

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: P385255

Luminaire Tested: **14ID-50-L835-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-50-L835-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

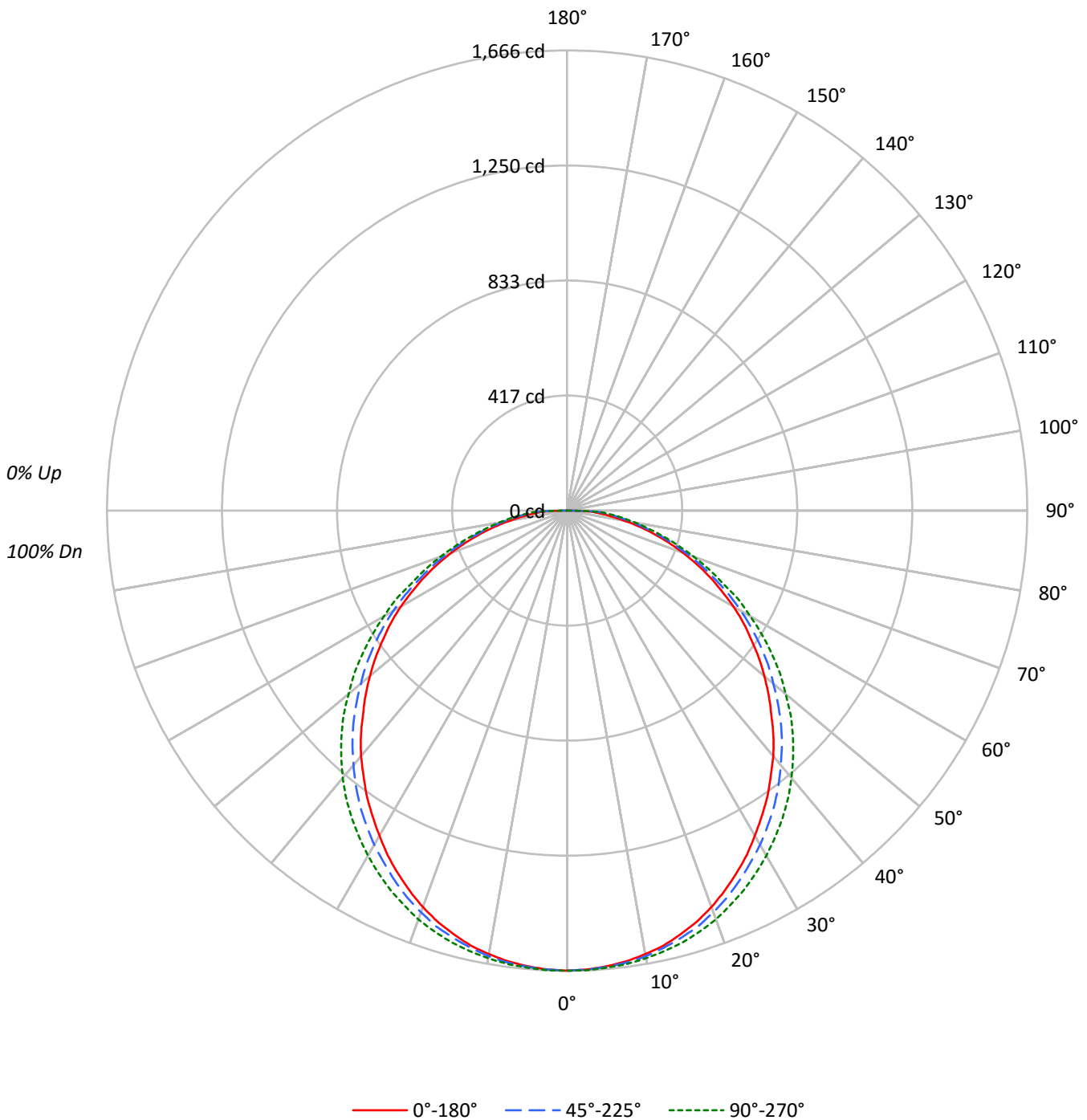
Lumens per Lamp: N/A
Luminaire Lumens: 4831.3 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (A_{in}): 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 | 108 | 103 | 99 | 94 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 82 |
| 2 | 98 | 90 | 82 | 77 | 95 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 57 |
| 4 | 82 | 69 | 60 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 52 | 63 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4482 | 4482 | 4482 |
| 5° | 4456 | 4422 | 4422 |
| 10° | 4423 | 4363 | 4368 |
| 15° | 4375 | 4289 | 4315 |
| 20° | 4309 | 4207 | 4253 |
| 25° | 4222 | 4104 | 4174 |
| 30° | 4124 | 4000 | 4088 |
| 35° | 4034 | 3891 | 3998 |
| 40° | 3940 | 3762 | 3894 |
| 45° | 3819 | 3633 | 3770 |
| 50° | 3718 | 3471 | 3607 |
| 55° | 3604 | 3311 | 3428 |
| 60° | 3493 | 3113 | 3200 |
| 65° | 3333 | 2869 | 2911 |
| 70° | 3139 | 2603 | 2630 |
| 75° | 2916 | 2309 | 2303 |
| 80° | 2613 | 1994 | 1981 |
| 85° | 2470 | 1734 | 1682 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 157.6 | 3.3 |
| 10°-20° | 451.7 | 9.3 |
| 20°-30° | 681.6 | 14.1 |
| 30°-40° | 818.1 | 16.9 |
| 40°-50° | 846.7 | 17.5 |
| 50°-60° | 767.0 | 15.9 |
| 60°-70° | 591.0 | 12.2 |
| 70°-80° | 365.7 | 7.6 |
| 80°-90° | 151.9 | 3.1 |
| 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° | 1290.9 | 26.7 |
| 0°-40° | 2109.0 | 43.7 |
| 0°-60° | 3722.8 | 77.1 |
| 0°-90° | 4831.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4831.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1666 | 1666 | 1666 | 1666 | 1666 | |
| 5° | 1656 | 1656 | 1658 | 1658 | 1661 | 157 |
| 15° | 1588 | 1590 | 1600 | 1610 | 1618 | 448 |
| 25° | 1450 | 1455 | 1477 | 1502 | 1515 | 668 |
| 35° | 1264 | 1274 | 1306 | 1342 | 1359 | 790 |
| 45° | 1045 | 1060 | 1095 | 1136 | 1156 | 808 |
| 55° | 814 | 827 | 854 | 892 | 904 | 729 |
| 65° | 570 | 575 | 593 | 618 | 621 | 564 |
| 75° | 324 | 332 | 344 | 359 | 359 | 343 |
| 85° | 118 | 131 | 151 | 161 | 158 | 128 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P385255

CATALOG NUMBER: 14ID-50-L835-CNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1665.7 | 1665.7 | 1665.7 | 1665.7 | 1665.7 |
| 2.5° | 1663.2 | 1663.2 | 1663.2 | 1663.2 | 1665.7 |
| 5° | 1655.7 | 1655.7 | 1658.2 | 1658.2 | 1660.7 |
| 7.5° | 1645.6 | 1645.6 | 1650.7 | 1650.7 | 1655.7 |
| 10° | 1630.6 | 1633.1 | 1638.1 | 1640.6 | 1645.6 |
| 12.5° | 1613.0 | 1613.0 | 1620.5 | 1628.0 | 1633.1 |
| 15° | 1587.8 | 1590.4 | 1600.4 | 1610.5 | 1618.0 |
| 17.5° | 1560.2 | 1562.7 | 1577.8 | 1587.8 | 1597.9 |
| 20° | 1527.6 | 1530.1 | 1547.7 | 1562.7 | 1575.3 |
| 22.5° | 1489.9 | 1494.9 | 1515.0 | 1535.1 | 1545.1 |
| 25° | 1449.7 | 1454.7 | 1477.3 | 1502.4 | 1515.0 |
| 27.5° | 1407.0 | 1414.5 | 1437.1 | 1464.7 | 1479.8 |
| 30° | 1359.2 | 1369.3 | 1396.9 | 1427.1 | 1442.1 |
| 32.5° | 1311.5 | 1321.5 | 1351.7 | 1386.9 | 1401.9 |
| 35° | 1263.7 | 1273.8 | 1306.5 | 1341.6 | 1359.2 |
| 37.5° | 1211.0 | 1221.0 | 1256.2 | 1293.9 | 1314.0 |
| 40° | 1160.7 | 1170.8 | 1203.4 | 1246.2 | 1263.7 |
| 42.5° | 1105.5 | 1115.5 | 1150.7 | 1190.9 | 1211.0 |
| 45° | 1045.2 | 1060.2 | 1095.4 | 1135.6 | 1155.7 |
| 47.5° | 989.9 | 1002.5 | 1035.1 | 1077.8 | 1097.9 |
| 50° | 932.1 | 944.7 | 974.8 | 1017.5 | 1032.6 |
| 52.5° | 874.3 | 886.9 | 917.0 | 957.2 | 972.3 |
| 55° | 814.0 | 826.6 | 854.2 | 891.9 | 904.5 |
| 57.5° | 756.2 | 766.3 | 791.4 | 826.6 | 836.6 |
| 60° | 695.9 | 706.0 | 726.1 | 758.8 | 766.3 |
| 62.5° | 630.6 | 638.2 | 660.8 | 690.9 | 701.0 |
| 65° | 570.3 | 575.3 | 592.9 | 618.1 | 620.6 |
| 67.5° | 507.5 | 512.5 | 530.1 | 547.7 | 555.2 |
| 70° | 444.7 | 452.2 | 464.8 | 482.4 | 487.4 |
| 72.5° | 384.4 | 391.9 | 404.5 | 419.6 | 422.1 |
| 75° | 324.1 | 331.6 | 344.2 | 359.3 | 359.3 |
| 77.5° | 266.3 | 273.9 | 288.9 | 301.5 | 301.5 |
| 80° | 208.5 | 221.1 | 236.2 | 248.7 | 248.7 |
| 82.5° | 160.8 | 170.8 | 190.9 | 201.0 | 201.0 |
| 85° | 118.1 | 130.6 | 150.7 | 160.8 | 158.3 |
| 87.5° | 85.4 | 98.0 | 115.6 | 123.1 | 120.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)