

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: P383835

Luminaire Tested: **24ID-30-L835-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-30-L835-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

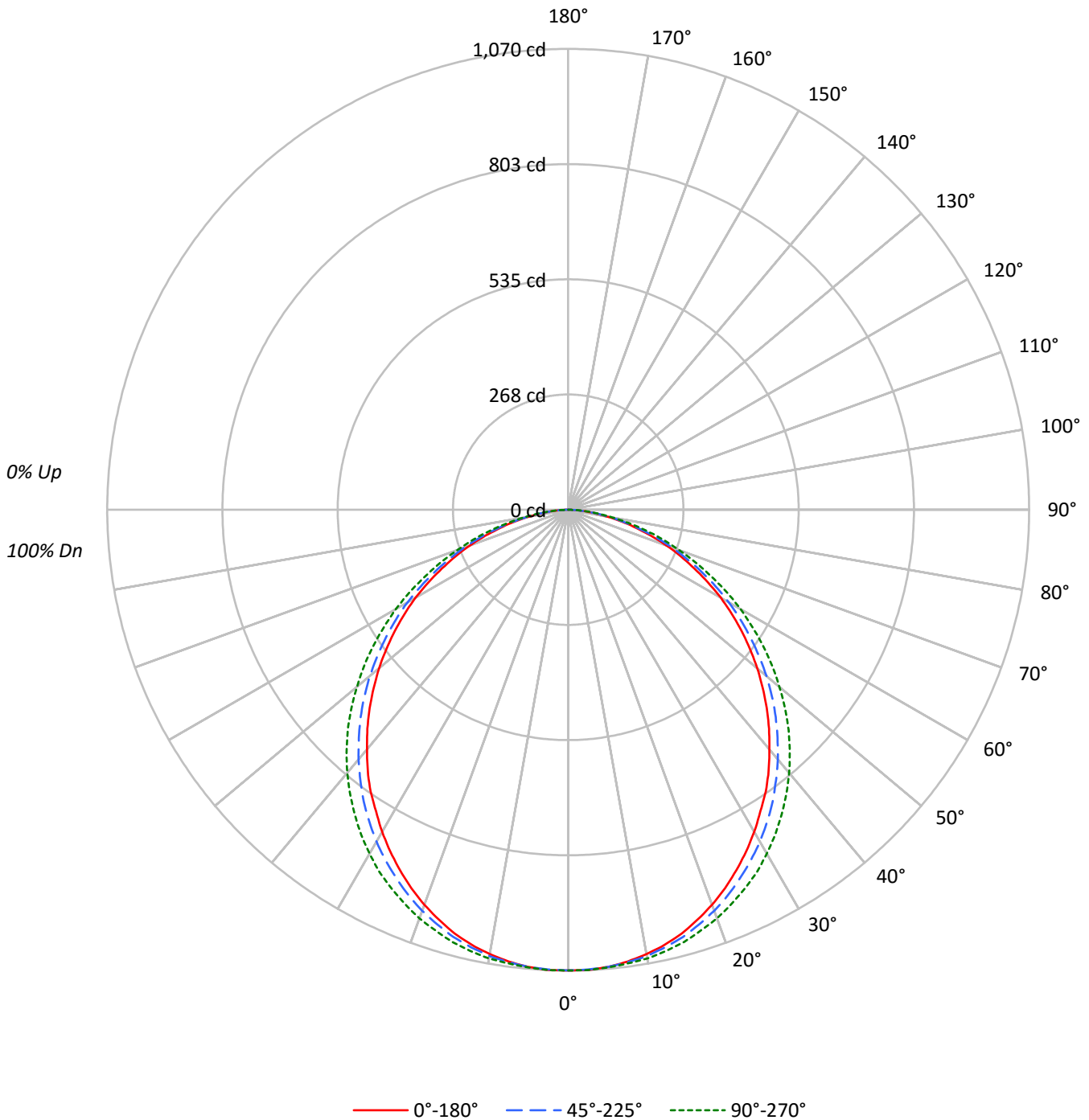
Lumens per Lamp: N/A  
Luminaire Lumens: 2905.5 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  | 82  | 78  | 74  | 79  | 76  | 73  | 71  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 67  | 63  | 70  | 66  | 62  | 60  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 46  | 44  |
| 6   | 71  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 32  | 31  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1439 | 1439 | 1439 |
| 5°  | 1439 | 1439 | 1441 |
| 10° | 1432 | 1438 | 1446 |
| 15° | 1419 | 1431 | 1447 |
| 20° | 1398 | 1419 | 1446 |
| 25° | 1371 | 1402 | 1441 |
| 30° | 1342 | 1383 | 1433 |
| 35° | 1313 | 1359 | 1419 |
| 40° | 1276 | 1330 | 1402 |
| 45° | 1240 | 1296 | 1377 |
| 50° | 1199 | 1257 | 1340 |
| 55° | 1152 | 1210 | 1296 |
| 60° | 1101 | 1160 | 1243 |
| 65° | 1028 | 1089 | 1163 |
| 70° | 954  | 1006 | 1075 |
| 75° | 851  | 897  | 973  |
| 80° | 714  | 748  | 815  |
| 85° | 542  | 542  | 610  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.3  | 3.5       |
| 10°-20°   | 289.7  | 10.0      |
| 20°-30°   | 435.6  | 15.0      |
| 30°-40°   | 518.2  | 17.8      |
| 40°-50°   | 527.3  | 18.1      |
| 50°-60°   | 464.1  | 16.0      |
| 60°-70°   | 340.4  | 11.7      |
| 70°-80°   | 184.8  | 6.4       |
| 80°-90°   | 44.1   | 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°    | 826.6  | 28.4      |
| 0°-40°    | 1344.8 | 46.3      |
| 0°-60°    | 2336.2 | 80.4      |
| 0°-90°    | 2905.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2905.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1070 | 1070  | 1070 | 1070  | 1070 |      |
| 5°  | 1065 | 1064  | 1065 | 1065  | 1067 | 101  |
| 15° | 1019 | 1020  | 1027 | 1033  | 1039 | 287  |
| 25° | 924  | 930   | 944  | 960   | 970  | 425  |
| 35° | 799  | 805   | 827  | 852   | 864  | 499  |
| 45° | 652  | 658   | 681  | 710   | 724  | 502  |
| 55° | 491  | 498   | 516  | 541   | 552  | 439  |
| 65° | 323  | 329   | 342  | 357   | 365  | 321  |
| 75° | 164  | 167   | 172  | 181   | 187  | 174  |
| 85° | 35   | 35    | 35   | 38    | 40   | 42   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1069.8 | 1069.8 | 1069.8 | 1069.8 | 1069.8 |
| 2.5°  | 1069.8 | 1068.4 | 1068.4 | 1068.4 | 1069.8 |
| 5°    | 1065.4 | 1064.0 | 1065.4 | 1065.4 | 1066.9 |
| 7.5°  | 1058.1 | 1056.7 | 1059.6 | 1061.1 | 1062.5 |
| 10°   | 1047.9 | 1047.9 | 1052.3 | 1055.2 | 1058.1 |
| 12.5° | 1034.8 | 1036.2 | 1040.6 | 1045.0 | 1049.4 |
| 15°   | 1018.7 | 1020.1 | 1027.4 | 1033.3 | 1039.1 |
| 17.5° | 998.2  | 1001.1 | 1009.9 | 1018.7 | 1024.5 |
| 20°   | 976.3  | 980.7  | 990.9  | 1002.6 | 1009.9 |
| 22.5° | 951.4  | 957.3  | 969.0  | 983.6  | 990.9  |
| 25°   | 923.7  | 929.5  | 944.1  | 960.2  | 970.4  |
| 27.5° | 894.4  | 901.8  | 917.8  | 936.8  | 948.5  |
| 30°   | 863.8  | 871.1  | 890.1  | 910.5  | 922.2  |
| 32.5° | 830.1  | 838.9  | 859.4  | 882.8  | 894.4  |
| 35°   | 799.4  | 805.3  | 827.2  | 852.1  | 863.8  |
| 37.5° | 764.4  | 771.7  | 792.1  | 818.4  | 831.6  |
| 40°   | 726.4  | 733.7  | 757.1  | 783.4  | 798.0  |
| 42.5° | 689.8  | 695.7  | 719.1  | 748.3  | 761.4  |
| 45°   | 651.8  | 657.7  | 681.1  | 710.3  | 723.5  |
| 47.5° | 612.4  | 619.7  | 641.6  | 669.4  | 682.5  |
| 50°   | 572.9  | 578.8  | 600.7  | 627.0  | 640.1  |
| 52.5° | 532.0  | 537.8  | 558.3  | 584.6  | 597.8  |
| 55°   | 491.1  | 498.4  | 515.9  | 540.8  | 552.5  |
| 57.5° | 450.1  | 457.5  | 473.5  | 496.9  | 507.1  |
| 60°   | 409.2  | 415.1  | 431.1  | 451.6  | 461.8  |
| 62.5° | 365.4  | 369.8  | 385.8  | 406.3  | 415.1  |
| 65°   | 323.0  | 328.8  | 342.0  | 356.6  | 365.4  |
| 67.5° | 283.5  | 286.5  | 298.1  | 314.2  | 320.1  |
| 70°   | 242.6  | 245.5  | 255.8  | 268.9  | 273.3  |
| 72.5° | 201.7  | 206.1  | 213.4  | 225.1  | 230.9  |
| 75°   | 163.7  | 166.6  | 172.5  | 181.2  | 187.1  |
| 77.5° | 127.2  | 128.6  | 133.0  | 140.3  | 144.7  |
| 80°   | 92.1   | 93.5   | 96.5   | 102.3  | 105.2  |
| 82.5° | 61.4   | 62.8   | 64.3   | 67.2   | 70.2   |
| 85°   | 35.1   | 35.1   | 35.1   | 38.0   | 39.5   |
| 87.5° | 13.2   | 11.7   | 11.7   | 11.7   | 11.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)