



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG2HTHOWT30120-277V\_S\_EFF.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2021.0.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Tue Jun 22 11:07:25 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LEDPG2HTHOWT30120-277V\_S

[LAMP] LED 0.915W DURIS S 5 3030 (150mA)

[LAMPCAT] GW PSLRS1.PC-LRLT-5L7N-1

[OTHER]

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 5854                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 117                 |
| Total Luminaire Watts           | 50                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.58                |
| Spacing Criterion (90-270)      | 3.16                |
| Spacing Criterion (Diagonal)    | 2.50                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 2.28 ft             |
| Luminous Width (90-270)         | 0.55 ft             |
| Luminous Height                 | 0.32 ft             |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 4877             | 7670              | 9563              |
| 55                  | 5064             | 8125              | 12374             |
| 65                  | 4709             | 9706              | 13678             |
| 75                  | 3876             | 10168             | 13599             |
| 85                  | 2902             | 9934              | 13812             |

CANDELA TABULATION

|            | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>   | 470.886  | 470.886  | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   |
| <b>5</b>   | 503.609  | 462.469  | 503.853   | 468.338   | 482.958   | 484.521   | 511.122   | 482.816   | 508.716   | 497.527   |
| <b>10</b>  | 469.018  | 492.684  | 510.625   | 494.725   | 487.902   | 525.469   | 521.143   | 547.886   | 579.746   | 579.584   |
| <b>15</b>  | 475.627  | 501.436  | 486.095   | 504.523   | 544.576   | 553.927   | 595.758   | 640.786   | 682.454   | 703.542   |
| <b>20</b>  | 490.288  | 498.797  | 515.590   | 532.525   | 588.600   | 636.055   | 666.321   | 739.240   | 814.677   | 870.813   |
| <b>25</b>  | 488.298  | 495.669  | 523.316   | 582.975   | 631.070   | 682.952   | 769.293   | 829.267   | 901.607   | 970.992   |
| <b>30</b>  | 482.268  | 496.482  | 535.530   | 593.483   | 692.160   | 762.176   | 831.866   | 900.094   | 979.003   | 1006.700  |
| <b>35</b>  | 496.461  | 505.081  | 543.419   | 619.841   | 708.019   | 801.508   | 889.525   | 934.289   | 986.202   | 1009.696  |
| <b>40</b>  | 470.632  | 500.320  | 549.815   | 632.715   | 713.756   | 813.387   | 868.102   | 933.497   | 964.291   | 990.517   |
| <b>45</b>  | 462.134  | 492.776  | 544.038   | 629.263   | 714.660   | 788.766   | 839.511   | 902.277   | 928.543   | 958.128   |
| <b>50</b>  | 455.057  | 461.962  | 524.626   | 619.100   | 672.839   | 759.059   | 793.508   | 845.176   | 897.444   | 946.909   |
| <b>55</b>  | 409.572  | 436.985  | 477.638   | 563.278   | 630.654   | 688.851   | 742.042   | 803.661   | 873.117   | 940.929   |
| <b>60</b>  | 379.885  | 381.022  | 441.016   | 503.548   | 559.806   | 634.502   | 706.720   | 791.000   | 871.605   | 973.409   |
| <b>65</b>  | 303.859  | 312.438  | 360.482   | 429.523   | 495.253   | 586.478   | 666.544   | 791.051   | 892.997   | 1001.482  |
| <b>70</b>  | 244.444  | 261.683  | 295.808   | 346.481   | 429.807   | 529.966   | 620.795   | 743.525   | 865.564   | 956.149   |
| <b>75</b>  | 179.160  | 192.481  | 220.513   | 279.045   | 355.731   | 450.925   | 571.583   | 683.409   | 810.098   | 888.946   |
| <b>80</b>  | 119.562  | 133.674  | 167.778   | 220.736   | 297.950   | 384.636   | 501.467   | 603.718   | 702.324   | 782.258   |
| <b>85</b>  | 76.960   | 88.189   | 114.363   | 164.154   | 228.422   | 316.571   | 408.059   | 511.681   | 609.424   | 685.510   |
| <b>90</b>  | 42.297   | 53.994   | 72.289    | 111.054   | 176.886   | 248.190   | 331.445   | 409.247   | 500.370   | 559.014   |
| <b>95</b>  | 23.494   | 27.383   | 41.272    | 67.111    | 110.840   | 170.601   | 224.595   | 281.563   | 338.146   | 383.499   |
| <b>100</b> | 14.945   | 16.255   | 18.539    | 32.114    | 60.258    | 90.341    | 130.974   | 166.276   | 194.034   | 226.970   |
| <b>105</b> | 6.803    | 8.001    | 9.168     | 12.986    | 26.357    | 43.881    | 62.888    | 83.752    | 101.164   | 119.399   |
| <b>110</b> | 5.584    | 5.726    | 5.777     | 5.706     | 11.006    | 17.626    | 29.962    | 40.480    | 50.999    | 63.842    |
| <b>115</b> | 4.041    | 4.102    | 4.285     | 3.787     | 4.122     | 7.432     | 12.153    | 20.428    | 24.540    | 34.246    |
| <b>120</b> | 2.883    | 2.244    | 2.447     | 2.244     | 1.807     | 2.538     | 3.899     | 7.605     | 12.610    | 16.032    |
| <b>125</b> | 1.635    | 1.492    | 1.188     | 0.792     | 1.310     | 1.371     | 1.391     | 2.579     | 4.691     | 8.397     |
| <b>130</b> | 0.883    | 1.036    | 0.751     | 0.924     | 0.416     | 0.883     | 0.701     | 0.741     | 1.442     | 3.219     |
| <b>135</b> | 0.203    | 0.528    | 0.254     | 0.386     | 0.548     | 0.264     | 0.355     | 0.741     | 0.629     | 0.883     |
| <b>140</b> | 0.000    | 0.081    | 0.071     | 0.122     | 0.061     | 0.193     | 0.071     | 0.010     | 0.315     | 0.274     |
| <b>145</b> | 0.112    | 0.000    | 0.081     | 0.000     | 0.020     | 0.081     | 0.091     | 0.051     | 0.213     | 0.162     |
| <b>150</b> | 0.000    | 0.000    | 0.000     | 0.152     | 0.010     | 0.000     | 0.000     | 0.162     | 0.152     | 0.071     |
| <b>155</b> | 0.000    | 0.000    | 0.112     | 0.000     | 0.000     | 0.000     | 0.081     | 0.000     | 0.081     | 0.112     |
| <b>160</b> | 0.000    | 0.000    | 0.000     | 0.091     | 0.000     | 0.010     | 0.000     | 0.000     | 0.122     | 0.081     |
| <b>165</b> | 0.284    | 0.142    | 0.000     | 0.000     | 0.102     | 0.000     | 0.071     | 0.000     | 0.000     | 0.213     |
| <b>170</b> | 0.000    | 0.203    | 0.000     | 0.000     | 0.000     | 0.152     | 0.000     | 0.000     | 0.000     | 0.000     |
| <b>175</b> | 0.000    | 0.000    | 0.183     | 0.000     | 0.000     | 0.000     | 0.548     | 0.467     | 0.000     | 0.000     |
| <b>180</b> | 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>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   | 470.886   |
| <b>5</b>  | 518.514   | 512.838   | 533.713   | 544.637   | 538.180   | 534.627   | 557.197   | 529.672   | 512.229   |
| <b>10</b> | 613.840   | 623.069   | 637.832   | 632.187   | 675.510   | 698.679   | 671.469   | 678.505   | 704.994   |
| <b>15</b> | 767.506   | 766.399   | 804.503   | 839.856   | 875.869   | 860.731   | 914.308   | 913.415   | 924.299   |
| <b>20</b> | 916.532   | 944.534   | 976.191   | 1023.189  | 1045.678  | 1047.637  | 1085.417  | 1106.707  | 1091.184  |
| <b>25</b> | 998.801   | 1060.542  | 1109.906  | 1113.683  | 1145.573  | 1136.608  | 1177.586  | 1185.018  | 1174.266  |
| <b>30</b> | 1053.029  | 1089.762  | 1129.724  | 1130.801  | 1165.727  | 1176.154  | 1189.363  | 1210.908  | 1207.263  |
| <b>35</b> | 1058.217  | 1071.842  | 1088.737  | 1131.562  | 1145.462  | 1168.001  | 1200.338  | 1193.648  | 1180.703  |
| <b>40</b> | 1006.274  | 1042.977  | 1072.218  | 1097.519  | 1115.104  | 1170.286  | 1193.759  | 1211.629  | 1180.692  |
| <b>45</b> | 987.024   | 1025.524  | 1059.263  | 1111.540  | 1132.141  | 1204.227  | 1215.852  | 1242.128  | 1249.449  |
| <b>50</b> | 991.644   | 1054.724  | 1098.616  | 1161.940  | 1214.279  | 1278.273  | 1321.220  | 1346.339  | 1365.254  |
| <b>55</b> | 1014.356  | 1117.490  | 1168.346  | 1257.551  | 1323.474  | 1381.641  | 1436.304  | 1474.947  | 1515.213  |
| <b>60</b> | 1055.577  | 1156.488  | 1258.546  | 1326.946  | 1407.561  | 1462.936  | 1514.198  | 1551.592  | 1552.049  |

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**CANDELA TABULATION - (Cont.)**

|            |          |          |          |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>65</b>  | 1072.746 | 1185.586 | 1264.952 | 1325.596 | 1398.891 | 1446.813 | 1503.274 | 1542.677 | 1511.853 |
| <b>70</b>  | 1064.847 | 1136.740 | 1194.064 | 1268.526 | 1306.407 | 1365.609 | 1400.637 | 1422.395 | 1416.445 |
| <b>75</b>  | 965.449  | 1033.058 | 1091.569 | 1154.447 | 1209.009 | 1242.981 | 1266.648 | 1290.731 | 1295.401 |
| <b>80</b>  | 853.360  | 926.705  | 980.435  | 1033.139 | 1077.822 | 1115.551 | 1135.948 | 1157.371 | 1167.524 |
| <b>85</b>  | 753.170  | 806.839  | 876.915  | 922.095  | 968.109  | 1002.629 | 1028.265 | 1060.968 | 1064.664 |
| <b>90</b>  | 617.627  | 665.174  | 736.326  | 771.100  | 811.570  | 848.090  | 867.503  | 891.789  | 886.103  |
| <b>95</b>  | 435.787  | 480.440  | 529.530  | 550.587  | 580.173  | 608.307  | 616.236  | 637.253  | 647.569  |
| <b>100</b> | 254.952  | 278.162  | 305.088  | 325.759  | 341.791  | 357.355  | 370.117  | 374.564  | 391.530  |
| <b>105</b> | 140.721  | 154.681  | 169.799  | 174.063  | 188.836  | 199.902  | 204.847  | 203.436  | 217.619  |
| <b>110</b> | 74.564   | 85.295   | 93.042   | 103.835  | 112.556  | 113.064  | 117.257  | 118.922  | 122.191  |
| <b>115</b> | 40.876   | 47.953   | 55.354   | 61.182   | 63.385   | 67.020   | 67.233   | 72.056   | 74.919   |
| <b>120</b> | 21.941   | 28.022   | 30.449   | 33.881   | 33.952   | 39.018   | 42.582   | 41.313   | 40.521   |
| <b>125</b> | 10.925   | 13.453   | 14.702   | 16.600   | 20.570   | 21.697   | 21.870   | 23.068   | 25.971   |
| <b>130</b> | 3.858    | 6.813    | 6.965    | 9.595    | 10.356   | 10.346   | 12.580   | 13.595   | 13.209   |
| <b>135</b> | 0.965    | 3.178    | 4.021    | 4.467    | 5.828    | 5.472    | 5.808    | 6.325    | 8.193    |
| <b>140</b> | 0.548    | 0.741    | 1.229    | 1.330    | 1.330    | 2.315    | 2.152    | 2.538    | 3.290    |
| <b>145</b> | 0.010    | 0.183    | 0.173    | 0.325    | 0.680    | 0.741    | 0.893    | 0.802    | 0.497    |
| <b>150</b> | 0.305    | 0.000    | 0.091    | 0.152    | 0.142    | 0.558    | 0.629    | 0.294    | 0.345    |
| <b>155</b> | 0.000    | 0.000    | 0.162    | 0.102    | 0.000    | 0.010    | 0.122    | 0.112    | 0.030    |
| <b>160</b> | 0.000    | 0.010    | 0.000    | 0.000    | 0.132    | 0.000    | 0.071    | 0.112    | 0.020    |
| <b>165</b> | 0.000    | 0.000    | 0.183    | 0.000    | 0.000    | 0.162    | 0.000    | 0.000    | 0.000    |
| <b>170</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>175</b> | 0.579    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>180</b> | 0.000    | 0.000    | 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    | 253.16  | N.A.  | 4.30   |
| 0-30    | 665.01  | N.A.  | 11.40  |
| 0-40    | 1251.96 | N.A.  | 21.40  |
| 0-60    | 2831.86 | N.A.  | 48.40  |
| 0-80    | 4614.94 | N.A.  | 78.80  |
| 0-90    | 5282.81 | N.A.  | 90.20  |
| 10-90   | 5231.85 | N.A.  | 89.40  |
| 20-40   | 998.80  | N.A.  | 17.10  |
| 20-50   | 1718.08 | N.A.  | 29.30  |
| 40-70   | 2516.55 | N.A.  | 43.00  |
| 60-80   | 1783.08 | N.A.  | 30.50  |
| 70-80   | 846.43  | N.A.  | 14.50  |
| 80-90   | 667.87  | N.A.  | 11.40  |
| 90-110  | 521.18  | N.A.  | 8.90   |
| 90-120  | 558.86  | N.A.  | 9.50   |
| 90-130  | 568.86  | N.A.  | 9.70   |
| 90-150  | 571.25  | N.A.  | 9.80   |
| 90-180  | 571.31  | N.A.  | 9.80   |
| 110-180 | 50.13   | N.A.  | 0.90   |
| 0-180   | 5854.11 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 50.95  |
| 10-20   | 202.20 |
| 20-30   | 411.86 |
| 30-40   | 586.95 |
| 40-50   | 719.28 |
| 50-60   | 860.63 |
| 60-70   | 936.65 |
| 70-80   | 846.43 |
| 80-90   | 667.87 |
| 90-100  | 390.07 |
| 100-110 | 131.11 |
| 110-120 | 37.67  |
| 120-130 | 10.01  |
| 130-140 | 2.14   |
| 140-150 | 0.25   |
| 150-160 | 0.04   |
| 160-170 | 0.01   |
| 170-180 | 0.01   |

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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  | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 90 |
| 1  | 101 | 93  | 87  | 81  | 97  | 90  | 84  | 79  | 84  | 79  | 74  | 78 | 74 | 70 | 73 | 69 | 67 | 63 |
| 2  | 89  | 78  | 69  | 61  | 85  | 75  | 66  | 59  | 69  | 62  | 56  | 65 | 59 | 53 | 60 | 55 | 51 | 48 |
| 3  | 79  | 66  | 56  | 47  | 76  | 64  | 54  | 46  | 59  | 51  | 44  | 55 | 48 | 42 | 51 | 45 | 40 | 37 |
| 4  | 72  | 57  | 46  | 38  | 68  | 55  | 45  | 37  | 51  | 42  | 36  | 47 | 40 | 34 | 44 | 38 | 33 | 30 |
| 5  | 65  | 50  | 39  | 32  | 62  | 48  | 38  | 31  | 45  | 36  | 30  | 42 | 34 | 28 | 39 | 32 | 27 | 24 |
| 6  | 60  | 44  | 34  | 27  | 57  | 43  | 33  | 26  | 40  | 31  | 25  | 37 | 30 | 24 | 34 | 28 | 23 | 20 |
| 7  | 55  | 40  | 30  | 23  | 52  | 38  | 29  | 22  | 36  | 27  | 21  | 33 | 26 | 20 | 31 | 25 | 20 | 17 |
| 8  | 51  | 36  | 26  | 20  | 49  | 35  | 26  | 19  | 32  | 24  | 19  | 30 | 23 | 18 | 28 | 22 | 17 | 15 |
| 9  | 47  | 32  | 23  | 17  | 45  | 31  | 23  | 17  | 29  | 22  | 16  | 28 | 21 | 16 | 26 | 20 | 15 | 13 |
| 10 | 44  | 30  | 21  | 15  | 42  | 29  | 21  | 15  | 27  | 20  | 14  | 25 | 19 | 14 | 24 | 18 | 13 | 11 |

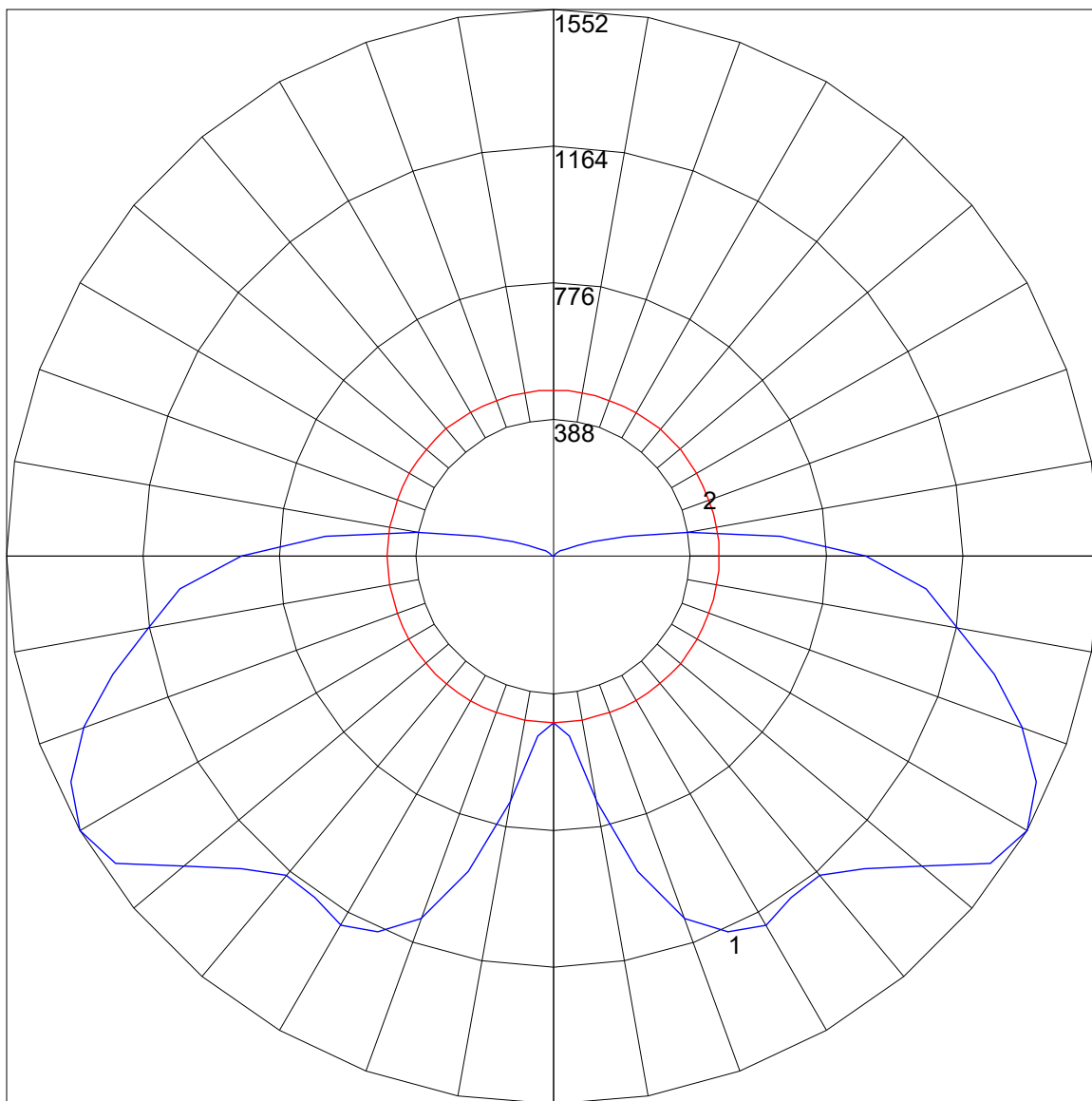
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**UGR TABLE - CORRECTED**

| 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 | 15.1                 | 16.8 | 15.6 | 17.3 | 17.8 | 22.1               | 23.8 | 22.6 | 24.3 | 24.8 |
|                | 3H   | 16.3                 | 17.9 | 16.9 | 18.4 | 19.0 | 25.6               | 27.1 | 26.1 | 27.7 | 28.2 |
|                | 4H   | 16.7                 | 18.2 | 17.2 | 18.7 | 19.3 | 27.1               | 28.6 | 27.6 | 29.1 | 29.7 |
|                | 6H   | 17.0                 | 18.4 | 17.5 | 18.9 | 19.5 | 28.6               | 30.0 | 29.2 | 30.5 | 31.2 |
|                | 8H   | 17.1                 | 18.4 | 17.6 | 19.0 | 19.6 | 29.3               | 30.7 | 29.9 | 31.3 | 31.9 |
|                | 12H  | 17.1                 | 18.4 | 17.7 | 19.0 | 19.6 | 30.1               | 31.4 | 30.7 | 32.0 | 32.6 |
| 4H             | 2H   | 17.8                 | 19.3 | 18.3 | 19.8 | 20.4 | 22.5               | 23.9 | 23.0 | 24.5 | 25.1 |
|                | 3H   | 19.4                 | 20.7 | 20.0 | 21.3 | 21.9 | 26.2               | 27.5 | 26.7 | 28.0 | 28.7 |
|                | 4H   | 20.0                 | 21.2 | 20.5 | 21.7 | 22.4 | 27.9               | 29.1 | 28.5 | 29.7 | 30.3 |
|                | 6H   | 20.3                 | 21.4 | 20.9 | 22.0 | 22.6 | 29.6               | 30.7 | 30.2 | 31.3 | 31.9 |
|                | 8H   | 20.4                 | 21.4 | 21.0 | 22.0 | 22.7 | 30.5               | 31.5 | 31.1 | 32.1 | 32.8 |
|                | 12H  | 20.5                 | 21.4 | 21.1 | 22.0 | 22.7 | 31.4               | 32.3 | 32.0 | 32.9 | 33.6 |
| 8H             | 4H   | 22.1                 | 23.1 | 22.7 | 23.7 | 24.4 | 28.1               | 29.1 | 28.7 | 29.7 | 30.4 |
|                | 6H   | 22.8                 | 23.6 | 23.4 | 24.3 | 25.0 | 30.0               | 30.9 | 30.6 | 31.5 | 32.2 |
|                | 8H   | 23.0                 | 23.8 | 23.6 | 24.4 | 25.1 | 31.0               | 31.8 | 31.6 | 32.5 | 33.1 |
|                | 12H  | 23.1                 | 23.8 | 23.7 | 24.5 | 25.2 | 32.1               | 32.8 | 32.8 | 33.5 | 34.2 |
| 12H            | 4H   | 22.7                 | 23.6 | 23.3 | 24.2 | 24.9 | 28.1               | 29.0 | 28.7 | 29.7 | 30.4 |
|                | 6H   | 23.6                 | 24.4 | 24.2 | 25.0 | 25.7 | 30.1               | 30.9 | 30.7 | 31.5 | 32.2 |
|                | 8H   | 24.0                 | 24.7 | 24.6 | 25.3 | 26.1 | 31.1               | 31.8 | 31.8 | 32.5 | 33.2 |

Maximum UGR = 34.2

POLAR GRAPH



Maximum Candela = 1552.049 Located At Horizontal Angle = 90, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)