

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: P824200

Luminaire Tested: CB2-D-055U-120D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824200  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-D-055U-120D-835-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
2-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 80 CRI, 3500K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7026.9 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Semi-Direct

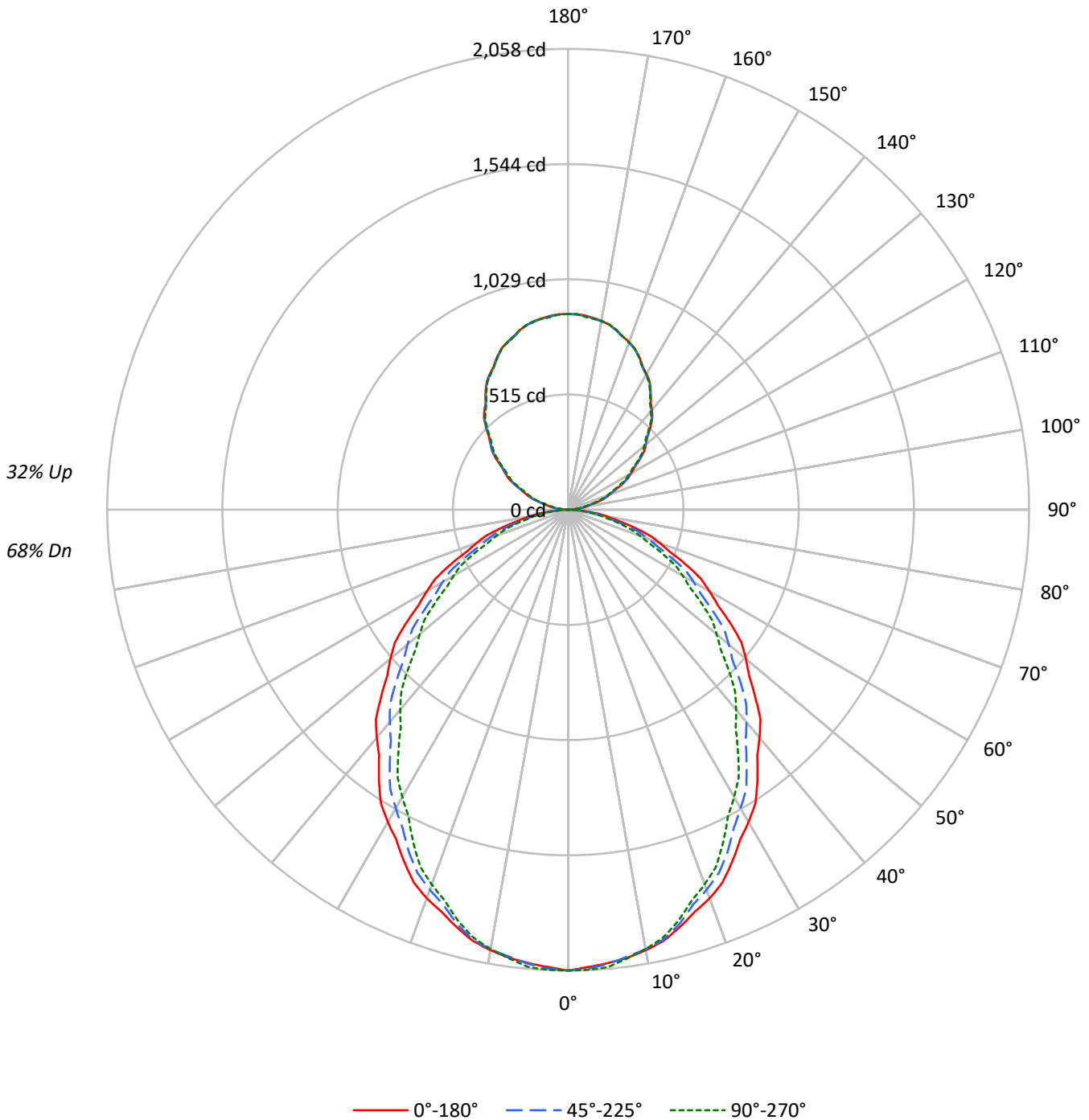
Input Watts (W): 59.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P824200

CATALOG NUMBER: CB2-D-055U-120D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P824200

CATALOG NUMBER: CB2-D-055U-120D-835-1D-UNV-STD-W-4

**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   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 83 | 83 | 83 | 73 | 73 | 73 | 68 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 1   | 102 | 98  | 94  | 90  | 96  | 92  | 89  | 86  | 82 | 80 | 77 | 73 | 71 | 70 | 65 | 63 | 62 | 58 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 93  | 86  | 79  | 74  | 88  | 81  | 76  | 71  | 73 | 68 | 65 | 65 | 61 | 58 | 57 | 55 | 53 | 49 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 85  | 76  | 68  | 62  | 80  | 72  | 65  | 60  | 64 | 59 | 55 | 57 | 53 | 50 | 51 | 48 | 45 | 42 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 4   | 78  | 67  | 59  | 53  | 74  | 64  | 57  | 51  | 57 | 52 | 47 | 51 | 47 | 43 | 46 | 42 | 39 | 36 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 5   | 72  | 60  | 52  | 46  | 68  | 57  | 50  | 44  | 52 | 45 | 41 | 46 | 41 | 37 | 41 | 37 | 34 | 32 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 6   | 66  | 54  | 46  | 40  | 63  | 52  | 44  | 39  | 47 | 40 | 36 | 42 | 37 | 33 | 38 | 34 | 30 | 28 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 7   | 62  | 49  | 41  | 35  | 58  | 47  | 39  | 34  | 42 | 36 | 32 | 38 | 33 | 29 | 35 | 30 | 27 | 25 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 57  | 45  | 37  | 31  | 54  | 43  | 35  | 30  | 39 | 33 | 28 | 35 | 30 | 26 | 32 | 28 | 24 | 22 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 54  | 41  | 33  | 28  | 51  | 39  | 32  | 27  | 36 | 30 | 26 | 33 | 27 | 24 | 29 | 25 | 22 | 20 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 50  | 38  | 30  | 26  | 47  | 36  | 29  | 25  | 33 | 27 | 23 | 30 | 25 | 22 | 27 | 23 | 20 | 18 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 35845 | 35845 | 35845 |
| 5°  | 35541 | 35597 | 35844 |
| 10° | 35338 | 35255 | 35227 |
| 15° | 34780 | 34552 | 34268 |
| 20° | 34233 | 33473 | 33006 |
| 25° | 33312 | 32373 | 31465 |
| 30° | 32390 | 30964 | 29792 |
| 35° | 31328 | 29519 | 28111 |
| 40° | 30203 | 28162 | 26513 |
| 45° | 29073 | 26743 | 24959 |
| 50° | 28053 | 25362 | 23441 |
| 55° | 26798 | 23926 | 22012 |
| 60° | 25360 | 22562 | 20584 |
| 65° | 23833 | 21043 | 19160 |
| 70° | 22147 | 19341 | 17335 |
| 75° | 20148 | 17497 | 15693 |
| 80° | 18014 | 15336 | 14223 |
| 85° | 13849 | 12590 | 10392 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29073 cd/sqm



TEST NUMBER: P824200

CATALOG NUMBER: CB2-D-055U-120D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 193.5  | 2.8       |
| 10°-20°   | 539.5  | 7.7       |
| 20°-30°   | 775.7  | 11.0      |
| 30°-40°   | 871.9  | 12.4      |
| 40°-50°   | 842.2  | 12.0      |
| 50°-60°   | 711.6  | 10.1      |
| 60°-70°   | 511.1  | 7.3       |
| 70°-80°   | 279.4  | 4.0       |
| 80°-90°   | 74.2   | 1.1       |
| 90°-100°  | 33.7   | 0.5       |
| 100°-110° | 139.2  | 2.0       |
| 110°-120° | 252.6  | 3.6       |
| 120°-130° | 343.8  | 4.9       |
| 130°-140° | 396.9  | 5.6       |
| 140°-150° | 400.0  | 5.7       |
| 150°-160° | 345.2  | 4.9       |
| 160°-170° | 233.9  | 3.3       |
| 170°-180° | 82.5   | 1.2       |
| 0°-30°    | 1508.7 | 21.5      |
| 0°-40°    | 2380.6 | 33.9      |
| 0°-60°    | 3934.4 | 56.0      |
| 0°-90°    | 4799.1 | 68.3      |
| 90°-120°  | 425.6  | 6.1       |
| 90°-150°  | 1566.2 | 22.3      |
| 90°-180°  | 2228.0 | 31.7      |
| 0°-180°   | 7026.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2058 | 2058  | 2058 | 2058  | 2058 |      |
| 5°   | 2033 | 2060  | 2036 | 2036  | 2050 | 193  |
| 15°  | 1929 | 1946  | 1916 | 1897  | 1900 | 544  |
| 25°  | 1733 | 1735  | 1684 | 1646  | 1637 | 798  |
| 35°  | 1473 | 1456  | 1388 | 1334  | 1322 | 920  |
| 45°  | 1180 | 1156  | 1086 | 1029  | 1013 | 912  |
| 55°  | 882  | 850   | 788  | 739   | 725  | 789  |
| 65°  | 578  | 557   | 511  | 474   | 465  | 573  |
| 75°  | 299  | 281   | 260  | 239   | 233  | 320  |
| 85°  | 69   | 65    | 63   | 55    | 52   | 83   |
| 90°  | 0    | 0     | 1    | 0     | 1    | 4    |
| 95°  | 33   | 29    | 27   | 21    | 21   | 38   |
| 105° | 138  | 136   | 132  | 125   | 123  | 146  |
| 115° | 262  | 261   | 256  | 249   | 248  | 258  |
| 125° | 389  | 393   | 385  | 377   | 378  | 347  |
| 135° | 518  | 524   | 516  | 506   | 510  | 399  |
| 145° | 643  | 650   | 640  | 632   | 637  | 401  |
| 155° | 752  | 759   | 748  | 744   | 750  | 346  |
| 165° | 831  | 839   | 829  | 824   | 831  | 234  |
| 175° | 870  | 880   | 868  | 863   | 865  | 83   |
| 180° | 874  | 874   | 874  | 874   | 874  |      |

TEST NUMBER: P824200

CATALOG NUMBER: CB2-D-055U-120D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2058.0 | 2058.0 | 2058.0 | 2058.0 | 2058.0 |
| 2.5°   | 2044.1 | 2068.8 | 2050.5 | 2053.1 | 2056.8 |
| 5°     | 2032.8 | 2060.5 | 2036.0 | 2036.3 | 2050.1 |
| 7.5°   | 2018.3 | 2044.5 | 2013.6 | 2007.9 | 2020.8 |
| 10°    | 1998.1 | 2024.3 | 1993.4 | 1982.6 | 1991.8 |
| 12.5°  | 1971.7 | 1996.6 | 1966.9 | 1949.8 | 1957.8 |
| 15°    | 1928.8 | 1945.7 | 1916.2 | 1897.4 | 1900.4 |
| 17.5°  | 1882.2 | 1892.6 | 1850.0 | 1834.2 | 1831.1 |
| 20°    | 1846.9 | 1856.1 | 1805.9 | 1783.8 | 1780.7 |
| 22.5°  | 1801.5 | 1809.5 | 1756.7 | 1729.5 | 1725.2 |
| 25°    | 1733.4 | 1734.9 | 1684.5 | 1646.5 | 1637.3 |
| 27.5°  | 1662.2 | 1657.2 | 1601.3 | 1556.3 | 1544.3 |
| 30°    | 1610.5 | 1604.3 | 1539.6 | 1492.1 | 1481.3 |
| 32.5°  | 1555.0 | 1543.9 | 1479.1 | 1427.8 | 1417.0 |
| 35°    | 1473.4 | 1456.4 | 1388.3 | 1334.4 | 1322.1 |
| 37.5°  | 1386.4 | 1367.3 | 1300.4 | 1241.7 | 1227.9 |
| 40°    | 1328.4 | 1306.8 | 1238.6 | 1180.0 | 1166.1 |
| 42.5°  | 1270.4 | 1246.4 | 1176.8 | 1118.2 | 1103.1 |
| 45°    | 1180.3 | 1155.6 | 1085.7 | 1028.7 | 1013.3 |
| 47.5°  | 1094.6 | 1063.1 | 995.3  | 938.5  | 923.1  |
| 50°    | 1035.3 | 1001.4 | 936.0  | 880.5  | 865.1  |
| 52.5°  | 974.8  | 939.7  | 876.8  | 823.8  | 808.4  |
| 55°    | 882.5  | 850.1  | 787.9  | 738.7  | 724.9  |
| 57.5°  | 791.1  | 759.9  | 703.1  | 656.2  | 642.6  |
| 60°    | 728.0  | 701.8  | 647.7  | 603.3  | 590.9  |
| 62.5°  | 667.5  | 643.8  | 592.2  | 551.6  | 539.2  |
| 65°    | 578.3  | 556.8  | 510.6  | 474.1  | 464.9  |
| 67.5°  | 491.7  | 470.1  | 432.7  | 400.0  | 389.5  |
| 70°    | 434.9  | 413.4  | 379.8  | 349.6  | 340.4  |
| 72.5°  | 380.7  | 357.9  | 330.6  | 303.0  | 296.3  |
| 75°    | 299.4  | 280.9  | 260.0  | 239.4  | 233.2  |
| 77.5°  | 227.5  | 209.7  | 194.5  | 179.9  | 178.4  |
| 80°    | 179.6  | 164.2  | 152.9  | 143.4  | 141.8  |
| 82.5°  | 134.3  | 122.5  | 115.0  | 108.1  | 107.8  |
| 85°    | 69.3   | 64.7   | 63.0   | 55.1   | 52.0   |
| 87.5°  | 20.2   | 20.2   | 17.8   | 15.1   | 15.3   |
| 90°    | 0.0    | 0.0    | 0.7    | 0.0    | 0.7    |
| 92.5°  | 8.2    | 7.1    | 6.7    | 4.4    | 5.0    |
| 95°    | 32.7   | 28.7   | 27.3   | 21.1   | 21.1   |
| 97.5°  | 61.7   | 57.7   | 55.6   | 49.3   | 48.0   |
| 100°   | 82.4   | 78.5   | 76.3   | 69.5   | 68.1   |
| 102.5° | 103.7  | 101.8  | 98.1   | 90.7   | 89.4   |
| 105°   | 137.6  | 135.6  | 132.2  | 124.7  | 123.3  |
| 107.5° | 172.5  | 172.9  | 167.8  | 161.6  | 159.7  |
| 110°   | 197.6  | 196.9  | 192.8  | 186.7  | 185.3  |



TEST NUMBER: P824200

CATALOG NUMBER: CB2-D-055U-120D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 223.2 | 222.0 | 217.9 | 211.7 | 210.4 |
| 115°   | 261.7 | 261.0 | 256.2 | 248.7 | 248.0 |
| 117.5° | 298.2 | 300.3 | 294.6 | 286.7 | 286.5 |
| 120°   | 324.3 | 327.0 | 320.3 | 313.4 | 312.1 |
| 122.5° | 350.0 | 353.2 | 346.4 | 338.5 | 338.8 |
| 125°   | 389.1 | 393.1 | 385.0 | 376.8 | 377.5 |
| 127.5° | 426.8 | 431.8 | 424.2 | 415.9 | 416.7 |
| 130°   | 452.4 | 458.4 | 450.4 | 441.6 | 442.9 |
| 132.5° | 478.6 | 484.6 | 476.6 | 467.2 | 469.6 |
| 135°   | 518.5 | 524.5 | 515.8 | 506.4 | 509.7 |
| 137.5° | 556.2 | 562.2 | 552.6 | 544.7 | 548.7 |
| 140°   | 581.2 | 587.2 | 577.1 | 569.7 | 573.7 |
| 142.5° | 605.8 | 612.8 | 602.2 | 594.3 | 599.4 |
| 145°   | 642.6 | 649.9 | 639.8 | 632.4 | 637.1 |
| 147.5° | 677.4 | 684.8 | 674.6 | 667.5 | 672.3 |
| 150°   | 699.8 | 707.1 | 696.4 | 690.4 | 695.7 |
| 152.5° | 720.5 | 728.9 | 717.6 | 711.7 | 718.6 |
| 155°   | 751.6 | 758.9 | 748.2 | 743.5 | 749.5 |
| 157.5° | 778.6 | 787.1 | 776.4 | 772.4 | 777.2 |
| 160°   | 796.6 | 804.5 | 793.8 | 789.9 | 795.2 |
| 162.5° | 810.2 | 818.7 | 808.5 | 804.1 | 810.5 |
| 165°   | 830.6 | 839.3 | 828.6 | 824.0 | 831.3 |
| 167.5° | 846.7 | 855.9 | 845.1 | 840.3 | 847.8 |
| 170°   | 856.5 | 865.2 | 853.8 | 848.5 | 856.5 |
| 172.5° | 863.1 | 872.3 | 860.3 | 855.0 | 860.3 |
| 175°   | 870.1 | 879.5 | 868.1 | 862.7 | 864.7 |
| 177.5° | 873.5 | 881.0 | 871.9 | 867.2 | 873.5 |
| 180°   | 873.5 | 873.5 | 873.5 | 873.5 | 873.5 |



TEST NUMBER: P824200  
 CATALOG NUMBER: CB2-D-055U-120D-835-1D-UNV-STD-W-4

**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 | 20.98            | 22.02 | 21.77 | 22.82 | 23.81 | 19.88          | 20.92 | 20.67 | 21.72 | 22.71 |
|                 | 3H   | 22.64            | 23.57 | 23.44 | 24.38 | 25.40 | 21.42          | 22.35 | 22.22 | 23.17 | 24.18 |
|                 | 4H   | 23.28            | 24.15 | 24.09 | 24.98 | 26.00 | 22.00          | 22.88 | 22.82 | 23.70 | 24.73 |
|                 | 6H   | 23.69            | 24.50 | 24.51 | 25.33 | 26.37 | 22.38          | 23.19 | 23.21 | 24.02 | 25.06 |
|                 | 8H   | 23.84            | 24.61 | 24.68 | 25.46 | 26.50 | 22.53          | 23.30 | 23.37 | 24.15 | 25.19 |
|                 | 12H  | 23.92            | 24.65 | 24.76 | 25.50 | 26.56 | 22.60          | 23.33 | 23.44 | 24.18 | 25.24 |
| 4H              | 2H   | 21.41            | 22.29 | 22.23 | 23.11 | 24.14 | 20.54          | 21.41 | 21.36 | 22.24 | 23.26 |
|                 | 3H   | 23.30            | 24.03 | 24.13 | 24.88 | 25.93 | 22.29          | 23.02 | 23.12 | 23.88 | 24.92 |
|                 | 4H   | 24.05            | 24.71 | 24.89 | 25.57 | 26.64 | 22.97          | 23.63 | 23.81 | 24.49 | 25.56 |
|                 | 6H   | 24.58            | 25.15 | 25.44 | 26.03 | 27.11 | 23.45          | 24.03 | 24.31 | 24.91 | 25.98 |
|                 | 8H   | 24.79            | 25.32 | 25.65 | 26.20 | 27.28 | 23.65          | 24.18 | 24.51 | 25.06 | 26.14 |
|                 | 12H  | 24.90            | 25.38 | 25.78 | 26.28 | 27.37 | 23.74          | 24.23 | 24.63 | 25.12 | 26.21 |
| 8H              | 4H   | 24.22            | 24.76 | 25.08 | 25.63 | 26.72 | 23.25          | 23.79 | 24.12 | 24.67 | 25.75 |
|                 | 6H   | 24.87            | 25.31 | 25.76 | 26.23 | 27.31 | 23.87          | 24.31 | 24.76 | 25.23 | 26.31 |
|                 | 8H   | 25.16            | 25.55 | 26.06 | 26.46 | 27.57 | 24.14          | 24.54 | 25.05 | 25.45 | 26.55 |
|                 | 12H  | 25.34            | 25.69 | 26.25 | 26.59 | 27.75 | 24.30          | 24.65 | 25.21 | 25.55 | 26.71 |
| 12H             | 4H   | 24.21            | 24.69 | 25.09 | 25.58 | 26.68 | 23.27          | 23.75 | 24.15 | 24.64 | 25.74 |
|                 | 6H   | 24.90            | 25.29 | 25.80 | 26.20 | 27.30 | 23.93          | 24.33 | 24.83 | 25.24 | 26.34 |
|                 | 8H   | 25.22            | 25.57 | 26.13 | 26.47 | 27.63 | 24.24          | 24.59 | 25.15 | 25.49 | 26.65 |