

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: P220016

Luminaire Tested: **Z3-WG-3L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-3L30-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3579.5 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

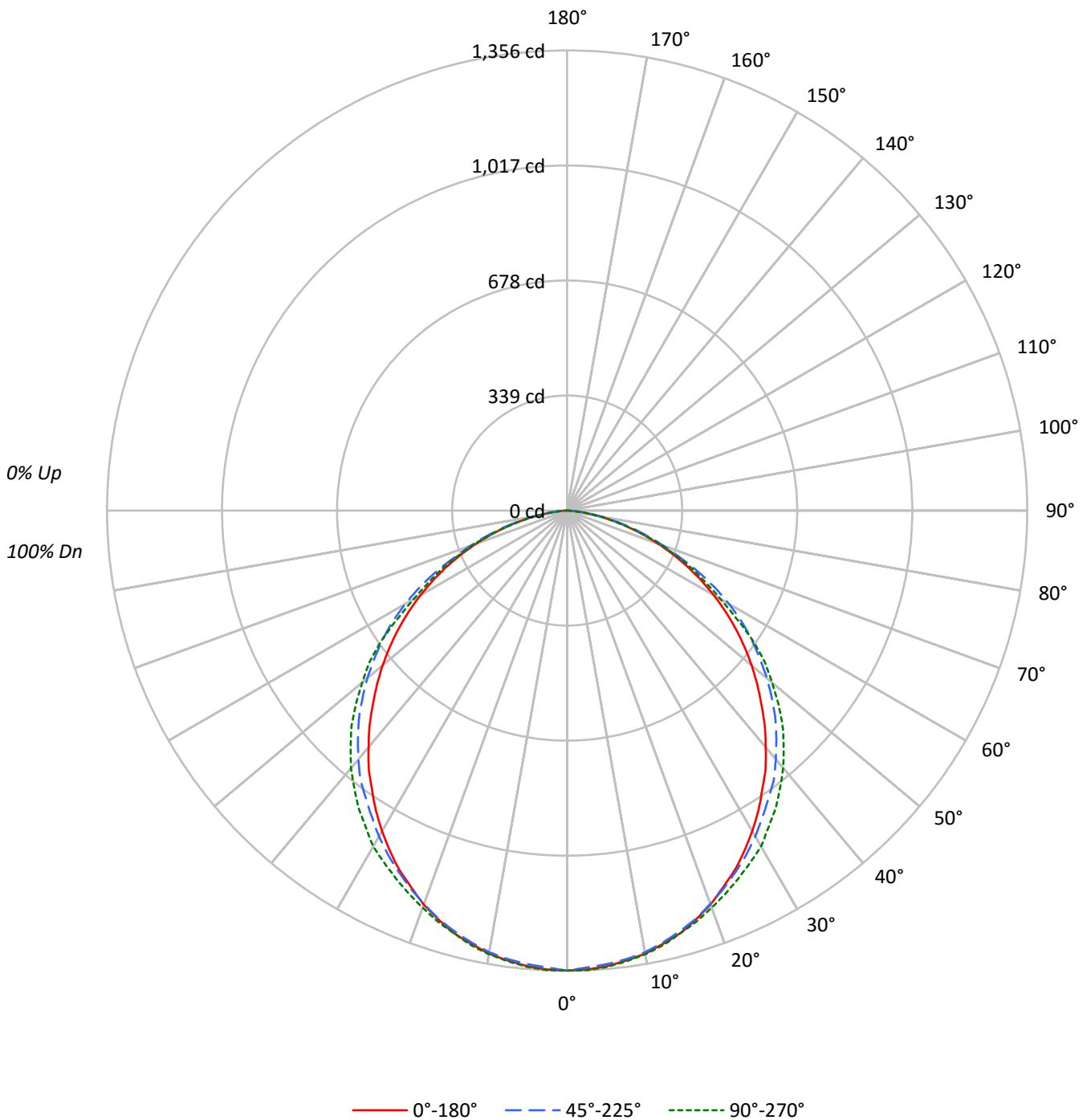
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |    |    |    |     |  |  |  | 20 |  |  |  |  |  |  |  |  |    |   |
| 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 | 103 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    |    |    | 85  |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 73  | 71  |    |    |    |    |    | 71  |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 66  | 63  | 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  | 52  | 44  | 38  | 64  | 52  | 43  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |    |    |    | 35  |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 31  |    |    |    |    |    | 31  |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |    |    |    | 28  |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 54  | 41  | 33  | 28  | 52  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |    |    |    | 25  |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3648 | 3648 | 3648 |
| 5°  | 3640 | 3624 | 3645 |
| 10° | 3622 | 3611 | 3627 |
| 15° | 3592 | 3575 | 3592 |
| 20° | 3537 | 3531 | 3566 |
| 25° | 3471 | 3489 | 3548 |
| 30° | 3389 | 3446 | 3551 |
| 35° | 3294 | 3399 | 3518 |
| 40° | 3198 | 3360 | 3480 |
| 45° | 3083 | 3304 | 3419 |
| 50° | 2972 | 3215 | 3299 |
| 55° | 2841 | 3114 | 3133 |
| 60° | 2687 | 2968 | 2806 |
| 65° | 2490 | 2707 | 2592 |
| 70° | 2240 | 2367 | 2304 |
| 75° | 1897 | 2022 | 1918 |
| 80° | 1491 | 1554 | 1429 |
| 85° | 991  | 929  | 744  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.9  | 3.6       |
| 10°-20°   | 363.2  | 10.1      |
| 20°-30°   | 543.6  | 15.2      |
| 30°-40°   | 648.7  | 18.1      |
| 40°-50°   | 662.6  | 18.5      |
| 50°-60°   | 580.4  | 16.2      |
| 60°-70°   | 408.0  | 11.4      |
| 70°-80°   | 204.9  | 5.7       |
| 80°-90°   | 40.2   | 1.1       |
| 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°    | 1034.6 | 28.9      |
| 0°-40°    | 1683.4 | 47.0      |
| 0°-60°    | 2926.4 | 81.8      |
| 0°-90°    | 3579.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3579.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1356 | 1356  | 1356 | 1356  | 1356 |      |
| 5°  | 1348 | 1348  | 1342 | 1350  | 1350 | 128  |
| 15° | 1289 | 1287  | 1283 | 1291  | 1289 | 363  |
| 25° | 1169 | 1171  | 1175 | 1191  | 1195 | 538  |
| 35° | 1003 | 1011  | 1035 | 1063  | 1071 | 628  |
| 45° | 810  | 826   | 868  | 892   | 898  | 626  |
| 55° | 606  | 636   | 664  | 674   | 668  | 541  |
| 65° | 391  | 415   | 425  | 409   | 407  | 387  |
| 75° | 182  | 200   | 194  | 188   | 184  | 196  |
| 85° | 32   | 34    | 30   | 26    | 24   | 41   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1355.5 | 1355.5 | 1355.5 | 1355.5 | 1355.5 |
| 2.5°  | 1353.5 | 1353.5 | 1347.5 | 1355.5 | 1355.5 |
| 5°    | 1347.5 | 1347.5 | 1341.5 | 1349.5 | 1349.5 |
| 7.5°  | 1337.4 | 1337.4 | 1333.4 | 1339.5 | 1339.5 |
| 10°   | 1325.4 | 1325.4 | 1321.4 | 1327.4 | 1327.4 |
| 12.5° | 1307.4 | 1307.4 | 1303.4 | 1309.4 | 1311.4 |
| 15°   | 1289.3 | 1287.3 | 1283.3 | 1291.3 | 1289.3 |
| 17.5° | 1263.3 | 1263.3 | 1261.3 | 1269.3 | 1269.3 |
| 20°   | 1235.2 | 1237.2 | 1233.2 | 1243.2 | 1245.2 |
| 22.5° | 1201.1 | 1203.1 | 1205.1 | 1217.1 | 1221.1 |
| 25°   | 1169.0 | 1171.0 | 1175.0 | 1191.1 | 1195.1 |
| 27.5° | 1130.9 | 1134.9 | 1142.9 | 1161.0 | 1169.0 |
| 30°   | 1090.8 | 1096.8 | 1108.9 | 1132.9 | 1142.9 |
| 32.5° | 1048.7 | 1056.7 | 1070.8 | 1100.8 | 1104.8 |
| 35°   | 1002.6 | 1010.6 | 1034.7 | 1062.7 | 1070.8 |
| 37.5° | 960.5  | 968.5  | 1000.6 | 1024.6 | 1030.7 |
| 40°   | 910.3  | 922.4  | 956.5  | 982.5  | 990.6  |
| 42.5° | 862.2  | 874.3  | 912.4  | 938.4  | 944.4  |
| 45°   | 810.1  | 826.1  | 868.2  | 892.3  | 898.3  |
| 47.5° | 760.0  | 778.0  | 818.1  | 840.2  | 844.2  |
| 50°   | 709.8  | 729.9  | 768.0  | 790.0  | 788.0  |
| 52.5° | 657.7  | 679.8  | 715.8  | 733.9  | 733.9  |
| 55°   | 605.6  | 635.6  | 663.7  | 673.7  | 667.7  |
| 57.5° | 553.4  | 579.5  | 609.6  | 609.6  | 591.5  |
| 60°   | 499.3  | 525.4  | 551.4  | 535.4  | 521.3  |
| 62.5° | 445.1  | 471.2  | 489.3  | 465.2  | 461.2  |
| 65°   | 391.0  | 415.1  | 425.1  | 409.1  | 407.0  |
| 67.5° | 336.9  | 360.9  | 356.9  | 354.9  | 346.9  |
| 70°   | 284.7  | 306.8  | 300.8  | 296.8  | 292.8  |
| 72.5° | 234.6  | 254.7  | 246.6  | 240.6  | 238.6  |
| 75°   | 182.5  | 200.5  | 194.5  | 188.5  | 184.5  |
| 77.5° | 136.4  | 148.4  | 146.4  | 140.4  | 136.4  |
| 80°   | 96.2   | 104.3  | 100.3  | 96.2   | 92.2   |
| 82.5° | 58.1   | 66.2   | 62.2   | 56.1   | 54.1   |
| 85°   | 32.1   | 34.1   | 30.1   | 26.1   | 24.1   |
| 87.5° | 12.0   | 10.0   | 8.0    | 8.0    | 6.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)