

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: P385385

Luminaire Tested: **24ID-75-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385385
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: 24ID-75-L850-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

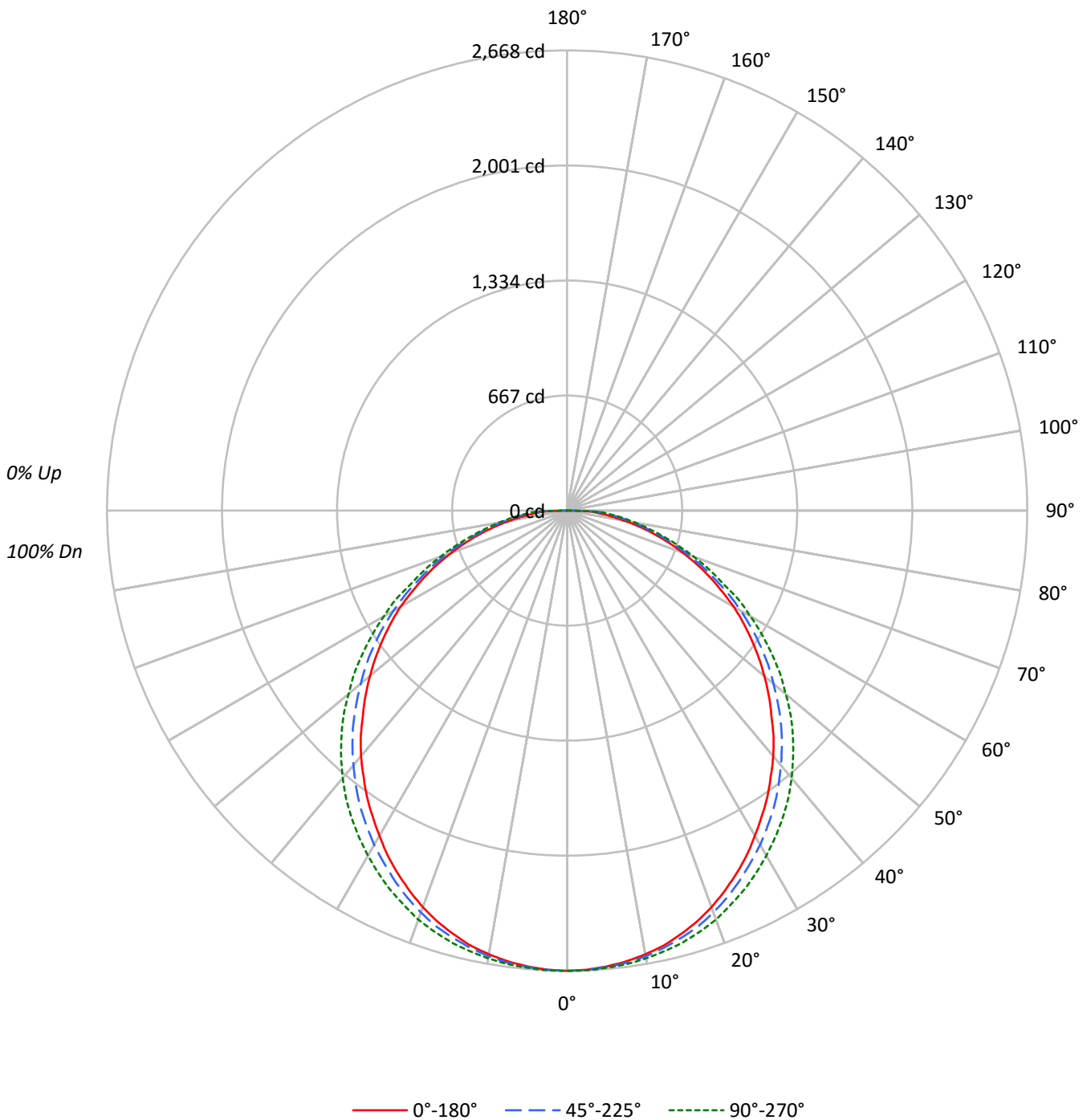
Lumens per Lamp: N/A
Luminaire Lumens: 7739.2 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70.8
Input Voltage (V): NR
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 | | | | 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° | 3590 | 3590 | 3590 |
| 5° | 3569 | 3560 | 3567 |
| 10° | 3543 | 3530 | 3549 |
| 15° | 3504 | 3488 | 3532 |
| 20° | 3451 | 3439 | 3507 |
| 25° | 3382 | 3374 | 3468 |
| 30° | 3303 | 3308 | 3424 |
| 35° | 3231 | 3237 | 3379 |
| 40° | 3156 | 3152 | 3323 |
| 45° | 3058 | 3068 | 3252 |
| 50° | 2978 | 2957 | 3150 |
| 55° | 2887 | 2850 | 3037 |
| 60° | 2798 | 2714 | 2887 |
| 65° | 2670 | 2542 | 2685 |
| 70° | 2515 | 2357 | 2499 |
| 75° | 2336 | 2155 | 2282 |
| 80° | 2093 | 1952 | 2096 |
| 85° | 1979 | 1855 | 2005 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 252.5 | 3.3 |
| 10°-20° | 723.5 | 9.3 |
| 20°-30° | 1091.9 | 14.1 |
| 30°-40° | 1310.6 | 16.9 |
| 40°-50° | 1356.3 | 17.5 |
| 50°-60° | 1228.7 | 15.9 |
| 60°-70° | 946.7 | 12.2 |
| 70°-80° | 585.8 | 7.6 |
| 80°-90° | 243.3 | 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° | 2067.9 | 26.7 |
| 0°-40° | 3378.4 | 43.7 |
| 0°-60° | 5963.5 | 77.1 |
| 0°-90° | 7739.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7739.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2668 | 2668 | 2668 | 2668 | 2668 | |
| 5° | 2652 | 2652 | 2656 | 2656 | 2660 | 252 |
| 15° | 2544 | 2548 | 2564 | 2580 | 2592 | 717 |
| 25° | 2322 | 2330 | 2366 | 2407 | 2427 | 1070 |
| 35° | 2024 | 2040 | 2093 | 2149 | 2177 | 1266 |
| 45° | 1674 | 1698 | 1755 | 1819 | 1851 | 1295 |
| 55° | 1304 | 1324 | 1368 | 1429 | 1449 | 1168 |
| 65° | 914 | 922 | 950 | 990 | 994 | 903 |
| 75° | 519 | 531 | 551 | 576 | 576 | 550 |
| 85° | 189 | 209 | 242 | 258 | 254 | 204 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 24ID-75-L850-CNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2668.3 | 2668.3 | 2668.3 | 2668.3 | 2668.3 |
| 2.5° | 2664.3 | 2664.3 | 2664.3 | 2664.3 | 2668.3 |
| 5° | 2652.2 | 2652.2 | 2656.2 | 2656.2 | 2660.3 |
| 7.5° | 2636.1 | 2636.1 | 2644.2 | 2644.2 | 2652.2 |
| 10° | 2612.0 | 2616.0 | 2624.0 | 2628.1 | 2636.1 |
| 12.5° | 2583.8 | 2583.8 | 2595.9 | 2608.0 | 2616.0 |
| 15° | 2543.6 | 2547.6 | 2563.7 | 2579.8 | 2591.9 |
| 17.5° | 2499.3 | 2503.3 | 2527.5 | 2543.6 | 2559.7 |
| 20° | 2447.0 | 2451.0 | 2479.2 | 2503.3 | 2523.4 |
| 22.5° | 2386.6 | 2394.6 | 2426.8 | 2459.0 | 2475.1 |
| 25° | 2322.2 | 2330.3 | 2366.5 | 2406.7 | 2426.8 |
| 27.5° | 2253.8 | 2265.9 | 2302.1 | 2346.4 | 2370.5 |
| 30° | 2177.3 | 2193.4 | 2237.7 | 2286.0 | 2310.1 |
| 32.5° | 2100.8 | 2116.9 | 2165.2 | 2221.6 | 2245.7 |
| 35° | 2024.4 | 2040.5 | 2092.8 | 2149.1 | 2177.3 |
| 37.5° | 1939.9 | 1956.0 | 2012.3 | 2072.7 | 2104.9 |
| 40° | 1859.4 | 1875.5 | 1927.8 | 1996.2 | 2024.4 |
| 42.5° | 1770.8 | 1786.9 | 1843.3 | 1907.7 | 1939.9 |
| 45° | 1674.2 | 1698.4 | 1754.7 | 1819.1 | 1851.3 |
| 47.5° | 1585.7 | 1605.8 | 1658.1 | 1726.6 | 1758.8 |
| 50° | 1493.1 | 1513.3 | 1561.6 | 1630.0 | 1654.1 |
| 52.5° | 1400.6 | 1420.7 | 1469.0 | 1533.4 | 1557.5 |
| 55° | 1304.0 | 1324.1 | 1368.4 | 1428.7 | 1448.9 |
| 57.5° | 1211.4 | 1227.5 | 1267.8 | 1324.1 | 1340.2 |
| 60° | 1114.8 | 1130.9 | 1163.1 | 1215.4 | 1227.5 |
| 62.5° | 1010.2 | 1022.3 | 1058.5 | 1106.8 | 1122.9 |
| 65° | 913.6 | 921.6 | 949.8 | 990.1 | 994.1 |
| 67.5° | 813.0 | 821.0 | 849.2 | 877.4 | 889.4 |
| 70° | 712.4 | 724.4 | 744.6 | 772.7 | 780.8 |
| 72.5° | 615.8 | 627.8 | 648.0 | 672.1 | 676.1 |
| 75° | 519.2 | 531.2 | 551.4 | 575.5 | 575.5 |
| 77.5° | 426.6 | 438.7 | 462.8 | 483.0 | 483.0 |
| 80° | 334.0 | 354.2 | 378.3 | 398.4 | 398.4 |
| 82.5° | 257.6 | 273.7 | 305.9 | 322.0 | 322.0 |
| 85° | 189.2 | 209.3 | 241.5 | 257.6 | 253.6 |
| 87.5° | 136.8 | 157.0 | 185.1 | 197.2 | 193.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)