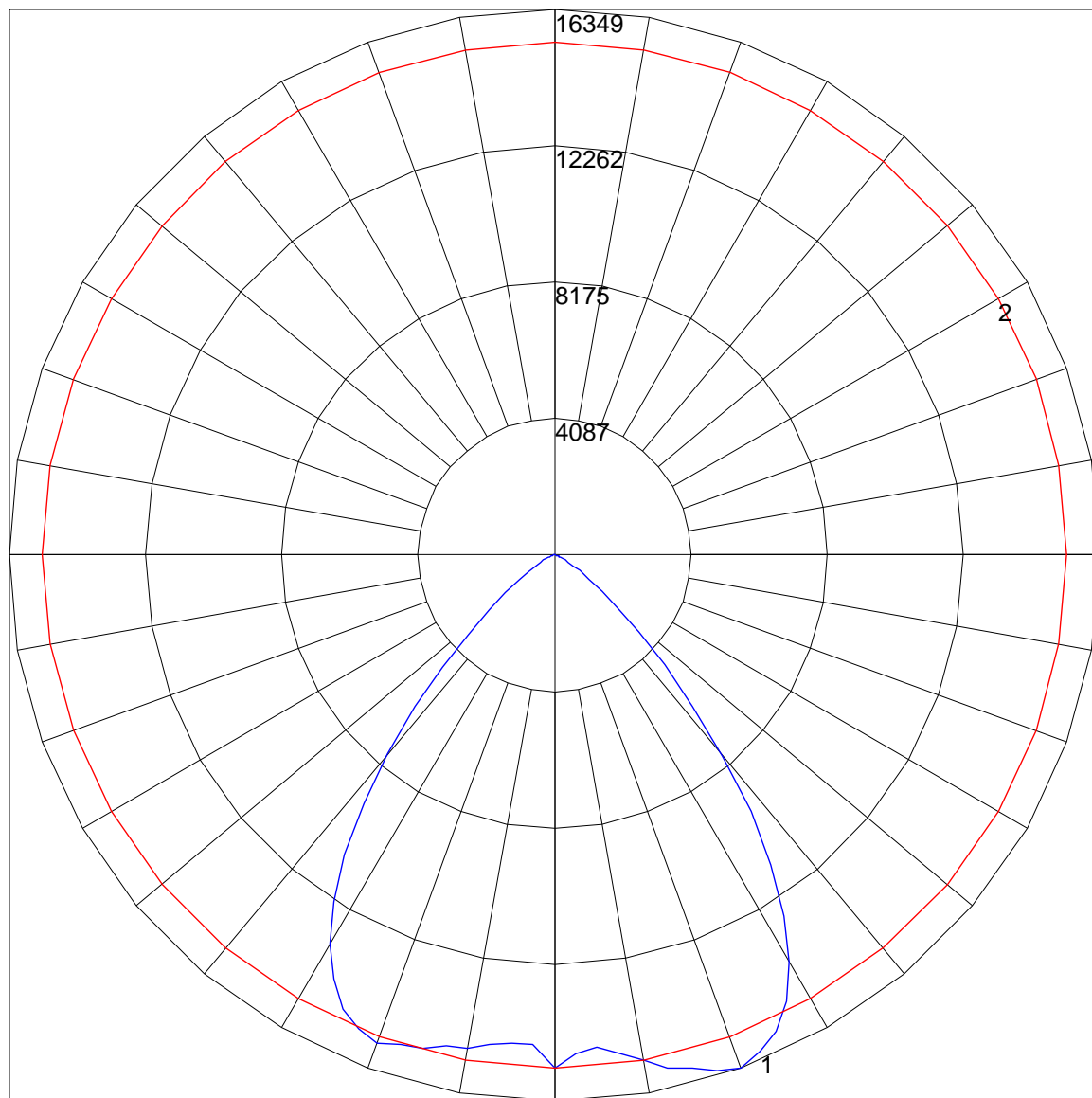
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.5	13.6	12.8	13.9	14.3	12.7	13.8	13.0	14.1	14.5
	3H	12.7	13.8	13.1	14.1	14.5	12.9	14.0	13.3	14.3	14.7
	4H	12.8	13.7	13.2	14.1	14.5	13.0	13.9	13.4	14.3	14.7
	6H	12.8	13.7	13.2	14.0	14.4	13.0	13.8	13.4	14.2	14.6
	8H	12.8	13.6	13.2	14.0	14.4	13.0	13.8	13.4	14.2	14.6
	12H	12.7	13.5	13.2	13.9	14.3	12.9	13.7	13.4	14.1	14.5
4H	2H	12.5	13.5	12.9	13.8	14.2	12.7	13.7	13.1	14.0	14.4
	3H	12.9	13.7	13.3	14.1	14.5	13.1	13.9	13.5	14.3	14.7
	4H	13.0	13.7	13.4	14.1	14.6	13.2	13.9	13.6	14.3	14.7
	6H	13.0	13.6	13.5	14.1	14.5	13.2	13.8	13.7	14.3	14.7
	8H	13.0	13.6	13.5	14.0	14.5	13.2	13.8	13.7	14.2	14.7
	12H	13.0	13.5	13.5	14.0	14.4	13.2	13.7	13.7	14.2	14.6
8H	4H	12.9	13.5	13.4	13.9	14.4	13.1	13.7	13.6	14.1	14.6
	6H	13.0	13.4	13.5	13.9	14.4	13.2	13.6	13.7	14.1	14.6
	8H	13.0	13.4	13.5	13.9	14.4	13.2	13.6	13.7	14.1	14.6
	12H	13.0	13.4	13.5	13.9	14.4	13.2	13.5	13.7	14.0	14.6
12H	4H	12.9	13.4	13.4	13.9	14.3	13.1	13.6	13.6	14.0	14.5
	6H	13.0	13.4	13.5	13.8	14.4	13.2	13.5	13.7	14.0	14.6
	8H	13.0	13.3	13.5	13.8	14.4	13.2	13.5	13.7	14.0	14.6

Maximum UGR = 14.7

POLAR GRAPH



Maximum Candela = 16349.416 Located At Horizontal Angle = 320, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)