

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: P383797

Luminaire Tested: **22ID-45-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383797
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: 22ID-45-L850-CFR1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

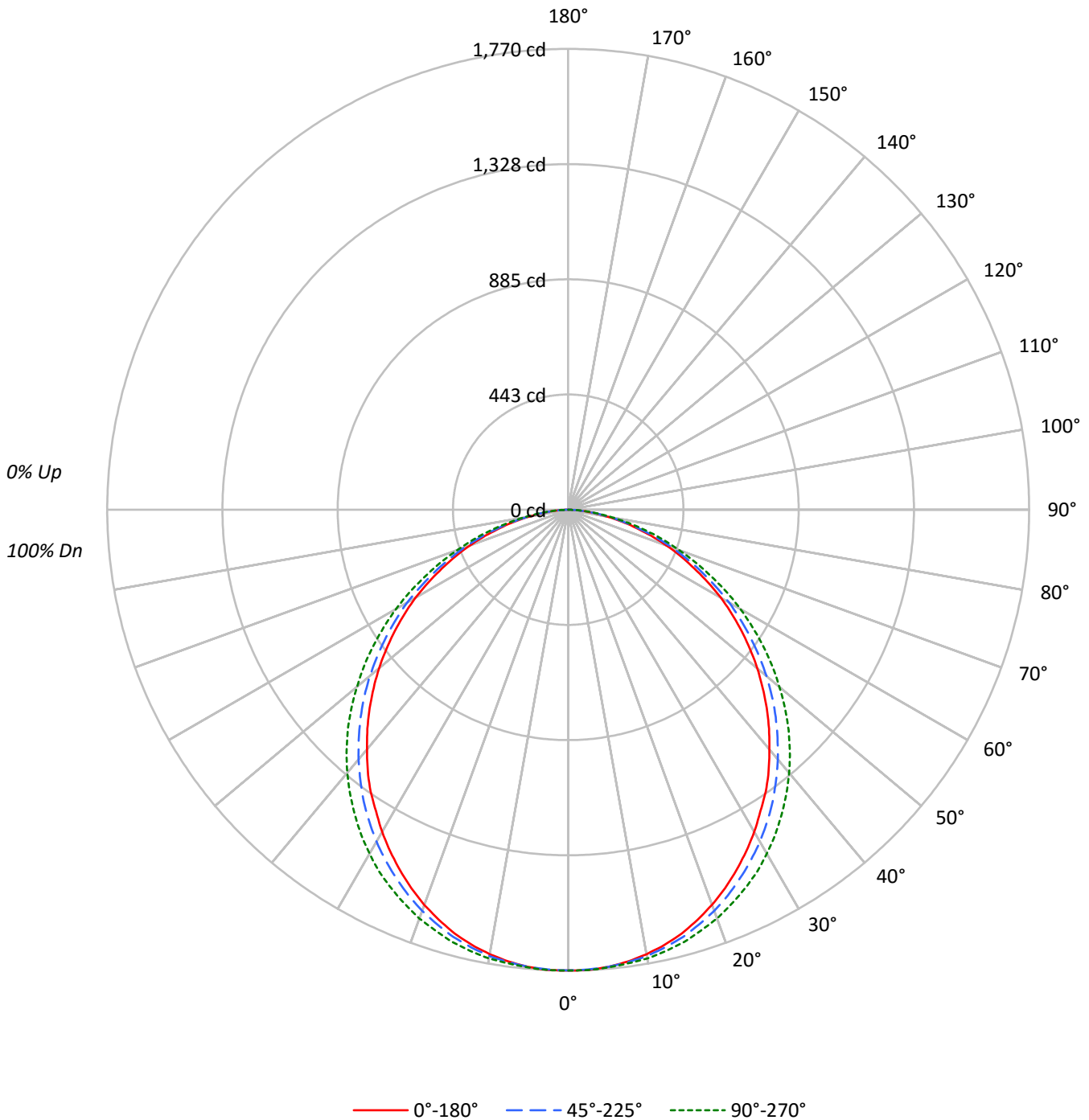
Lumens per Lamp: N/A
Luminaire Lumens: 4806.6 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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



TEST NUMBER: P383797
CATALOG NUMBER: 22ID-45-L850-CFR1

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° | 4762 | 4762 | 4762 |
| 5° | 4761 | 4761 | 4768 |
| 10° | 4737 | 4757 | 4783 |
| 15° | 4695 | 4735 | 4789 |
| 20° | 4625 | 4694 | 4784 |
| 25° | 4537 | 4638 | 4767 |
| 30° | 4440 | 4575 | 4740 |
| 35° | 4345 | 4496 | 4694 |
| 40° | 4221 | 4399 | 4637 |
| 45° | 4104 | 4288 | 4555 |
| 50° | 3968 | 4160 | 4433 |
| 55° | 3811 | 4004 | 4288 |
| 60° | 3644 | 3839 | 4112 |
| 65° | 3402 | 3603 | 3849 |
| 70° | 3158 | 3329 | 3557 |
| 75° | 2816 | 2966 | 3218 |
| 80° | 2360 | 2473 | 2698 |
| 85° | 1791 | 1791 | 2016 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 167.5 | 3.5 |
| 10°-20° | 479.3 | 10.0 |
| 20°-30° | 720.7 | 15.0 |
| 30°-40° | 857.3 | 17.8 |
| 40°-50° | 872.3 | 18.1 |
| 50°-60° | 767.7 | 16.0 |
| 60°-70° | 563.2 | 11.7 |
| 70°-80° | 305.7 | 6.4 |
| 80°-90° | 72.9 | 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° | 1367.5 | 28.4 |
| 0°-40° | 2224.8 | 46.3 |
| 0°-60° | 3864.8 | 80.4 |
| 0°-90° | 4806.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4806.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1770 | 1770 | 1770 | 1770 | 1770 | |
| 5° | 1763 | 1760 | 1763 | 1763 | 1765 | 167 |
| 15° | 1685 | 1688 | 1700 | 1709 | 1719 | 475 |
| 25° | 1528 | 1538 | 1562 | 1588 | 1605 | 704 |
| 35° | 1322 | 1332 | 1368 | 1410 | 1429 | 826 |
| 45° | 1078 | 1088 | 1127 | 1175 | 1197 | 831 |
| 55° | 812 | 824 | 854 | 895 | 914 | 727 |
| 65° | 534 | 544 | 566 | 590 | 604 | 531 |
| 75° | 271 | 276 | 285 | 300 | 310 | 288 |
| 85° | 58 | 58 | 58 | 63 | 65 | 70 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1769.8 | 1769.8 | 1769.8 | 1769.8 | 1769.8 |
| 2.5° | 1769.8 | 1767.4 | 1767.4 | 1767.4 | 1769.8 |
| 5° | 1762.6 | 1760.2 | 1762.6 | 1762.6 | 1765.0 |
| 7.5° | 1750.5 | 1748.1 | 1752.9 | 1755.3 | 1757.7 |
| 10° | 1733.6 | 1733.6 | 1740.8 | 1745.7 | 1750.5 |
| 12.5° | 1711.8 | 1714.2 | 1721.5 | 1728.7 | 1736.0 |
| 15° | 1685.2 | 1687.6 | 1699.7 | 1709.4 | 1719.1 |
| 17.5° | 1651.4 | 1656.2 | 1670.7 | 1685.2 | 1694.9 |
| 20° | 1615.1 | 1622.3 | 1639.3 | 1658.6 | 1670.7 |
| 22.5° | 1574.0 | 1583.7 | 1603.0 | 1627.2 | 1639.3 |
| 25° | 1528.0 | 1537.7 | 1561.9 | 1588.5 | 1605.4 |
| 27.5° | 1479.7 | 1491.8 | 1518.4 | 1549.8 | 1569.2 |
| 30° | 1428.9 | 1441.0 | 1472.4 | 1506.3 | 1525.6 |
| 32.5° | 1373.3 | 1387.8 | 1421.7 | 1460.4 | 1479.7 |
| 35° | 1322.5 | 1332.2 | 1368.5 | 1409.6 | 1428.9 |
| 37.5° | 1264.5 | 1276.6 | 1310.4 | 1354.0 | 1375.7 |
| 40° | 1201.6 | 1213.7 | 1252.4 | 1295.9 | 1320.1 |
| 42.5° | 1141.2 | 1150.9 | 1189.6 | 1237.9 | 1259.7 |
| 45° | 1078.3 | 1088.0 | 1126.7 | 1175.1 | 1196.8 |
| 47.5° | 1013.1 | 1025.1 | 1061.4 | 1107.4 | 1129.1 |
| 50° | 947.8 | 957.4 | 993.7 | 1037.2 | 1059.0 |
| 52.5° | 880.1 | 889.8 | 923.6 | 967.1 | 988.9 |
| 55° | 812.4 | 824.5 | 853.5 | 894.6 | 913.9 |
| 57.5° | 744.7 | 756.8 | 783.4 | 822.1 | 839.0 |
| 60° | 677.0 | 686.7 | 713.3 | 747.1 | 764.0 |
| 62.5° | 604.5 | 611.7 | 638.3 | 672.1 | 686.7 |
| 65° | 534.3 | 544.0 | 565.8 | 589.9 | 604.5 |
| 67.5° | 469.1 | 473.9 | 493.2 | 519.8 | 529.5 |
| 70° | 401.4 | 406.2 | 423.1 | 444.9 | 452.1 |
| 72.5° | 333.7 | 340.9 | 353.0 | 372.3 | 382.0 |
| 75° | 270.8 | 275.6 | 285.3 | 299.8 | 309.5 |
| 77.5° | 210.3 | 212.8 | 220.0 | 232.1 | 239.4 |
| 80° | 152.3 | 154.7 | 159.6 | 169.2 | 174.1 |
| 82.5° | 101.5 | 104.0 | 106.4 | 111.2 | 116.1 |
| 85° | 58.0 | 58.0 | 58.0 | 62.9 | 65.3 |
| 87.5° | 21.8 | 19.3 | 19.3 | 19.3 | 19.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)