

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: P1056955

Luminaire Tested: CB2-0U-055D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056955  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/31/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-0U-055D-840-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE  
2-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4358.4 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: Direct

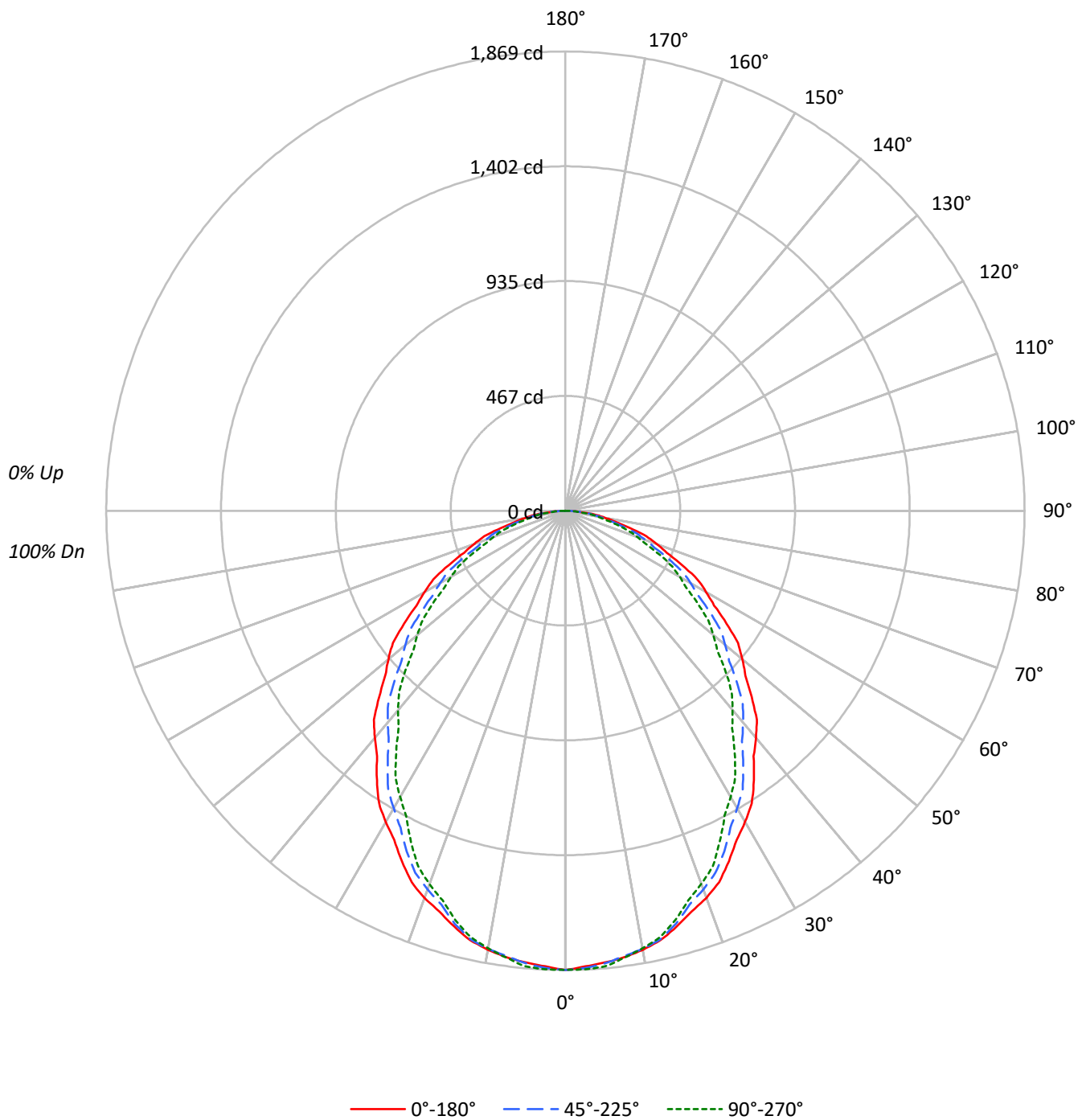
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 95  | 98  | 95  | 92  |  | 94  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  |  | 83  | 79  | 76  |  | 80  |
| 3   | 91  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 64  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  |  | 66  | 60  | 56  |  | 64  |
| 5   | 78  | 65  | 56  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  |  | 60  | 54  | 49  |  | 58  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  |  | 55  | 48  | 43  |  | 53  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  |  | 50  | 43  | 38  |  | 49  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 41  | 35  | 47  | 40  | 35  |  | 46  | 39  | 35  |  | 45  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  |  | 42  | 36  | 31  |  | 41  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  |  | 39  | 33  | 29  |  | 39  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16277 | 16277 | 16277 |
| 5°  | 16138 | 16164 | 16277 |
| 10° | 16047 | 16009 | 15996 |
| 15° | 15793 | 15689 | 15561 |
| 20° | 15544 | 15199 | 14988 |
| 25° | 15126 | 14701 | 14288 |
| 30° | 14708 | 14060 | 13527 |
| 35° | 14226 | 13404 | 12765 |
| 40° | 13715 | 12788 | 12039 |
| 45° | 13201 | 12143 | 11333 |
| 50° | 12738 | 11517 | 10645 |
| 55° | 12168 | 10865 | 9995  |
| 60° | 11516 | 10245 | 9348  |
| 65° | 10823 | 9555  | 8700  |
| 70° | 10058 | 8782  | 7870  |
| 75° | 9149  | 7944  | 7127  |
| 80° | 8180  | 6961  | 6459  |
| 85° | 6295  | 5715  | 4716  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 13201 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.8  | 4.0       |
| 10°-20°   | 489.9  | 11.2      |
| 20°-30°   | 704.5  | 16.2      |
| 30°-40°   | 791.8  | 18.2      |
| 40°-50°   | 764.9  | 17.5      |
| 50°-60°   | 646.3  | 14.8      |
| 60°-70°   | 464.2  | 10.7      |
| 70°-80°   | 253.7  | 5.8       |
| 80°-90°   | 67.4   | 1.5       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1370.2 | 31.4      |
| 0°-40°    | 2162.0 | 49.6      |
| 0°-60°    | 3573.1 | 82.0      |
| 0°-90°    | 4358.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4358.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1869 | 1869  | 1869 | 1869  | 1869 |      |
| 5°  | 1846 | 1871  | 1849 | 1849  | 1862 | 175  |
| 15° | 1752 | 1767  | 1740 | 1723  | 1726 | 494  |
| 25° | 1574 | 1576  | 1530 | 1495  | 1487 | 725  |
| 35° | 1338 | 1323  | 1261 | 1212  | 1201 | 836  |
| 45° | 1072 | 1050  | 986  | 934   | 920  | 828  |
| 55° | 801  | 772   | 716  | 671   | 658  | 716  |
| 65° | 525  | 506   | 464  | 431   | 422  | 521  |
| 75° | 272  | 255   | 236  | 217   | 212  | 291  |
| 85° | 63   | 59    | 57   | 50    | 47   | 77   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 |
| 2.5°  | 1856.4 | 1878.8 | 1862.2 | 1864.5 | 1867.9 |
| 5°    | 1846.1 | 1871.3 | 1849.0 | 1849.3 | 1861.9 |
| 7.5°  | 1833.0 | 1856.8 | 1828.7 | 1823.5 | 1835.3 |
| 10°   | 1814.6 | 1838.4 | 1810.4 | 1800.5 | 1808.9 |
| 12.5° | 1790.6 | 1813.3 | 1786.3 | 1770.7 | 1778.0 |
| 15°   | 1751.7 | 1767.1 | 1740.2 | 1723.1 | 1725.9 |
| 17.5° | 1709.3 | 1718.8 | 1680.1 | 1665.7 | 1662.9 |
| 20°   | 1677.3 | 1685.7 | 1640.0 | 1620.0 | 1617.2 |
| 22.5° | 1636.0 | 1643.3 | 1595.4 | 1570.7 | 1566.8 |
| 25°   | 1574.2 | 1575.6 | 1529.9 | 1495.3 | 1486.9 |
| 27.5° | 1509.5 | 1505.1 | 1454.3 | 1413.4 | 1402.5 |
| 30°   | 1462.6 | 1457.0 | 1398.2 | 1355.0 | 1345.2 |
| 32.5° | 1412.2 | 1402.1 | 1343.2 | 1296.6 | 1286.9 |
| 35°   | 1338.1 | 1322.7 | 1260.8 | 1211.9 | 1200.7 |
| 37.5° | 1259.1 | 1241.7 | 1181.0 | 1127.7 | 1115.1 |
| 40°   | 1206.4 | 1186.8 | 1124.9 | 1071.6 | 1059.0 |
| 42.5° | 1153.8 | 1131.9 | 1068.8 | 1015.5 | 1001.8 |
| 45°   | 1071.9 | 1049.5 | 986.0  | 934.2  | 920.2  |
| 47.5° | 994.0  | 965.5  | 903.9  | 852.3  | 838.3  |
| 50°   | 940.2  | 909.5  | 850.1  | 799.7  | 785.7  |
| 52.5° | 885.3  | 853.4  | 796.3  | 748.2  | 734.2  |
| 55°   | 801.4  | 772.0  | 715.6  | 670.9  | 658.3  |
| 57.5° | 718.4  | 690.2  | 638.6  | 595.9  | 583.6  |
| 60°   | 661.2  | 637.4  | 588.2  | 547.9  | 536.7  |
| 62.5° | 606.2  | 584.7  | 537.8  | 500.9  | 489.7  |
| 65°   | 525.2  | 505.6  | 463.7  | 430.6  | 422.2  |
| 67.5° | 446.5  | 426.9  | 393.0  | 363.3  | 353.8  |
| 70°   | 395.0  | 375.4  | 344.9  | 317.5  | 309.1  |
| 72.5° | 345.8  | 325.0  | 300.2  | 275.2  | 269.0  |
| 75°   | 271.9  | 255.1  | 236.1  | 217.4  | 211.8  |
| 77.5° | 206.7  | 190.4  | 176.6  | 163.4  | 162.0  |
| 80°   | 163.1  | 149.2  | 138.8  | 130.2  | 128.8  |
| 82.5° | 121.9  | 111.3  | 104.5  | 98.2   | 97.9   |
| 85°   | 63.0   | 58.8   | 57.2   | 50.0   | 47.2   |
| 87.5° | 18.3   | 18.3   | 16.0   | 13.7   | 13.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)