



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHTHOMBDWT30120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri May 12 09:14:04 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BL736LEDHTHOMBDWT30120-277V

[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	23397
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)	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 : BL736LEDHTHOMBDWT30120-277V\_P.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5395	5226	5304
55	2065	1831	2043
65	1078	919	1118
75	693	541	712
85	337	233	327

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**CANDELA TABULATION**

	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0.0</b>	49614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.334									
<b>2.5</b>	47742.97347754.25948204.36147577.33647931.32047706.12247334.72147304.32547230.29947124.116									
<b>5.0</b>	46201.04546205.65046052.46146105.93145617.12945334.20044924.00044837.23144793.09845256.434									
<b>7.5</b>	44728.78444601.31744087.52143875.48943777.97442763.64742762.77242130.13842057.61742093.937									
<b>10.0</b>	41870.71741943.99541533.99241017.34240096.07239653.25339004.63938787.32338288.85838224.849									
<b>12.5</b>	38470.93738351.78537834.51637147.19236484.94035565.28435087.45334433.00533858.39833737.327									
<b>15.0</b>	34614.87734287.42233690.45932850.06431994.57431173.34730394.03929721.77029149.74129129.372									
<b>17.5</b>	29921.22729650.15429105.05828490.23527510.70226684.94925750.66125052.58224755.80724535.627									
<b>20.0</b>	24828.11224817.68124195.37023590.24922821.90321955.34321308.76720669.19620327.18720312.585									
<b>22.5</b>	20123.66619911.36819484.10618881.85818332.94417727.36117152.33116704.79816421.24816322.533									
<b>25.0</b>	15657.29015452.39215149.85114756.92014328.87113917.96213506.77813201.21612925.15512853.540									
<b>27.5</b>	11623.13611515.59511316.53211177.60110888.28510632.12010361.79610027.8469827.238 9711.706									
<b>30.0</b>	8264.459 8287.514 8257.463 8151.250 8067.265 7903.734 7680.051 7419.931 7224.951 7153.237									
<b>32.5</b>	5788.528 5779.514 5843.189 5827.012 5800.916 5686.290 5531.586 5338.043 5191.446 5118.316									
<b>35.0</b>	3953.191 3995.129 4018.154 4079.861 4088.746 4031.163 3888.709 3738.452 3650.266 3568.279									
<b>37.5</b>	2679.462 2669.061 2719.274 2806.289 2830.909 2820.164 2708.116 2594.660 2542.459 2476.413									
<b>40.0</b>	1791.008 1805.099 1882.687 1919.833 1963.720 1938.214 1855.047 1795.780 1732.578 1685.749									
<b>42.5</b>	1232.893 1244.140 1267.914 1325.655 1351.563 1330.703 1278.403 1238.541 1196.888 1183.083									
<b>45.0</b>	869.856 892.301 901.846 928.099 918.603 926.062 895.411 876.872 867.219 858.491									
<b>47.5</b>	655.039 635.684 652.254 646.586 661.897 673.607 653.652 639.521 636.304 627.713									
<b>50.0</b>	488.989 489.324 484.217 483.203 502.007 491.085 492.197 484.295 480.369 481.629									
<b>52.5</b>	371.076 373.280 372.080 370.624 380.956 381.526 381.339 378.427 371.726 362.899									
<b>55.0</b>	295.653 289.670 297.758 288.509 292.956 296.223 283.677 293.262 296.056 294.127									
<b>57.5</b>	235.009 237.174 231.368 233.306 229.980 229.006 231.978 232.096 234.162 238.640									
<b>60.0</b>	191.388 185.543 186.675 189.764 190.296 186.645 189.627 186.655 193.474 193.632									
<b>62.5</b>	155.078 157.745 152.441 154.950 152.736 155.757 159.064 155.147 157.420 161.091									
<b>65.0</b>	130.272 127.084 132.958 128.107 127.093 131.020 129.514 131.364 134.070 136.018									
<b>67.5</b>	114.705 113.239 110.277 104.373 105.987 108.329 111.418 112.452 111.566 111.979									
<b>70.0</b>	94.828 96.363 93.165 90.203 86.415 90.400 90.804 97.711 92.535 94.267									
<b>72.5</b>	78.799 77.421 77.795 75.817 78.533 77.392 77.244 75.394 77.520 78.139									
<b>75.0</b>	65.692 68.044 65.820 66.085 62.268 62.769 63.006 66.440 66.912 68.093									
<b>77.5</b>	54.573 54.081 53.225 49.426 53.894 54.061 54.966 53.667 55.685 59.227									
<b>80.0</b>	45.254 46.297 41.682 44.802 44.073 41.535 43.129 44.378 44.654 44.241									
<b>82.5</b>	33.486 33.161 35.463 31.744 32.610 34.784 32.875 36.920 34.902 35.493									
<b>85.0</b>	22.219 20.871 23.291 18.539 20.861 19.788 20.448 22.780 21.333 21.835									
<b>87.5</b>	5.333 4.133 4.300 4.438 4.625 4.182 5.215 4.881 4.822 5.087									
<b>90.0</b>	0.108 0.059 0.049 0.000 0.079 0.010 0.049 0.000 0.000 0.000									
<b>92.5</b>	0.000 0.049 0.000 0.039 0.000 0.000 0.000 0.000 0.000 0.000									
<b>95.0</b>	0.049 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>97.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>100.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>102.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>105.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>107.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>110.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>112.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>115.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>117.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>120.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>122.5</b>	0.000 0.000 0.000 0.000 0.000 0.010 0.000 0.000 0.000 0.000									
<b>125.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>127.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>130.0</b>	0.000 0.000 0.000 0.000 0.010 0.000 0.000 0.000 0.000 0.000									
<b>132.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.010									

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.020	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	0.010	0.000	0.000	0.000
145.0	0.000	0.010	0.010	0.000	0.000	0.020	0.010	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.039	0.108	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.069	0.128	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.049	0.128	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.000	0.000	0.000
157.5	0.000	0.000	0.020	0.000	0.000	0.020	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	0.010	0.000	0.010	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	0.128	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.  
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	49614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.334									
2.5	47407.37047240.03147719.63247215.65748033.19447801.18647569.77948025.62747365.71748017.499									
5.0	45023.15745145.55745175.26445428.17245521.08145961.36246256.80846413.35346428.37846346.332									
7.5	42073.07642515.10942481.10243015.03043335.18443689.14944203.50544390.09144575.12344641.444									
10.0	38026.36638772.23839159.54139763.19540346.22540961.23541523.19741932.64942011.25142028.786									
12.5	33896.73534292.24434962.85935529.60436477.10737302.38837964.63038473.04338631.24138617.288									
15.0	29320.66229627.29630357.47331226.07032077.25932932.78833737.51334148.16634423.21434466.490									
17.5	24721.24925193.82525913.00126597.98327387.88928493.46229224.52529865.57230073.38329973.723									
20.0	20429.72020737.69221363.34921928.35222753.35723643.86824354.57124936.26325200.76225049.157									
22.5	16395.84116797.06717163.88317779.33618410.37519078.14719693.50120204.00020429.11020337.696									
25.0	12907.44313208.28213457.90313907.48214389.94814890.25215366.59715648.67115773.50115834.440									
27.5	9853.786 10063.61410370.06110688.02110985.61211249.92511536.75111702.18111827.15911823.941									
30.0	7247.327 7414.539 7697.714 7910.042 8086.552 8252.936 8357.102 8345.708 8420.974 8438.794									
32.5	5166.345 5307.637 5530.051 5745.911 5829.767 5867.100 5852.616 5823.007 5836.645 5895.174									
35.0	3644.126 3751.057 3923.956 4103.910 4156.357 4162.891 4056.127 3987.001 3968.344 4040.166									
37.5	2521.559 2590.075 2716.814 2840.434 2887.036 2832.897 2764.597 2702.910 2670.438 2755.141									
40.0	1718.143 1784.819 1868.596 1953.289 1973.727 1935.361 1868.222 1821.886 1792.405 1835.996									
42.5	1194.202 1223.919 1285.370 1325.605 1354.043 1317.045 1301.891 1255.328 1242.113 1257.090									
45.0	862.082 864.907 900.232 950.957 942.702 913.290 904.267 894.200 897.142 898.638									
47.5	626.021 631.266 654.409 678.399 669.248 670.488 653.671 660.618 649.046 643.497									
50.0	483.370 484.167 490.288 498.248 493.811 491.892 488.861 480.950 500.000 491.951									
52.5	363.244 386.053 379.214 379.794 383.111 376.232 382.904 382.648 375.376 369.374									
55.0	300.307 294.619 296.528 296.725 300.169 293.055 295.879 295.830 294.216 300.346									
57.5	237.557 234.340 231.122 239.122 235.579 226.015 235.461 234.684 232.076 239.594									
60.0	193.169 185.248 186.360 189.804 188.485 192.775 192.766 198.030 187.737 187.737									
62.5	159.447 157.460 154.360 156.722 153.888 157.233 156.102 159.821 160.097 163.364									
65.0	132.348 132.082 127.497 128.589 133.391 126.306 132.466 132.505 131.797 133.135									
67.5	114.331 113.170 104.186 106.774 105.524 107.709 111.782 110.818 112.048 113.081									
70.0	94.051 93.490 90.764 89.072 90.685 89.790 94.139 96.137 98.715 95.901									
72.5	81.160 78.307 78.681 81.534 72.668 76.673 77.874 76.959 78.690 78.179									
75.0	64.521 63.793 63.822 64.354 67.709 65.249 67.453 68.270 66.499 68.319									
77.5	56.482 52.752 52.988 49.505 53.589 53.785 54.415 53.648 53.136 52.703									
80.0	47.016 42.164 43.011 43.080 43.335 39.744 44.841 44.300 45.943 45.126									

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**CANDELA TABULATION - (Cont.)**

82.5	35.040	34.430	34.794	32.295	32.216	32.078	34.361	34.164	36.615	33.072
85.0	20.103	20.251	20.871	20.871	22.750	20.920	20.831	22.347	21.372	21.038
87.5	4.635	3.847	4.152	4.093	4.162	5.205	5.481	4.999	4.418	3.424
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.010	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	0.000	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	0.010	0.000	0.000	0.000	0.000
132.5	0.000	0.010	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	0.000
137.5	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.010	0.010	0.000	0.000	0.000	0.010	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	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
155.0	0.020	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
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. 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	49614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.334									
2.5	47889.96347592.75547904.86147493.64747914.52347851.15447256.08047332.66548071.52147639.879									
5.0	46198.71346187.81046032.22045767.18045559.50645519.93045535.36945490.87245410.06645543.457									
7.5	44529.94744055.18743930.61243581.96143243.65242997.35742841.64942843.60742746.74242982.627									
10.0	41858.60341527.33040852.61140444.17239828.72039406.22039150.80339012.88539097.35239591.143									
12.5	38296.87837887.09137013.71236108.08835741.32135176.39734543.16434496.09934556.43834989.043									
15.0	33932.12933502.18032543.98031926.63931063.57230360.14029828.31829754.57729897.61130434.727									
17.5	29662.88728690.86327951.07227138.45526383.53025755.83725148.59125074.63325199.44425660.054									
20.0	24694.27824048.61623145.66822416.91821782.68121134.06720693.45220452.38220637.28521033.050									
22.5	19885.39119501.50318641.54617971.35317361.25416875.28616546.55116337.17516531.85016883.600									
25.0	15633.32015127.45614616.78914162.64413626.30413228.86712878.67112729.80212841.66313085.646									
27.5	11632.11011362.03211127.13110680.18910360.5569967.133 9720.749 9523.999 9619.693 9982.208									

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BL736LEDHTHOMBDWT30120-277V\_P.IES**

**CANDELA TABULATION - (Cont.)**

30.0	8469.210	8393.186	8158.384	7911.872	7590.606	7339.253	7062.936	6938.657	7035.285	7262.816
32.5	5950.711	5975.193	5862.800	5747.259	5525.780	5189.675	4974.799	4901.668	4984.354	5164.131
35.0	4085.952	4128.579	4158.118	4050.853	3853.482	3645.366	3475.459	3471.621	3502.932	3621.297
37.5	2810.648	2881.762	2862.495	2796.105	2664.830	2509.141	2414.146	2365.634	2428.807	2529.106
40.0	1877.413	1937.781	1961.594	1925.973	1825.271	1740.844	1672.652	1645.553	1667.201	1720.800
42.5	1268.720	1325.851	1347.745	1315.136	1266.998	1215.457	1202.674	1168.293	1180.347	1224.076
45.0	915.366	921.477	954.362	931.523	899.337	877.423	841.979	854.102	842.855	854.151
47.5	666.916	676.579	682.050	664.033	655.187	643.713	623.689	626.956	625.066	639.826
50.0	505.008	491.961	506.268	494.549	484.876	485.171	487.720	480.891	485.338	485.269
52.5	383.583	377.905	383.799	379.253	376.547	382.520	368.656	372.021	374.963	380.759
55.0	298.644	292.484	287.682	299.412	297.355	288.824	295.613	291.451	294.590	289.335
57.5	234.694	235.973	229.892	235.540	232.706	236.878	238.039	240.873	232.539	231.939
60.0	196.446	187.511	186.192	194.360	190.926	188.269	187.058	190.119	191.211	191.664
62.5	159.880	155.748	150.582	155.088	156.869	153.868	162.567	160.313	156.623	154.911
65.0	133.608	127.910	128.107	127.477	128.815	132.683	130.350	133.962	128.176	132.397
67.5	111.113	108.447	104.481	106.380	107.964	106.636	111.664	110.316	109.440	110.001
70.0	93.077	89.406	90.066	82.597	88.963	89.731	92.526	96.963	94.061	92.614
72.5	77.579	76.467	74.882	71.871	75.315	75.512	80.708	78.130	77.047	73.062
75.0	65.288	61.480	61.972	62.582	64.088	65.397	66.440	63.291	65.741	66.292
77.5	54.405	48.728	51.867	51.217	50.902	54.878	55.439	53.608	53.825	55.576
80.0	43.877	43.562	41.525	43.906	43.020	40.521	44.211	46.760	45.559	44.398
82.5	34.716	29.835	32.383	30.720	34.105	33.112	34.233	34.086	33.476	32.324
85.0	18.873	20.595	18.420	19.877	20.270	19.375	21.343	19.837	20.310	20.379
87.5	4.497	4.831	3.720	4.605	4.812	4.851	3.749	5.018	4.458	4.408
90.0	0.010	0.010	0.010	0.000	0.000	0.000	0.000	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	0.000	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	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.039	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	0.010	0.000	0.000	0.000	0.000	0.089
147.5	0.000	0.010	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	0.059	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	0.010	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.030	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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BL736LEDHTHOMBDWT30120-277V\_P.IES**

**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
<b>0.0</b>	49614.33449614.33449614.33449614.33449614.33449614.33449614.33449614.334						
<b>2.5</b>	48018.88648266.74647598.57147539.48247999.88547757.69347742.973						
<b>5.0</b>	45990.93145667.35345855.22846507.17746703.58346231.56846202.098						
<b>7.5</b>	43312.64143498.67643996.14744260.08544503.90144452.38844728.784						
<b>10.0</b>	39821.49740321.96041013.98741348.39041761.30641856.48841870.717						
<b>12.5</b>	35662.79836215.61937090.84837754.16238353.11338306.99338471.075						
<b>15.0</b>	30892.47431838.88532612.69333550.58333931.42134429.71834614.877						
<b>17.5</b>	26315.81127110.32328082.49528845.16429530.24429728.20529921.227						
<b>20.0</b>	21683.30722414.06423066.66323825.14024454.35924961.31624828.112						
<b>22.5</b>	17394.56217949.07618660.44919300.33419749.79620126.10720123.735						
<b>25.0</b>	13560.95713964.67314494.11415025.22815376.30915523.45715657.290						
<b>27.5</b>	10271.91710634.76710975.54611255.76011504.12111537.21311623.136						
<b>30.0</b>	7632.623 7829.600 8069.804 8253.025 8279.849 8377.845 8264.459						
<b>32.5</b>	5426.396 5644.726 5843.032 5833.172 5854.475 5814.466 5788.528						
<b>35.0</b>	3848.965 3967.252 4100.919 4099.059 4065.003 3962.342 3953.191						
<b>37.5</b>	2639.826 2769.950 2826.186 2856.641 2762.255 2683.506 2679.462						
<b>40.0</b>	1812.125 1897.575 1955.228 1918.800 1866.963 1825.733 1791.008						
<b>42.5</b>	1279.554 1313.620 1324.956 1319.623 1286.590 1254.708 1232.893						
<b>45.0</b>	890.422 910.899 940.232 928.709 894.623 867.642 869.856						
<b>47.5</b>	638.636 668.333 680.387 656.377 652.736 646.409 655.039						
<b>50.0</b>	471.946 492.394 493.584 494.509 484.925 482.022 489.058						
<b>52.5</b>	369.413 375.642 382.176 371.696 372.188 370.407 371.135						
<b>55.0</b>	291.126 294.521 296.263 292.346 291.303 293.881 295.741						
<b>57.5</b>	231.575 237.252 229.488 232.677 231.289 233.159 235.048						
<b>60.0</b>	187.157 189.469 187.728 183.929 187.816 192.500 191.388						
<b>62.5</b>	153.898 151.979 152.254 149.922 154.783 155.718 155.078						
<b>65.0</b>	129.986 128.707 128.579 130.567 130.724 127.999 130.321						
<b>67.5</b>	109.155 102.464 105.544 109.726 108.506 107.502 114.705						
<b>70.0</b>	93.086 90.518 89.879 89.652 93.342 96.265 94.828						
<b>72.5</b>	74.508 73.564 74.518 74.774 79.901 78.198 78.799						
<b>75.0</b>	64.787 63.812 61.638 65.288 65.475 63.832 65.692						
<b>77.5</b>	52.457 51.768 50.922 53.116 54.563 52.349 54.573						
<b>80.0</b>	40.846 43.198 42.863 41.790 45.786 48.708 45.353						
<b>82.5</b>	32.216 32.669 34.105 33.062 33.564 36.005 33.486						
<b>85.0</b>	19.444 19.267 20.536 19.641 19.877 20.940 22.219						
<b>87.5</b>	4.359 4.930 4.526 5.914 4.900 4.300 5.333						
<b>90.0</b>	0.000 0.049 0.059 0.000 0.000 0.000 0.108						
<b>92.5</b>	0.000 0.000 0.000 0.000 0.059 0.000 0.000						
<b>95.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.049						
<b>97.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000						
<b>100.0</b>	0.000 0.000 0.010 0.000 0.000 0.000 0.000						
<b>102.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000						
<b>105.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000						
<b>107.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000						
<b>110.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000						
<b>112.5</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000						
<b>115.0</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000						

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : BL736LEDHTHOMBDWT30120-277V\_P.IES

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	0.010	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	0.000	0.000
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	0.010	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	0.020	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.157	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	0.039	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.010	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



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BL736LEDHTHOMBDWT30120-277V\_P.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	12962.96	N.A.	55.40
0-30	19533.6	N.A.	83.50
0-40	22138.92	N.A.	94.60
0-60	23172.45	N.A.	99.00
0-80	23374.6	N.A.	99.90
0-90	23396.57	N.A.	100.00
10-90	19188.65	N.A.	82.00
20-40	9175.96	N.A.	39.20
20-50	9933.06	N.A.	42.50
40-70	1166.18	N.A.	5.00
60-80	202.14	N.A.	0.90
70-80	69.50	N.A.	0.30
80-90	21.97	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	23396.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	4207.91
10-20	8755.05
20-30	6570.64
30-40	2605.31
40-50	757.10
50-60	276.43
60-70	132.64
70-80	69.50
80-90	21.97
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

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : BL736LEDHTHOMBDWT30120-277V\_P.IES

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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BL736LEDHTHOMBDWT30120-277V\_P.IES**

**UGR TABLE - CORRECTED**

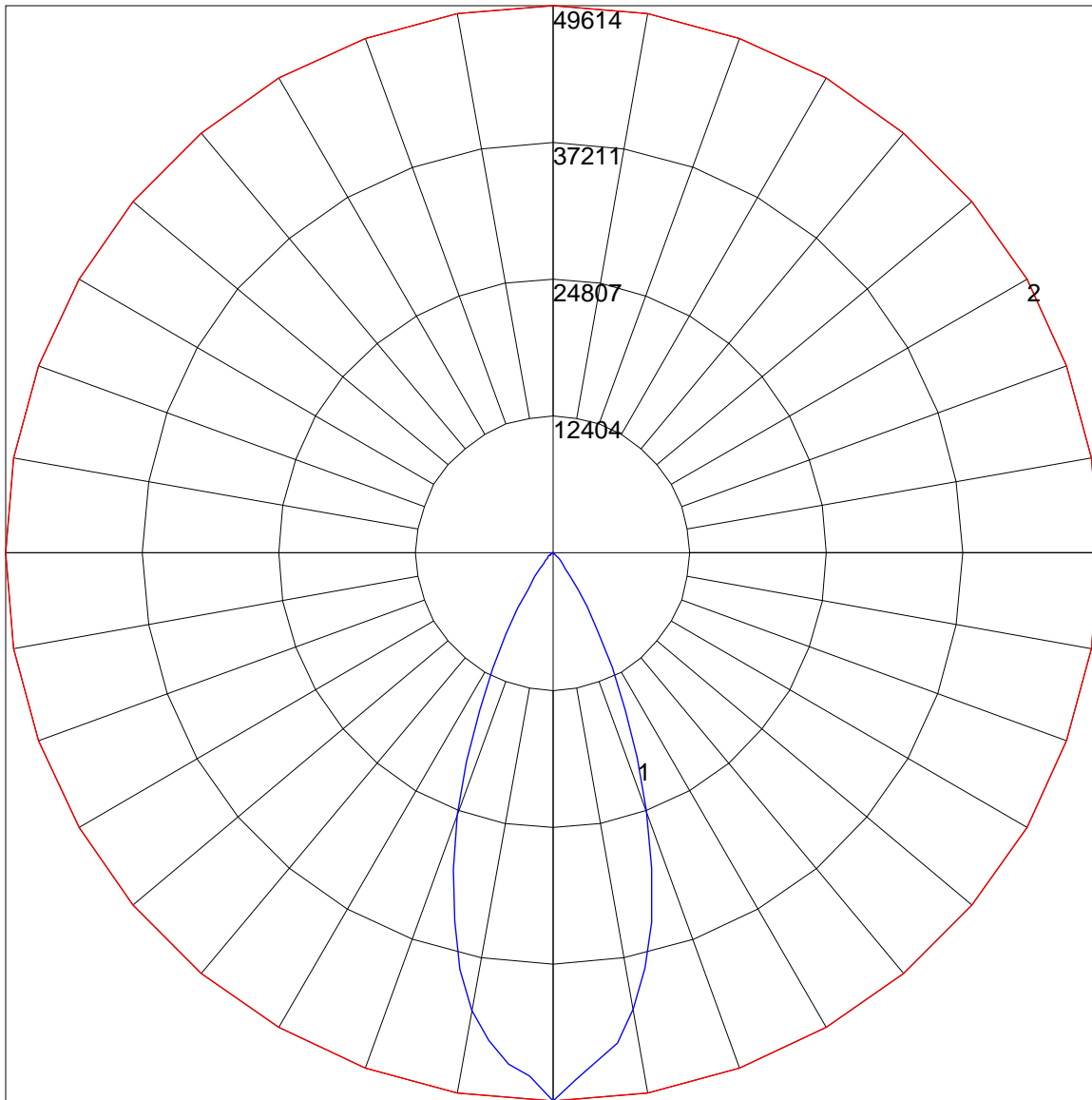
Reflectances

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	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	3H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	4H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	6H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	8H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	12H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
4H	2H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	3H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	4H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	6H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	8H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	12H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
8H	4H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	6H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	8H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	12H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
12H	4H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	6H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	8H	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0

Maximum UGR = 11.0

POLAR GRAPH



Maximum Candela = 49614.334 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)