

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: P384049

Luminaire Tested: **24ID-85-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-85-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

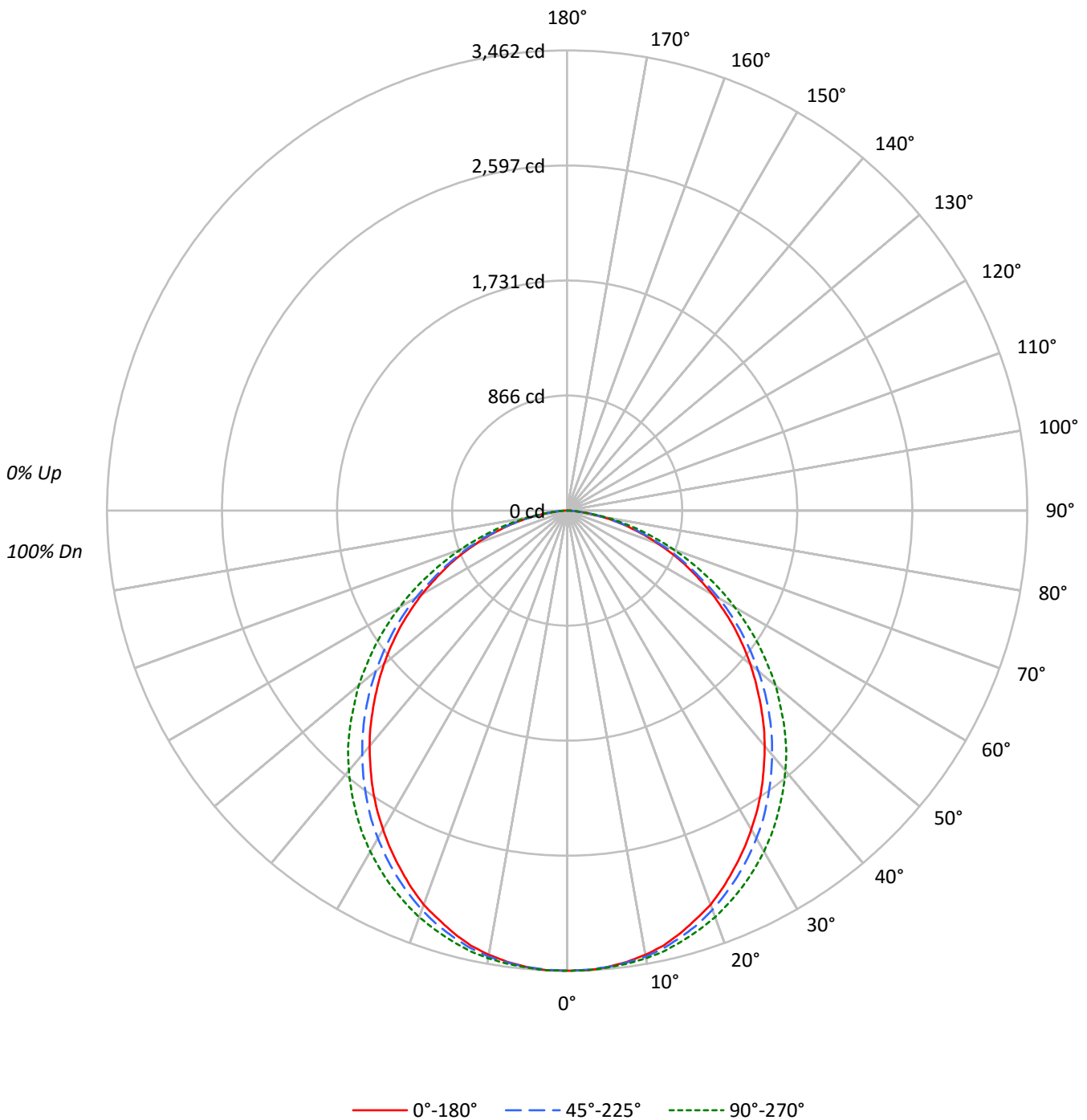
Lumens per Lamp: N/A
Luminaire Lumens: 9137.8 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.4
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 | 109 | 105 | 101 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 |
| 4 | 83 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 63 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4657 | 4657 | 4657 |
| 5° | 4657 | 4657 | 4663 |
| 10° | 4635 | 4654 | 4673 |
| 15° | 4586 | 4624 | 4669 |
| 20° | 4517 | 4576 | 4661 |
| 25° | 4412 | 4507 | 4636 |
| 30° | 4304 | 4425 | 4602 |
| 35° | 4189 | 4324 | 4550 |
| 40° | 4061 | 4214 | 4487 |
| 45° | 3912 | 4086 | 4400 |
| 50° | 3767 | 3930 | 4284 |
| 55° | 3598 | 3759 | 4124 |
| 60° | 3401 | 3549 | 3918 |
| 65° | 3163 | 3265 | 3659 |
| 70° | 2864 | 2972 | 3350 |
| 75° | 2499 | 2595 | 2928 |
| 80° | 2022 | 2058 | 2306 |
| 85° | 1201 | 1343 | 1132 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 327.7 | 3.6 |
| 10°-20° | 936.6 | 10.2 |
| 20°-30° | 1401.0 | 15.3 |
| 30°-40° | 1655.3 | 18.1 |
| 40°-50° | 1670.3 | 18.3 |
| 50°-60° | 1450.5 | 15.9 |
| 60°-70° | 1040.1 | 11.4 |
| 70°-80° | 541.9 | 5.9 |
| 80°-90° | 114.4 | 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° | 2665.3 | 29.2 |
| 0°-40° | 4320.6 | 47.3 |
| 0°-60° | 7441.4 | 81.4 |
| 0°-90° | 9137.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9137.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3462 | 3462 | 3462 | 3462 | 3462 | |
| 5° | 3448 | 3443 | 3448 | 3448 | 3452 | 327 |
| 15° | 3292 | 3297 | 3320 | 3342 | 3352 | 928 |
| 25° | 2972 | 2990 | 3036 | 3095 | 3123 | 1369 |
| 35° | 2550 | 2569 | 2633 | 2729 | 2770 | 1594 |
| 45° | 2056 | 2079 | 2147 | 2257 | 2312 | 1588 |
| 55° | 1534 | 1548 | 1603 | 1708 | 1758 | 1370 |
| 65° | 994 | 989 | 1026 | 1104 | 1149 | 982 |
| 75° | 481 | 476 | 499 | 536 | 563 | 513 |
| 85° | 78 | 87 | 87 | 78 | 73 | 111 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3461.5 | 3461.5 | 3461.5 | 3461.5 | 3461.5 |
| 2.5° | 3461.5 | 3456.9 | 3456.9 | 3456.9 | 3461.5 |
| 5° | 3447.8 | 3443.2 | 3447.8 | 3447.8 | 3452.4 |
| 7.5° | 3424.9 | 3420.3 | 3429.5 | 3434.0 | 3438.6 |
| 10° | 3392.8 | 3392.8 | 3406.6 | 3415.7 | 3420.3 |
| 12.5° | 3351.6 | 3351.6 | 3369.9 | 3383.7 | 3392.8 |
| 15° | 3292.1 | 3296.7 | 3319.6 | 3342.5 | 3351.6 |
| 17.5° | 3223.4 | 3237.2 | 3264.6 | 3296.7 | 3305.8 |
| 20° | 3154.7 | 3163.9 | 3196.0 | 3237.2 | 3255.5 |
| 22.5° | 3067.7 | 3081.5 | 3118.1 | 3173.1 | 3191.4 |
| 25° | 2971.6 | 2989.9 | 3035.7 | 3095.2 | 3122.7 |
| 27.5° | 2875.4 | 2889.2 | 2944.1 | 3012.8 | 3044.9 |
| 30° | 2770.1 | 2788.4 | 2848.0 | 2925.8 | 2962.4 |
| 32.5° | 2664.8 | 2678.6 | 2747.2 | 2829.7 | 2870.9 |
| 35° | 2550.4 | 2568.7 | 2632.8 | 2728.9 | 2770.1 |
| 37.5° | 2431.3 | 2454.2 | 2518.3 | 2619.0 | 2664.8 |
| 40° | 2312.3 | 2326.0 | 2399.3 | 2500.0 | 2554.9 |
| 42.5° | 2188.6 | 2206.9 | 2275.6 | 2385.5 | 2440.5 |
| 45° | 2055.8 | 2078.7 | 2147.4 | 2257.3 | 2312.3 |
| 47.5° | 1927.6 | 1950.5 | 2014.6 | 2124.5 | 2174.9 |
| 50° | 1799.4 | 1813.2 | 1877.3 | 1987.2 | 2046.7 |
| 52.5° | 1666.7 | 1680.4 | 1739.9 | 1845.2 | 1900.2 |
| 55° | 1533.9 | 1547.6 | 1602.6 | 1707.9 | 1758.2 |
| 57.5° | 1396.5 | 1405.7 | 1460.6 | 1556.8 | 1607.1 |
| 60° | 1263.7 | 1268.3 | 1318.7 | 1405.7 | 1456.0 |
| 62.5° | 1121.8 | 1126.4 | 1163.0 | 1263.7 | 1309.5 |
| 65° | 993.6 | 989.0 | 1025.6 | 1103.5 | 1149.3 |
| 67.5° | 860.8 | 860.8 | 892.9 | 961.5 | 998.2 |
| 70° | 728.0 | 728.0 | 755.5 | 815.0 | 851.6 |
| 72.5° | 604.4 | 604.4 | 627.3 | 673.1 | 700.5 |
| 75° | 480.8 | 476.2 | 499.1 | 535.7 | 563.2 |
| 77.5° | 366.3 | 366.3 | 375.5 | 407.5 | 425.8 |
| 80° | 261.0 | 261.0 | 265.6 | 283.9 | 297.6 |
| 82.5° | 164.8 | 164.8 | 164.8 | 174.0 | 178.6 |
| 85° | 77.8 | 87.0 | 87.0 | 77.8 | 73.3 |
| 87.5° | 36.6 | 36.6 | 32.1 | 32.1 | 32.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)