

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: CORELITE

Report Number: P219965

Luminaire Tested: **R3-WG-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35870)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-3L35-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3707.4 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

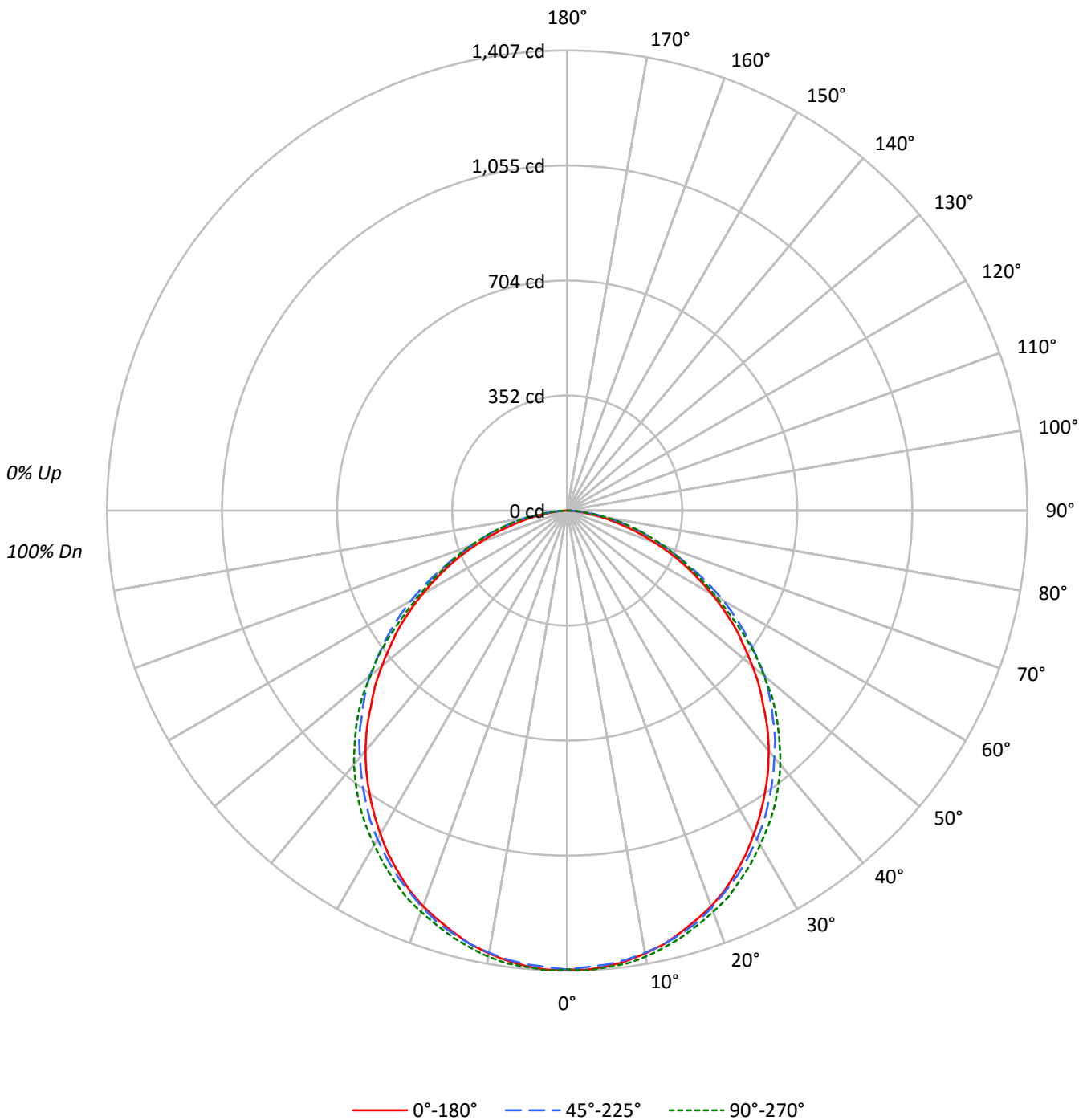
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |    |     |   |  | 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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 109 | 105 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |   |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |    |    |    |    | 71  |   |  |   |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |    |    |    |    | 60  |   |  |   |
| 4   | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |    |    |    |    | 52  |   |  |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |    |    | 39  |   |  |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |    |    | 31  |   |  |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |    |    | 28  |   |  |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 32  | 27  | 26  |    |    |    |    | 26  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3776 | 3776 | 3776 |
| 5°  | 3780 | 3763 | 3785 |
| 10° | 3757 | 3751 | 3785 |
| 15° | 3723 | 3735 | 3763 |
| 20° | 3688 | 3699 | 3740 |
| 25° | 3625 | 3655 | 3709 |
| 30° | 3548 | 3604 | 3667 |
| 35° | 3464 | 3537 | 3631 |
| 40° | 3370 | 3462 | 3562 |
| 45° | 3234 | 3380 | 3457 |
| 50° | 3099 | 3303 | 3286 |
| 55° | 2950 | 3149 | 3082 |
| 60° | 2750 | 2969 | 2827 |
| 65° | 2531 | 2699 | 2634 |
| 70° | 2234 | 2441 | 2473 |
| 75° | 1834 | 2214 | 2235 |
| 80° | 1446 | 1886 | 1886 |
| 85° | 1000 | 1377 | 1254 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.8  | 3.6       |
| 10°-20°   | 379.0  | 10.2      |
| 20°-30°   | 568.7  | 15.3      |
| 30°-40°   | 674.6  | 18.2      |
| 40°-50°   | 681.8  | 18.4      |
| 50°-60°   | 586.2  | 15.8      |
| 60°-70°   | 413.7  | 11.2      |
| 70°-80°   | 220.5  | 5.9       |
| 80°-90°   | 50.0   | 1.3       |
| 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°    | 1080.5 | 29.1      |
| 0°-40°    | 1755.1 | 47.3      |
| 0°-60°    | 3023.2 | 81.5      |
| 0°-90°    | 3707.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3707.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1403 | 1403  | 1403 | 1403  | 1403 |      |
| 5°  | 1399 | 1397  | 1393 | 1401  | 1401 | 133  |
| 15° | 1336 | 1340  | 1340 | 1351  | 1351 | 377  |
| 25° | 1221 | 1225  | 1231 | 1249  | 1249 | 562  |
| 35° | 1054 | 1063  | 1077 | 1099  | 1105 | 659  |
| 45° | 850  | 864   | 888  | 904   | 908  | 657  |
| 55° | 629  | 647   | 671  | 669   | 657  | 560  |
| 65° | 398  | 418   | 424  | 420   | 414  | 393  |
| 75° | 176  | 201   | 213  | 221   | 215  | 192  |
| 85° | 32   | 38    | 45   | 41    | 41   | 41   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1403.3 | 1403.3 | 1403.3 | 1403.3 | 1403.3 |
| 2.5°  | 1405.3 | 1403.3 | 1397.2 | 1405.3 | 1407.4 |
| 5°    | 1399.3 | 1397.2 | 1393.2 | 1401.3 | 1401.3 |
| 7.5°  | 1389.1 | 1389.1 | 1385.1 | 1395.2 | 1397.2 |
| 10°   | 1374.9 | 1374.9 | 1372.9 | 1383.0 | 1385.1 |
| 12.5° | 1358.7 | 1360.7 | 1358.7 | 1368.8 | 1368.8 |
| 15°   | 1336.4 | 1340.5 | 1340.5 | 1350.6 | 1350.6 |
| 17.5° | 1312.1 | 1316.1 | 1320.2 | 1328.3 | 1328.3 |
| 20°   | 1287.7 | 1287.7 | 1291.8 | 1303.9 | 1306.0 |
| 22.5° | 1257.3 | 1259.3 | 1261.4 | 1277.6 | 1281.6 |
| 25°   | 1220.8 | 1224.9 | 1230.9 | 1249.2 | 1249.2 |
| 27.5° | 1184.3 | 1190.4 | 1196.5 | 1214.7 | 1216.7 |
| 30°   | 1141.7 | 1147.8 | 1160.0 | 1176.2 | 1180.2 |
| 32.5° | 1099.1 | 1105.2 | 1121.4 | 1137.7 | 1143.7 |
| 35°   | 1054.5 | 1062.6 | 1076.8 | 1099.1 | 1105.2 |
| 37.5° | 1007.9 | 1014.0 | 1032.2 | 1056.5 | 1060.6 |
| 40°   | 959.2  | 965.3  | 985.6  | 1007.9 | 1014.0 |
| 42.5° | 906.5  | 914.6  | 941.0  | 961.2  | 961.2  |
| 45°   | 849.7  | 863.9  | 888.2  | 904.4  | 908.5  |
| 47.5° | 797.0  | 807.1  | 839.6  | 853.8  | 851.7  |
| 50°   | 740.2  | 754.4  | 788.9  | 792.9  | 784.8  |
| 52.5° | 681.4  | 699.6  | 728.0  | 732.1  | 726.0  |
| 55°   | 628.7  | 646.9  | 671.2  | 669.2  | 657.0  |
| 57.5° | 569.8  | 590.1  | 612.4  | 600.3  | 588.1  |
| 60°   | 511.0  | 531.3  | 551.6  | 533.3  | 525.2  |
| 62.5° | 452.2  | 474.5  | 488.7  | 470.5  | 468.4  |
| 65°   | 397.5  | 417.8  | 423.8  | 419.8  | 413.7  |
| 67.5° | 340.7  | 363.0  | 367.1  | 365.0  | 363.0  |
| 70°   | 283.9  | 308.2  | 310.3  | 314.3  | 314.3  |
| 72.5° | 229.2  | 253.5  | 261.6  | 267.7  | 263.6  |
| 75°   | 176.4  | 200.8  | 212.9  | 221.0  | 215.0  |
| 77.5° | 133.8  | 152.1  | 168.3  | 168.3  | 168.3  |
| 80°   | 93.3   | 109.5  | 121.7  | 123.7  | 121.7  |
| 82.5° | 58.8   | 71.0   | 81.1   | 77.1   | 77.1   |
| 85°   | 32.4   | 38.5   | 44.6   | 40.6   | 40.6   |
| 87.5° | 12.2   | 14.2   | 12.2   | 10.1   | 8.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)