

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P824345

Luminaire Tested: CB3-D-125U-085D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824345  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-D-125U-085D-840-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8306.2 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: General Diffuse

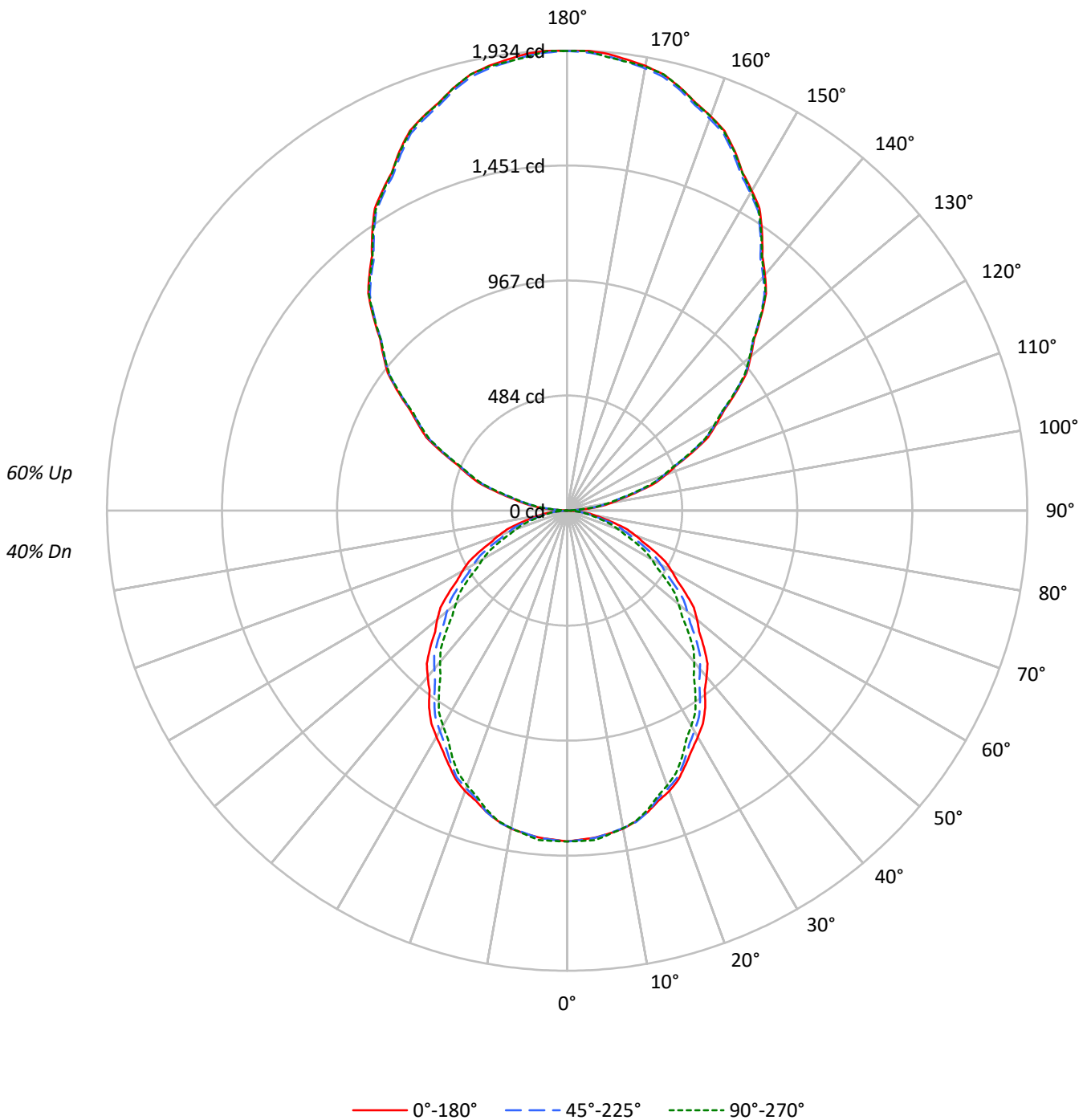
Input Watts (W): 62.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF  | 20  |     |     |     |    |    |    |    |    | 20 |    |    |    |    |    |    |    |    | 20 |    |    |    |    |   |  |  |  | 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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 0   | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 40 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 1   | 96  | 92  | 88  | 84  | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 55 | 53 | 52 | 42 | 41 | 40 | 34 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 64 | 60 | 56 | 53 | 48 | 46 | 43 | 37 | 35 | 34 | 29 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 80  | 70  | 63  | 58  | 72 | 64 | 58 | 53 | 53 | 49 | 45 | 43 | 39 | 37 | 33 | 31 | 29 | 24 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 4   | 73  | 62  | 55  | 49  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 32 | 29 | 27 | 25 | 21 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 5   | 67  | 56  | 48  | 42  | 61 | 51 | 44 | 39 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 | 18 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 | 16 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 7   | 57  | 45  | 37  | 32  | 52 | 41 | 34 | 30 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 53  | 41  | 33  | 28  | 48 | 38 | 31 | 26 | 31 | 26 | 23 | 26 | 22 | 19 | 20 | 18 | 15 | 13 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 12 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 15 | 13 | 11 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15735 | 15735 | 15735 |
| 5°  | 15661 | 15673 | 15778 |
| 10° | 15593 | 15570 | 15570 |
| 15° | 15354 | 15354 | 15262 |
| 20° | 15106 | 14951 | 14803 |
| 25° | 14708 | 14523 | 14265 |
| 30° | 14348 | 13973 | 13638 |
| 35° | 13969 | 13451 | 12974 |
| 40° | 13466 | 12825 | 12271 |
| 45° | 13009 | 12267 | 11510 |
| 50° | 12540 | 11602 | 10767 |
| 55° | 12029 | 10958 | 10062 |
| 60° | 11475 | 10294 | 9267  |
| 65° | 10830 | 9536  | 8425  |
| 70° | 10087 | 8651  | 7506  |
| 75° | 9145  | 7593  | 6684  |
| 80° | 7969  | 6366  | 5916  |
| 85° | 6153  | 5375  | 5375  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13009 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.2  | 1.6       |
| 10°-20°   | 368.7  | 4.4       |
| 20°-30°   | 535.2  | 6.4       |
| 30°-40°   | 608.3  | 7.3       |
| 40°-50°   | 590.5  | 7.1       |
| 50°-60°   | 498.6  | 6.0       |
| 60°-70°   | 354.7  | 4.3       |
| 70°-80°   | 189.5  | 2.3       |
| 80°-90°   | 50.1   | 0.6       |
| 90°-100°  | 81.6   | 1.0       |
| 100°-110° | 319.4  | 3.8       |
| 110°-120° | 569.3  | 6.9       |
| 120°-130° | 770.4  | 9.3       |
| 130°-140° | 885.7  | 10.7      |
| 140°-150° | 888.8  | 10.7      |
| 150°-160° | 764.3  | 9.2       |
| 160°-170° | 517.4  | 6.2       |
| 170°-180° | 182.5  | 2.2       |
| 0°-30°    | 1035.1 | 12.5      |
| 0°-40°    | 1643.4 | 19.8      |
| 0°-60°    | 2732.4 | 32.9      |
| 0°-90°    | 3326.7 | 40.1      |
| 90°-120°  | 970.4  | 11.7      |
| 90°-150°  | 3515.3 | 42.3      |
| 90°-180°  | 4980.0 | 60.0      |
| 0°-180°   | 8306.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1391 | 1391  | 1391 | 1391  | 1391 |      |
| 5°   | 1379 | 1396  | 1380 | 1378  | 1389 | 131  |
| 15°  | 1311 | 1322  | 1311 | 1303  | 1303 | 369  |
| 25°  | 1178 | 1182  | 1163 | 1147  | 1143 | 543  |
| 35°  | 1011 | 1002  | 974  | 945   | 939  | 630  |
| 45°  | 813  | 800   | 767  | 730   | 719  | 627  |
| 55°  | 610  | 593   | 556  | 520   | 510  | 545  |
| 65°  | 404  | 390   | 356  | 324   | 315  | 401  |
| 75°  | 209  | 198   | 174  | 156   | 153  | 223  |
| 85°  | 47   | 44    | 41   | 41    | 41   | 56   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 5    |
| 95°  | 78   | 71    | 64   | 59    | 61   | 90   |
| 105° | 310  | 308   | 298  | 293   | 290  | 330  |
| 115° | 581  | 584   | 570  | 569   | 567  | 576  |
| 125° | 865  | 875   | 858  | 855   | 856  | 774  |
| 135° | 1153 | 1164  | 1145 | 1136  | 1148 | 889  |
| 145° | 1428 | 1440  | 1416 | 1409  | 1422 | 892  |
| 155° | 1667 | 1681  | 1653 | 1646  | 1664 | 767  |
| 165° | 1840 | 1856  | 1831 | 1821  | 1840 | 518  |
| 175° | 1927 | 1945  | 1918 | 1907  | 1914 | 183  |
| 180° | 1932 | 1932  | 1932 | 1932  | 1932 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1390.7 | 1390.7 | 1390.7 | 1390.7 | 1390.7 |
| 2.5°   | 1383.6 | 1397.5 | 1385.2 | 1386.8 | 1389.9 |
| 5°     | 1378.9 | 1396.2 | 1379.9 | 1378.1 | 1389.2 |
| 7.5°   | 1368.2 | 1384.0 | 1367.0 | 1363.1 | 1371.8 |
| 10°    | 1357.2 | 1374.5 | 1355.2 | 1350.4 | 1355.2 |
| 12.5°  | 1337.4 | 1355.6 | 1340.2 | 1332.2 | 1336.2 |
| 15°    | 1310.8 | 1322.4 | 1310.8 | 1302.9 | 1302.9 |
| 17.5°  | 1278.2 | 1290.4 | 1268.6 | 1263.0 | 1260.6 |
| 20°    | 1254.6 | 1265.2 | 1241.7 | 1233.7 | 1229.4 |
| 22.5°  | 1223.0 | 1232.8 | 1213.3 | 1198.6 | 1194.7 |
| 25°    | 1178.1 | 1181.9 | 1163.3 | 1147.4 | 1142.6 |
| 27.5°  | 1134.5 | 1135.4 | 1109.8 | 1090.5 | 1084.2 |
| 30°    | 1098.2 | 1099.1 | 1069.5 | 1048.7 | 1043.9 |
| 32.5°  | 1061.9 | 1059.0 | 1030.9 | 1006.1 | 1002.9 |
| 35°    | 1011.3 | 1001.7 | 973.8  | 945.1  | 939.3  |
| 37.5°  | 950.4  | 944.6  | 911.7  | 882.9  | 874.2  |
| 40°    | 911.7  | 902.0  | 868.3  | 839.5  | 830.8  |
| 42.5°  | 873.0  | 861.8  | 827.2  | 795.2  | 785.8  |
| 45°    | 813.0  | 800.5  | 766.6  | 729.9  | 719.3  |
| 47.5°  | 752.6  | 738.9  | 701.7  | 666.1  | 654.4  |
| 50°    | 712.4  | 697.9  | 659.1  | 624.3  | 611.7  |
| 52.5°  | 671.3  | 656.1  | 617.3  | 581.7  | 571.5  |
| 55°    | 609.8  | 593.4  | 555.5  | 519.8  | 510.1  |
| 57.5°  | 548.2  | 532.0  | 494.3  | 460.5  | 448.9  |
| 60°    | 507.1  | 491.7  | 454.9  | 421.0  | 409.5  |
| 62.5°  | 465.3  | 450.6  | 414.6  | 381.6  | 370.8  |
| 65°    | 404.5  | 390.1  | 356.2  | 324.4  | 314.7  |
| 67.5°  | 344.3  | 332.0  | 298.6  | 269.4  | 261.7  |
| 70°    | 304.9  | 293.3  | 261.5  | 234.7  | 226.9  |
| 72.5°  | 267.0  | 254.6  | 224.4  | 201.6  | 196.1  |
| 75°    | 209.2  | 197.6  | 173.7  | 155.8  | 152.9  |
| 77.5°  | 156.3  | 146.8  | 126.1  | 116.0  | 114.5  |
| 80°    | 122.3  | 113.7  | 97.7   | 90.8   | 90.8   |
| 82.5°  | 90.8   | 83.6   | 73.2   | 70.3   | 70.3   |
| 85°    | 47.4   | 43.5   | 41.4   | 41.4   | 41.4   |
| 87.5°  | 14.2   | 14.2   | 13.4   | 12.6   | 12.6   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 21.3   | 19.0   | 11.9   | 9.5    | 9.5    |
| 95°    | 78.5   | 71.3   | 63.7   | 59.3   | 60.7   |
| 97.5°  | 144.9  | 137.9  | 128.6  | 124.2  | 125.3  |
| 100°   | 191.1  | 185.3  | 174.8  | 170.4  | 170.4  |
| 102.5° | 236.1  | 232.7  | 222.2  | 217.8  | 219.0  |
| 105°   | 309.6  | 308.2  | 297.8  | 293.3  | 290.4  |
| 107.5° | 390.8  | 388.2  | 376.6  | 376.2  | 373.6  |
| 110°   | 443.0  | 441.5  | 431.1  | 429.6  | 428.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 496.3  | 498.3  | 486.8  | 485.3  | 483.8  |
| 115°   | 580.7  | 583.6  | 570.4  | 568.8  | 567.4  |
| 117.5° | 667.2  | 671.3  | 657.2  | 655.6  | 653.0  |
| 120°   | 722.9  | 731.6  | 714.1  | 712.5  | 711.1  |
| 122.5° | 779.8  | 787.4  | 770.9  | 768.3  | 768.0  |
| 125°   | 865.2  | 875.3  | 857.8  | 854.8  | 856.3  |
| 127.5° | 950.5  | 960.9  | 944.6  | 938.7  | 941.9  |
| 130°   | 1007.4 | 1019.0 | 1001.5 | 995.6  | 1000.0 |
| 132.5° | 1065.5 | 1077.1 | 1059.5 | 1053.8 | 1060.4 |
| 135°   | 1152.6 | 1164.2 | 1145.2 | 1136.5 | 1148.1 |
| 137.5° | 1237.6 | 1247.7 | 1226.9 | 1221.0 | 1233.2 |
| 140°   | 1293.3 | 1303.4 | 1281.5 | 1274.4 | 1288.9 |
| 142.5° | 1347.8 | 1359.1 | 1334.8 | 1327.7 | 1343.4 |
| 145°   | 1428.1 | 1439.7 | 1416.3 | 1409.2 | 1422.2 |
| 147.5° | 1505.2 | 1517.0 | 1493.3 | 1485.0 | 1498.3 |
| 150°   | 1552.6 | 1565.6 | 1540.7 | 1533.6 | 1548.1 |
| 152.5° | 1598.8 | 1613.0 | 1586.9 | 1578.7 | 1596.7 |
| 155°   | 1666.6 | 1681.1 | 1653.3 | 1646.3 | 1663.7 |
| 157.5° | 1727.7 | 1741.0 | 1715.8 | 1708.8 | 1723.8 |
| 160°   | 1764.4 | 1778.9 | 1752.6 | 1745.5 | 1762.9 |
| 162.5° | 1796.4 | 1810.9 | 1786.9 | 1777.5 | 1794.9 |
| 165°   | 1840.0 | 1855.9 | 1831.1 | 1821.1 | 1840.0 |
| 167.5° | 1876.4 | 1893.5 | 1867.2 | 1858.2 | 1877.0 |
| 170°   | 1897.7 | 1913.7 | 1887.4 | 1875.9 | 1894.8 |
| 172.5° | 1912.0 | 1927.9 | 1901.6 | 1890.0 | 1903.1 |
| 175°   | 1927.4 | 1944.8 | 1918.5 | 1906.8 | 1914.0 |
| 177.5° | 1934.2 | 1948.1 | 1927.1 | 1916.8 | 1933.0 |
| 180°   | 1931.8 | 1931.8 | 1931.8 | 1931.8 | 1931.8 |



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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 15.72            | 16.49 | 16.76 | 17.54 | 18.94 | 14.64          | 15.41 | 15.68 | 16.46 | 17.87 |
|                 | 3H   | 17.38            | 18.07 | 18.43 | 19.12 | 20.55 | 16.05          | 16.74 | 17.10 | 17.79 | 19.22 |
|                 | 4H   | 18.01            | 18.66 | 19.07 | 19.72 | 21.15 | 16.56          | 17.22 | 17.62 | 18.27 | 19.71 |
|                 | 6H   | 18.39            | 18.99 | 19.46 | 20.05 | 21.49 | 16.88          | 17.48 | 17.95 | 18.54 | 19.98 |
|                 | 8H   | 18.52            | 19.09 | 19.60 | 20.17 | 21.61 | 17.00          | 17.57 | 18.07 | 18.64 | 20.09 |
|                 | 12H  | 18.59            | 19.13 | 19.67 | 20.20 | 21.66 | 17.07          | 17.61 | 18.15 | 18.68 | 20.15 |
| 4H              | 2H   | 16.12            | 16.77 | 17.19 | 17.83 | 19.26 | 15.26          | 15.91 | 16.33 | 16.97 | 18.40 |
|                 | 3H   | 18.00            | 18.54 | 19.08 | 19.63 | 21.07 | 16.87          | 17.42 | 17.95 | 18.50 | 19.94 |
|                 | 4H   | 18.75            | 19.24 | 19.83 | 20.32 | 21.79 | 17.47          | 17.97 | 18.55 | 19.05 | 20.51 |
|                 | 6H   | 19.24            | 19.67 | 20.33 | 20.77 | 22.23 | 17.88          | 18.31 | 18.97 | 19.41 | 20.87 |
|                 | 8H   | 19.43            | 19.83 | 20.52 | 20.92 | 22.40 | 18.05          | 18.45 | 19.14 | 19.54 | 21.02 |
|                 | 12H  | 19.52            | 19.89 | 20.63 | 20.99 | 22.47 | 18.15          | 18.51 | 19.26 | 19.61 | 21.10 |
| 8H              | 4H   | 18.87            | 19.27 | 19.96 | 20.36 | 21.83 | 17.73          | 18.13 | 18.82 | 19.22 | 20.69 |
|                 | 6H   | 19.48            | 19.81 | 20.59 | 20.94 | 22.42 | 18.25          | 18.58 | 19.37 | 19.71 | 21.19 |
|                 | 8H   | 19.76            | 20.05 | 20.88 | 21.16 | 22.65 | 18.50          | 18.79 | 19.62 | 19.91 | 21.40 |
|                 | 12H  | 19.92            | 20.17 | 21.04 | 21.28 | 22.81 | 18.68          | 18.93 | 19.80 | 20.04 | 21.57 |
| 12H             | 4H   | 18.84            | 19.20 | 19.94 | 20.30 | 21.78 | 17.73          | 18.09 | 18.83 | 19.19 | 20.67 |
|                 | 6H   | 19.50            | 19.79 | 20.62 | 20.90 | 22.40 | 18.31          | 18.60 | 19.43 | 19.71 | 21.21 |
|                 | 8H   | 19.79            | 20.05 | 20.92 | 21.16 | 22.69 | 18.59          | 18.84 | 19.71 | 19.95 | 21.48 |