



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHTLOMBDWT30120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Thu Feb 16 11:04:40 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BL736LEDHTLOWT30MBD120-277V

[LAMP] LED 0.1885W Nichia Warm White LED (65mA)

[LAMPCAT] NFSL757DT-V1

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 256

[OTHER] Lumens per lamp: 74.5

[OTHER] Input watts: 150

[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	14835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	150
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.60
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3518	3424	3320
55	1312	1161	1293
65	735	587	687
75	451	357	446
85	254	166	203

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	31019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.435									
2.5	29314.63429318.40529357.83329587.84629732.72129599.97429630.57329542.97929673.71229817.733									
5.0	28804.50528724.74728622.58928363.14528330.50328346.00928409.53528406.81528279.87128221.109									
7.5	27546.30827525.87227285.07627315.53827154.72526917.76926585.53926597.99026590.65526595.692									
10.0	25849.43125889.42825715.70325557.88525197.54024992.27324689.68924510.11124306.92524411.332									
12.5	23929.28723676.23623536.38923271.85822924.99622566.86122190.97121921.64721705.90221605.895									
15.0	21400.21521274.35221028.22420610.80520194.76119808.46219400.66719023.96218902.65518919.045									
17.5	18694.15718519.88218314.49617873.05817440.67316967.09416576.77916257.90416073.32716017.088									
20.0	15758.49815585.82315398.56515026.45614582.66114100.59713742.19613423.30213243.53713260.820									
22.5	12802.05912714.57312567.54812140.62311792.64211418.01811063.89910845.89510625.96710641.247									
25.0	10042.09910002.1129788.232 9596.546 9253.464 8985.015 8725.031 8550.235 8343.573 8356.368									
27.5	7457.347 7471.930 7393.989 7271.857 7055.100 6871.064 6695.109 6521.609 6366.581 6300.345									
30.0	5372.394 5392.064 5366.836 5354.326 5293.029 5076.145 4956.969 4783.715 4637.927 4600.532									
32.5	3740.261 3780.710 3811.554 3842.969 3798.690 3698.153 3582.149 3422.309 3328.941 3302.535									
35.0	2544.431 2552.081 2637.623 2679.554 2689.227 2620.909 2532.480 2401.844 2300.895 2298.135									
37.5	1723.989 1729.528 1789.017 1837.793 1880.353 1824.477 1764.202 1654.071 1606.964 1586.117									
40.0	1155.333 1165.644 1211.474 1255.644 1274.665 1258.187 1192.757 1129.123 1099.329 1073.503									
42.5	807.341 817.633 827.394 860.517 882.906 861.077 819.842 789.626 748.677 763.093									
45.0	567.115 577.288 586.391 593.432 610.470 598.058 587.668 557.963 549.910 537.488									
47.5	418.067 424.617 431.069 429.085 434.839 431.648 422.181 417.291 398.741 406.185									
50.0	315.507 313.199 312.963 319.936 311.795 319.720 310.744 308.053 300.335 310.096									
52.5	240.659 239.431 246.138 246.443 236.574 237.929 238.380 238.587 238.263 231.497									
55.0	187.896 191.225 191.706 188.024 190.773 182.956 187.533 187.297 180.010 186.069									
57.5	149.716 153.055 149.618 147.879 150.511 149.176 150.452 143.971 153.113 147.379									
60.0	121.905 119.185 119.382 119.765 115.454 122.288 118.311 119.706 120.187 121.414									
62.5	101.097 100.154 103.061 94.851 99.280 97.994 99.545 95.470 98.770 102.953									
65.0	88.802 84.629 83.028 82.783 82.085 82.802 82.753 80.514 83.873 83.578									
67.5	73.552 69.702 71.568 71.892 67.738 69.859 68.789 67.571 69.202 70.252									
70.0	59.814 60.344 60.874 57.084 58.144 55.768 56.180 58.350 58.007 59.175									
72.5	51.280 51.329 51.820 51.133 47.814 47.863 47.784 49.237 50.760 49.512									
75.0	42.717 43.021 43.080 41.931 41.833 40.753 41.107 41.391 39.948 42.658									
77.5	37.041 35.097 36.540 36.334 32.799 34.606 33.506 34.350 31.974 34.606									
80.0	31.748 31.355 31.699 29.823 29.352 27.359 29.755 28.537 27.800 29.234									
82.5	26.553 25.532 23.990 22.998 24.295 20.298 22.733 21.712 22.635 22.566									
85.0	16.753 15.074 15.280 16.468 14.769 14.249 13.984 14.612 12.629 13.571									
87.5	3.113 3.368 2.887 3.309 3.319 3.840 3.771 3.309 2.730 3.368									
90.0	0.020 0.029 0.010 0.000 0.029 0.000 0.010 0.000 0.000 0.010									
92.5	0.010 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 0.029 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 0.010 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	0.020 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 0.010 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									

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CANDELA TABULATION - (Cont.)

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	0.000	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>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	31019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.435									
2.5	29610.95329584.16429847.21229632.25229901.09529906.83929940.24729431.10029983.19029847.134									
5.0	28237.22328357.92128585.16528565.02528726.83928750.74028907.41929046.15629006.46329113.825									
7.5	26700.78626963.77526954.27027227.85527552.94627746.72427863.34627918.04428089.37327909.147									
10.0	24539.72824819.21525055.58325396.50325711.31326148.54926315.21426439.71226477.03726442.481									
12.5	21735.79422083.61822562.23522885.66723375.19423700.39324070.20424386.92924482.81124263.010									
15.0	19128.41719319.50519792.19020274.84320661.94821131.12821586.28521755.43421883.20221701.129									
17.5	16213.03616475.89816844.14817413.13817759.01818204.23718618.63118816.34718897.60818809.405									
20.0	13411.73413580.90313994.89414435.38014810.48515156.58115477.79315739.53515759.92115630.042									
22.5	10781.03411025.23811300.55211676.18611920.32112196.66612420.49312596.34012668.70312552.238									
25.0	8454.637 8629.423 8931.869 9125.097 9300.198 9477.105 9615.233 9708.455 9717.155 9632.143									
27.5	6424.097 6594.916 6759.862 6908.655 7049.366 7161.009 7161.097 7171.114 7198.954 7150.040									
30.0	4673.525 4824.615 5014.897 5122.770 5163.474 5179.333 5170.053 5125.902 5106.822 5096.914									
32.5	3347.255 3485.766 3617.128 3660.621 3708.935 3684.916 3638.663 3584.585 3562.244 3530.850									
35.0	2324.639 2417.988 2529.936 2594.562 2624.366 2552.375 2502.273 2430.882 2402.983 2426.414									
37.5	1586.018 1660.012 1741.125 1788.978 1812.909 1773.138 1697.721 1653.698 1640.902 1655.583									
40.0	1096.874 1118.989 1182.289 1223.857 1246.678 1226.498 1160.400 1123.987 1112.380 1113.185									
42.5	763.259 799.269 816.062 838.068 851.698 835.201 804.798 766.854 763.780 767.747									
45.0	547.927 552.689 569.030 588.208 594.856 583.210 561.920 556.087 542.201 560.742									
47.5	400.204 412.086 417.350 416.397 427.376 422.476 400.941 400.322 406.607 404.996									
50.0	300.846 306.767 303.134 315.134 322.823 308.957 302.240 305.530 307.071 306.364									
52.5	238.253 237.212 234.070 237.565 237.074 236.053 232.744 231.320 235.729 230.809									
55.0	184.145 183.575 184.557 183.663 185.696 188.583 181.906 183.879 181.837 178.724									
57.5	147.820 146.053 147.928 145.267 145.994 153.693 149.716 146.789 144.747 145.788									
60.0	121.915 120.550 122.377 118.203 115.876 118.626 115.257 115.660 120.973 119.647									
62.5	98.868 98.563 98.573 93.693 94.940 97.365 96.187 99.457 99.801 98.259									
65.0	82.292 83.578 82.026 81.447 80.406 79.493 83.333 82.969 85.257 82.508									
67.5	67.905 68.288 69.977 69.398 67.493 69.585 69.791 70.360 68.318 72.187									
70.0	59.931 58.134 59.774 57.614 57.437 57.663 60.432 60.197 59.823 59.421									
72.5	53.558 50.897 47.931 50.396 45.928 49.326 50.544 52.400 51.143 48.226									
75.0	42.835 40.645 41.735 40.684 39.967 43.424 41.990 43.267 45.319 43.061									
77.5	34.223 31.944 34.419 33.830 35.774 36.138 34.566 36.422 37.846 37.532									
80.0	29.980 27.761 27.732 27.467 30.648 29.057 29.774 30.884 31.120 31.326									

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CANDELA TABULATION - (Cont.)

82.5	22.733	22.930	22.350	23.489	24.206	23.165	25.984	24.786	26.602	25.002
85.0	13.630	13.856	15.093	14.445	16.115	15.280	15.859	17.028	16.625	16.507
87.5	2.985	3.329	3.300	3.545	3.290	3.309	3.594	3.339	2.818	3.133
90.0	0.000	0.010	0.000	0.000	0.000	0.000	0.039	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	0.010	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	0.000	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
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	31019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.43531019.435									
2.5	29884.68529669.30329804.88829496.56029507.20529750.83929704.16429656.55729742.44329618.171									
5.0	28716.92028798.45628669.14628428.74328240.05128266.77228108.01228107.19728157.86828060.326									
7.5	27884.10627709.09427426.72027239.60926720.16126514.03926490.07826418.62826496.98226435.027									
10.0	26300.88625905.72025589.84025249.63624886.69824516.20924356.32024269.05924295.64224284.457									
12.5	24030.27623613.60423176.17222814.66822339.53721906.97621612.26821611.83621487.09321663.018									
15.0	21492.36620998.29220497.40420031.67119482.81119143.01918852.74018656.68418731.64019032.505									
17.5	18561.37118112.24417627.05717128.99616772.61916279.94916032.16115856.73715898.30516109.661									
20.0	15472.61815112.49914720.09214241.99513914.51813539.01113313.62213052.14513148.88213362.329									
22.5	12379.02312162.60011794.34011579.05711249.29110974.89110699.82310576.06110601.02410819.912									
25.0	9572.153 9448.608 9233.726 9092.299 8890.704 8633.921 8435.370 8318.532 8356.437 8468.130									
27.5	7094.223 7120.128 7056.809 6918.426 6738.896 6571.623 6385.268 6274.901 6350.633 6465.292									

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BL736LEDHTLOMBDWT30120-277V_P.IES

CANDELA TABULATION - (Cont.)

30.0	5110.446	5154.184	5139.297	5127.474	4977.611	4832.903	4647.158	4645.125	4652.883	4772.039
32.5	3594.778	3675.106	3699.322	3685.289	3585.645	3487.435	3349.533	3298.391	3332.437	3431.972
35.0	2500.192	2576.189	2621.557	2583.573	2529.966	2449.324	2324.335	2305.373	2323.245	2402.051
37.5	1697.888	1779.502	1806.114	1783.135	1745.800	1671.393	1608.506	1581.079	1605.933	1668.899
40.0	1162.767	1202.312	1226.430	1235.474	1190.282	1144.246	1112.537	1080.220	1114.295	1148.420
42.5	791.787	830.094	848.497	839.345	812.556	785.315	773.099	764.045	767.178	786.150
45.0	568.657	580.490	590.153	583.878	575.943	561.783	544.548	549.056	548.958	567.341
47.5	407.235	422.211	427.170	427.062	415.857	414.021	403.690	407.010	402.119	407.393
50.0	302.269	316.449	311.697	317.157	313.150	307.287	307.219	309.359	300.963	304.322
52.5	234.060	236.348	237.762	244.263	240.413	238.204	240.020	240.453	240.148	235.611
55.0	183.771	183.791	183.359	184.547	192.079	183.015	189.231	189.290	190.037	186.865
57.5	146.416	143.303	148.419	152.200	147.820	150.374	150.305	149.127	148.066	145.591
60.0	116.917	115.081	116.033	118.331	116.004	120.953	118.292	121.581	119.185	123.015
62.5	95.323	97.375	99.300	97.022	98.200	98.072	101.450	98.770	99.850	97.562
65.0	82.154	81.182	80.367	82.380	80.927	83.175	82.724	82.095	85.571	81.869
67.5	72.442	67.404	66.580	67.945	67.503	72.747	71.745	70.616	70.458	69.241
70.0	57.506	59.401	56.563	57.526	57.692	59.617	59.853	59.706	60.491	57.791
72.5	50.003	49.768	48.108	49.424	47.480	48.521	48.521	51.074	49.110	49.414
75.0	42.089	41.018	40.007	41.352	42.049	42.128	41.529	41.401	41.234	40.655
77.5	35.735	34.674	33.584	35.057	34.478	34.026	33.889	35.715	33.064	34.066
80.0	30.471	27.388	28.498	28.105	29.431	27.565	28.174	28.174	28.213	27.221
82.5	23.882	23.568	21.948	21.545	22.056	22.763	21.437	21.781	24.629	21.486
85.0	15.624	16.557	13.993	14.818	15.044	14.416	13.326	14.985	14.160	13.935
87.5	3.663	2.926	3.869	3.840	3.899	3.231	3.103	3.250	3.545	3.535
90.0	0.000	0.000	0.000	0.000	0.000	0.010	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	0.000	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

IES INDOOR REPORT
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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
Angles

	300	310	320	330	340	350	360
0.0	31019.43531019.43531019.43531019.43531019.43531019.43531019.435						
2.5	29289.74129353.64929521.28629424.65829515.37529629.15929315.204						
5.0	28379.33828216.33628454.45128472.41228670.28528389.29628804.505						
7.5	26613.21126835.18326836.97027095.13827319.35827377.25627546.386						
10.0	24529.78024815.30725185.85525443.83625601.36825940.95425849.431						
12.5	22093.39922405.29222705.04823121.00323427.33823642.95623929.287						
15.0	19360.16919617.47320054.31520516.64120956.37121253.91721400.313						
17.5	16392.19216827.94517371.52117755.31618173.56018538.78518694.236						
20.0	13703.55514070.39114404.56514918.56415298.26415506.87015758.498						
22.5	11038.67211300.08011699.83312045.53612368.35912652.61812802.147						
25.0	8700.736 8966.760 9237.389 9512.084 9824.281 9933.077 10042.099						
27.5	6690.219 6872.105 7110.947 7191.058 7314.820 7439.573 7457.347						
30.0	4939.607 5101.981 5233.854 5329.550 5343.317 5369.321 5372.394						
32.5	3576.493 3697.495 3809.443 3826.913 3790.677 3754.137 3740.261						
35.0	2524.535 2660.081 2684.297 2664.166 2621.056 2565.927 2544.431						
37.5	1760.736 1839.266 1849.460 1847.731 1771.214 1756.346 1724.019						
40.0	1199.827 1256.950 1291.703 1243.723 1211.238 1171.752 1155.372						
42.5	823.387 868.324 879.784 866.163 828.906 807.980 807.341						
45.0	587.236 604.735 617.030 596.879 576.729 580.706 567.134						
47.5	424.175 422.201 430.852 428.918 424.754 420.335 418.067						
50.0	311.922 323.785 317.765 319.572 313.867 310.371 315.536						
52.5	236.937 237.310 246.502 242.358 244.754 240.590 240.659						
55.0	186.904 184.174 190.449 193.022 189.290 194.848 187.896						
57.5	147.624 144.727 152.053 148.017 147.516 149.834 149.735						
60.0	121.140 120.305 118.783 119.215 118.537 118.076 121.945						
62.5	99.300 99.290 96.226 97.405 100.940 98.662 101.126						
65.0	81.751 79.621 82.174 84.030 82.409 84.177 88.832						
67.5	67.208 67.621 69.683 69.751 71.175 71.882 73.552						
70.0	57.712 58.517 56.436 60.727 58.851 58.832 59.873						
72.5	50.426 47.755 49.768 51.339 48.383 50.190 51.280						
75.0	41.028 41.951 42.953 40.773 43.493 43.473 42.717						
77.5	33.457 34.350 34.576 33.958 36.432 36.619 37.041						
80.0	31.041 29.745 29.372 30.462 29.352 30.157 31.778						
82.5	23.087 23.509 23.116 24.707 25.424 26.897 26.553						
85.0	14.141 16.007 15.466 14.838 16.124 16.665 16.753						
87.5	3.408 4.134 3.300 2.877 2.946 3.113 3.113						
90.0	0.000 0.000 0.029 0.000 0.000 0.000 0.020						
92.5	0.000 0.000 0.000 0.000 0.000 0.000 0.010						
95.0	0.000 0.000 0.000 0.000 0.000 0.029 0.000						
97.5	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						
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 0.020						
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						

IES INDOOR REPORT
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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	0.000	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	0.000	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	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	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
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	8152.65	N.A.	55.00
0-30	12357.44	N.A.	83.30
0-40	14030.93	N.A.	94.60
0-60	14690.52	N.A.	99.00
0-80	14819.36	N.A.	99.90
0-90	14834.75	N.A.	100.00
10-90	12209.83	N.A.	82.30
20-40	5878.28	N.A.	39.60
20-50	6362.7	N.A.	42.90
40-70	743.48	N.A.	5.00
60-80	128.84	N.A.	0.90
70-80	44.95	N.A.	0.30
80-90	15.39	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	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	14834.75	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2624.91
10-20	5527.74
20-30	4204.79
30-40	1673.49
40-50	484.42
50-60	175.17
60-70	83.90
70-80	44.95
80-90	15.39
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
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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	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	76	70	67	74	70	67	74	69	66	73	69	66	65
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59

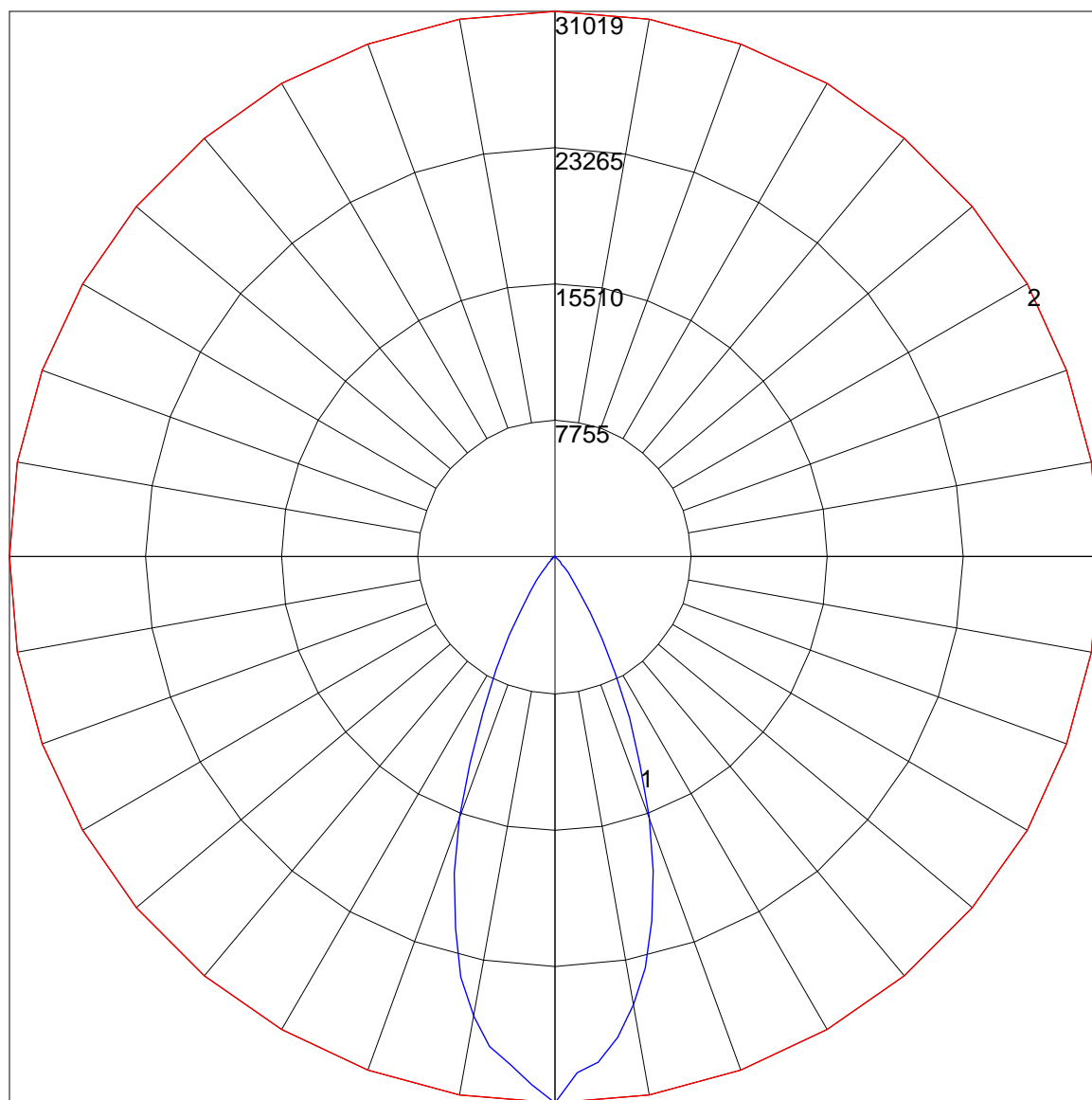
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UGR TABLE - CORRECTED

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	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	3H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	4H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	6H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	8H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	12H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
4H	2H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	3H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	4H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	6H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	8H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	12H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
8H	4H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	6H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	8H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	12H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
12H	4H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	6H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	8H	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4

Maximum UGR = 9.4

POLAR GRAPH



Maximum Candela = 31019.435 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)