

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: P1056994

Luminaire Tested: CB2-B-085U-085D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056994  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-119-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/31/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-B-085U-085D-840-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15534.1 lumens  
Efficiency: N/A  
Efficacy: 137.0 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: General Diffuse

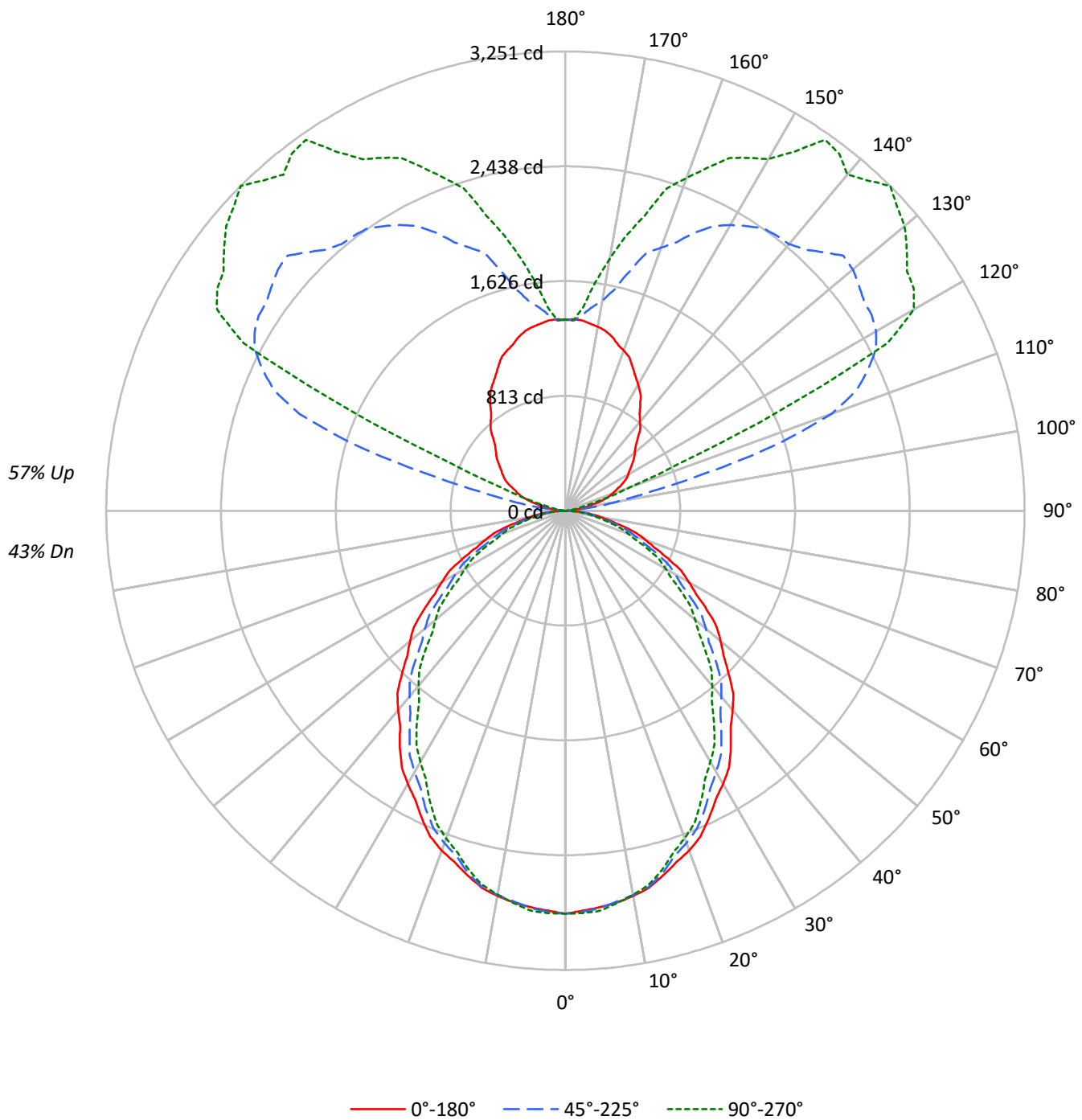
Input Watts (W): 113.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 70 | 67 | 65 | 56 | 55 | 53 | 44 | 43 | 42 | 36 |
| 2   | 88  | 81  | 75  | 70  | 80 | 74 | 69 | 64 | 61 | 58 | 54 | 50 | 47 | 45 | 39 | 37 | 36 | 31 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 35 | 32 | 31 | 26 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 39 | 36 | 33 | 31 | 29 | 26 | 23 |
| 5   | 67  | 56  | 48  | 42  | 61 | 52 | 45 | 39 | 43 | 38 | 34 | 35 | 31 | 28 | 28 | 25 | 23 | 20 |
| 6   | 62  | 50  | 42  | 37  | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 25 | 23 | 20 | 17 |
| 7   | 57  | 45  | 38  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 16 |
| 8   | 53  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 21 | 19 | 16 | 14 |
| 9   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 24 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10  | 46  | 34  | 27  | 23  | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 18 | 16 | 13 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 24844 | 24844 | 24844 |
| 5°  | 24634 | 24672 | 24844 |
| 10° | 24493 | 24436 | 24416 |
| 15° | 24106 | 23948 | 23751 |
| 20° | 23726 | 23200 | 22876 |
| 25° | 23089 | 22438 | 21808 |
| 30° | 22450 | 21461 | 20648 |
| 35° | 21713 | 20460 | 19484 |
| 40° | 20935 | 19518 | 18377 |
| 45° | 20150 | 18537 | 17299 |
| 50° | 19444 | 17579 | 16247 |
| 55° | 18573 | 16583 | 15256 |
| 60° | 17578 | 15637 | 14268 |
| 65° | 16520 | 14583 | 13279 |
| 70° | 15351 | 13403 | 12013 |
| 75° | 13964 | 12127 | 10878 |
| 80° | 12488 | 10627 | 9860  |
| 85° | 9602  | 8733  | 7204  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20150 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 268.3   | 1.7       |
| 10°-20°   | 747.8   | 4.8       |
| 20°-30°   | 1075.3  | 6.9       |
| 30°-40°   | 1208.6  | 7.8       |
| 40°-50°   | 1167.5  | 7.5       |
| 50°-60°   | 986.4   | 6.4       |
| 60°-70°   | 708.5   | 4.6       |
| 70°-80°   | 387.3   | 2.5       |
| 80°-90°   | 102.9   | 0.7       |
| 90°-100°  | 101.3   | 0.7       |
| 100°-110° | 627.2   | 4.0       |
| 110°-120° | 1581.7  | 10.2      |
| 120°-130° | 1901.3  | 12.2      |
| 130°-140° | 1723.9  | 11.1      |
| 140°-150° | 1374.6  | 8.8       |
| 150°-160° | 937.7   | 6.0       |
| 160°-170° | 495.9   | 3.2       |
| 170°-180° | 138.0   | 0.9       |
| 0°-30°    | 2091.4  | 13.5      |
| 0°-40°    | 3300.0  | 21.2      |
| 0°-60°    | 5453.9  | 35.1      |
| 0°-90°    | 6652.5  | 42.8      |
| 90°-120°  | 2310.1  | 14.9      |
| 90°-150°  | 7309.9  | 47.1      |
| 90°-180°  | 8882.0  | 57.2      |
| 0°-180°   | 15534.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2853 | 2853  | 2853 | 2853  | 2853 |      |
| 5°   | 2818 | 2856  | 2822 | 2823  | 2842 | 268  |
| 15°  | 2674 | 2697  | 2656 | 2630  | 2634 | 754  |
| 25°  | 2403 | 2405  | 2335 | 2282  | 2270 | 1106 |
| 35°  | 2042 | 2019  | 1924 | 1850  | 1833 | 1276 |
| 45°  | 1636 | 1602  | 1505 | 1426  | 1405 | 1264 |
| 55°  | 1223 | 1178  | 1092 | 1024  | 1005 | 1094 |
| 65°  | 802  | 772   | 708  | 657   | 644  | 795  |
| 75°  | 415  | 389   | 360  | 332   | 323  | 444  |
| 85°  | 96   | 90    | 87   | 76    | 72   | 114  |
| 90°  | 0    | 0     | 0    | 0     | 0    | 6    |
| 95°  | 52   | 132   | 41   | 29    | 29   | 66   |
| 105° | 256  | 718   | 1037 | 260   | 175  | 269  |
| 115° | 443  | 978   | 2365 | 2202  | 1678 | 434  |
| 125° | 577  | 1186  | 2581 | 2937  | 2954 | 516  |
| 135° | 722  | 1315  | 2587 | 3029  | 3251 | 562  |
| 145° | 926  | 1382  | 2441 | 2942  | 3204 | 579  |
| 155° | 1124 | 1409  | 2173 | 2619  | 2756 | 518  |
| 165° | 1276 | 1396  | 1754 | 2065  | 2162 | 358  |
| 175° | 1352 | 1369  | 1392 | 1416  | 1445 | 128  |
| 180° | 1352 | 1352  | 1352 | 1352  | 1352 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2852.8 | 2852.8 | 2852.8 | 2852.8 | 2852.8 |
| 2.5°   | 2833.6 | 2867.8 | 2842.4 | 2846.0 | 2851.1 |
| 5°     | 2817.9 | 2856.3 | 2822.3 | 2822.7 | 2841.9 |
| 7.5°   | 2797.8 | 2834.1 | 2791.2 | 2783.3 | 2801.3 |
| 10°    | 2769.8 | 2806.1 | 2763.3 | 2748.3 | 2761.1 |
| 12.5°  | 2733.1 | 2767.7 | 2726.6 | 2702.8 | 2713.9 |
| 15°    | 2673.7 | 2697.2 | 2656.2 | 2630.1 | 2634.4 |
| 17.5°  | 2609.1 | 2623.6 | 2564.5 | 2542.6 | 2538.3 |
| 20°    | 2560.1 | 2572.9 | 2503.3 | 2472.7 | 2468.4 |
| 22.5°  | 2497.2 | 2508.3 | 2435.2 | 2397.5 | 2391.5 |
| 25°    | 2402.9 | 2405.0 | 2335.1 | 2282.4 | 2269.6 |
| 27.5°  | 2304.1 | 2297.3 | 2219.8 | 2157.4 | 2140.7 |
| 30°    | 2232.5 | 2223.9 | 2134.2 | 2068.3 | 2053.3 |
| 32.5°  | 2155.6 | 2140.2 | 2050.3 | 1979.2 | 1964.2 |
| 35°    | 2042.4 | 2018.9 | 1924.5 | 1849.8 | 1832.7 |
| 37.5°  | 1921.8 | 1895.4 | 1802.6 | 1721.3 | 1702.1 |
| 40°    | 1841.5 | 1811.6 | 1716.9 | 1635.7 | 1616.5 |
| 42.5°  | 1761.1 | 1727.8 | 1631.3 | 1550.0 | 1529.1 |
| 45°    | 1636.1 | 1601.9 | 1505.1 | 1425.9 | 1404.6 |
| 47.5°  | 1517.3 | 1473.7 | 1379.7 | 1301.0 | 1279.6 |
| 50°    | 1435.2 | 1388.2 | 1297.5 | 1220.6 | 1199.2 |
| 52.5°  | 1351.3 | 1302.6 | 1215.4 | 1142.0 | 1120.6 |
| 55°    | 1223.3 | 1178.4 | 1092.2 | 1024.1 | 1004.8 |
| 57.5°  | 1096.6 | 1053.4 | 974.7  | 909.6  | 890.8  |
| 60°    | 1009.2 | 972.9  | 897.8  | 836.2  | 819.2  |
| 62.5°  | 925.3  | 892.4  | 820.9  | 764.6  | 747.5  |
| 65°    | 801.7  | 771.8  | 707.7  | 657.2  | 644.4  |
| 67.5°  | 681.5  | 651.6  | 599.8  | 554.5  | 540.0  |
| 70°    | 602.9  | 573.0  | 526.4  | 484.6  | 471.8  |
| 72.5°  | 527.8  | 496.1  | 458.3  | 420.1  | 410.7  |
| 75°    | 415.0  | 389.4  | 360.4  | 331.8  | 323.3  |
| 77.5°  | 315.4  | 290.7  | 269.6  | 249.4  | 247.3  |
| 80°    | 249.0  | 227.7  | 211.9  | 198.7  | 196.6  |
| 82.5°  | 186.1  | 169.9  | 159.5  | 149.8  | 149.4  |
| 85°    | 96.1   | 89.7   | 87.4   | 76.4   | 72.1   |
| 87.5°  | 28.0   | 28.0   | 24.5   | 21.0   | 21.0   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 14.0   | 23.1   | 9.3    | 9.3    | 9.3    |
| 95°    | 52.4   | 132.2  | 40.8   | 29.1   | 29.1   |
| 97.5°  | 109.5  | 316.9  | 220.2  | 59.2   | 51.3   |
| 100°   | 151.5  | 459.1  | 378.7  | 87.0   | 69.9   |
| 102.5° | 193.4  | 583.1  | 597.8  | 138.0  | 107.2  |
| 105°   | 256.4  | 717.8  | 1037.1 | 260.2  | 174.8  |
| 107.5° | 318.1  | 805.7  | 1589.4 | 537.0  | 323.9  |
| 110°   | 355.4  | 856.7  | 2004.2 | 837.2  | 501.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 392.7  | 907.7  | 2232.6 | 1342.0 | 864.6  |
| 115°   | 442.8  | 978.3  | 2365.4 | 2202.0 | 1677.9 |
| 117.5° | 484.7  | 1043.0 | 2479.6 | 2723.2 | 2569.4 |
| 120°   | 512.7  | 1093.8 | 2540.2 | 2797.7 | 2849.0 |
| 122.5° | 540.7  | 1130.9 | 2572.8 | 2826.7 | 2923.6 |
| 125°   | 576.8  | 1186.3 | 2581.0 | 2936.8 | 2953.9 |
| 127.5° | 612.9  | 1228.2 | 2619.5 | 3038.0 | 3045.9 |
| 130°   | 640.9  | 1256.1 | 2656.7 | 3071.8 | 3134.5 |
| 132.5° | 673.5  | 1279.6 | 2670.7 | 3091.2 | 3185.8 |
| 135°   | 722.4  | 1314.9 | 2586.8 | 3028.8 | 3251.0 |
| 137.5° | 784.2  | 1340.2 | 2506.4 | 3027.1 | 3170.6 |
| 140°   | 821.5  | 1345.6 | 2464.5 | 3094.0 | 3105.4 |
| 142.5° | 863.4  | 1360.2 | 2455.2 | 3086.6 | 3184.6 |
| 145°   | 926.4  | 1382.1 | 2441.2 | 2942.4 | 3204.4 |
| 147.5° | 989.3  | 1396.0 | 2387.6 | 2783.1 | 3012.1 |
| 150°   | 1031.2 | 1401.5 | 2336.3 | 2729.9 | 2872.3 |
| 152.5° | 1073.2 | 1407.0 | 2271.1 | 2696.8 | 2816.4 |
| 155°   | 1124.5 | 1409.3 | 2173.2 | 2619.1 | 2755.8 |
| 157.5° | 1178.1 | 1402.5 | 2055.5 | 2477.2 | 2626.4 |
| 160°   | 1206.0 | 1394.0 | 1980.9 | 2374.2 | 2505.3 |
| 162.5° | 1234.0 | 1390.1 | 1915.7 | 2239.6 | 2393.4 |
| 165°   | 1275.9 | 1395.6 | 1753.7 | 2064.7 | 2161.5 |
| 167.5° | 1303.9 | 1390.5 | 1602.2 | 1857.0 | 1993.7 |
| 170°   | 1322.5 | 1390.9 | 1509.0 | 1698.0 | 1811.9 |
| 172.5° | 1336.5 | 1368.4 | 1453.1 | 1552.7 | 1630.2 |
| 175°   | 1351.7 | 1368.8 | 1392.5 | 1416.4 | 1444.9 |
| 177.5° | 1356.3 | 1365.5 | 1347.0 | 1342.6 | 1351.7 |
| 180°   | 1351.7 | 1351.7 | 1351.7 | 1351.7 | 1351.7 |

(END OF REPORT)