

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: P384039

Luminaire Tested: **24ID-75-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384039
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-75-L835-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

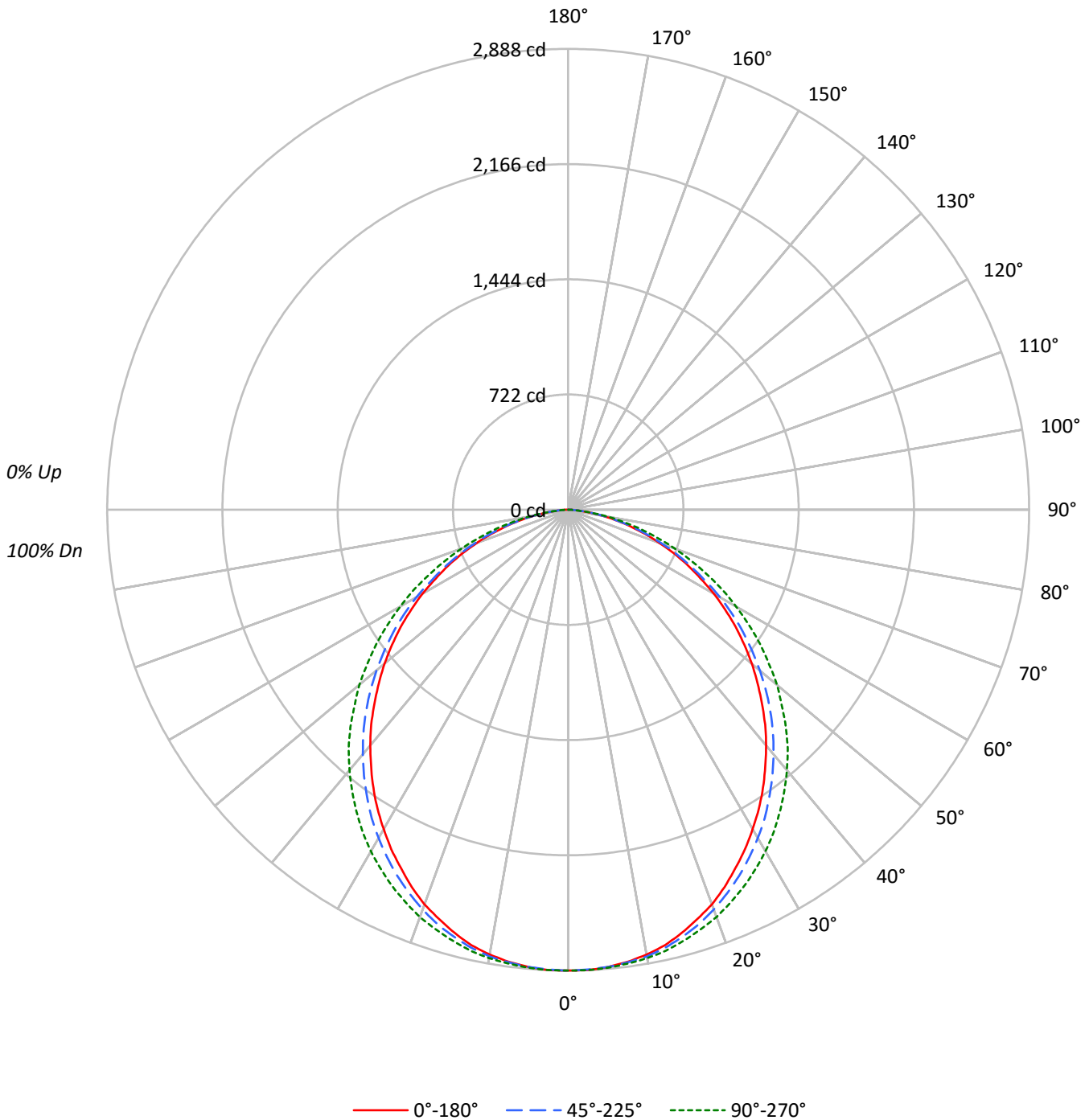
Lumens per Lamp: N/A
Luminaire Lumens: 7624.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.8
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° | 3886 | 3886 | 3886 |
| 5° | 3885 | 3885 | 3890 |
| 10° | 3868 | 3883 | 3899 |
| 15° | 3826 | 3858 | 3895 |
| 20° | 3769 | 3818 | 3889 |
| 25° | 3681 | 3760 | 3868 |
| 30° | 3591 | 3692 | 3840 |
| 35° | 3495 | 3608 | 3796 |
| 40° | 3388 | 3516 | 3744 |
| 45° | 3264 | 3409 | 3671 |
| 50° | 3143 | 3279 | 3575 |
| 55° | 3002 | 3137 | 3441 |
| 60° | 2837 | 2961 | 3269 |
| 65° | 2639 | 2724 | 3053 |
| 70° | 2389 | 2480 | 2795 |
| 75° | 2085 | 2165 | 2443 |
| 80° | 1688 | 1717 | 1924 |
| 85° | 1002 | 1121 | 943 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 273.4 | 3.6 |
| 10°-20° | 781.5 | 10.2 |
| 20°-30° | 1168.9 | 15.3 |
| 30°-40° | 1381.1 | 18.1 |
| 40°-50° | 1393.6 | 18.3 |
| 50°-60° | 1210.2 | 15.9 |
| 60°-70° | 867.8 | 11.4 |
| 70°-80° | 452.1 | 5.9 |
| 80°-90° | 95.4 | 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° | 2223.8 | 29.2 |
| 0°-40° | 3604.9 | 47.3 |
| 0°-60° | 6208.7 | 81.4 |
| 0°-90° | 7624.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7624.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2888 | 2888 | 2888 | 2888 | 2888 | |
| 5° | 2877 | 2873 | 2877 | 2877 | 2880 | 273 |
| 15° | 2747 | 2751 | 2770 | 2789 | 2796 | 774 |
| 25° | 2479 | 2495 | 2533 | 2582 | 2605 | 1142 |
| 35° | 2128 | 2143 | 2197 | 2277 | 2311 | 1330 |
| 45° | 1715 | 1734 | 1792 | 1883 | 1929 | 1325 |
| 55° | 1280 | 1291 | 1337 | 1425 | 1467 | 1143 |
| 65° | 829 | 825 | 856 | 921 | 959 | 820 |
| 75° | 401 | 397 | 416 | 447 | 470 | 428 |
| 85° | 65 | 73 | 73 | 65 | 61 | 93 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2888.1 | 2888.1 | 2888.1 | 2888.1 | 2888.1 |
| 2.5° | 2888.1 | 2884.3 | 2884.3 | 2884.3 | 2888.1 |
| 5° | 2876.6 | 2872.8 | 2876.6 | 2876.6 | 2880.5 |
| 7.5° | 2857.5 | 2853.7 | 2861.4 | 2865.2 | 2869.0 |
| 10° | 2830.8 | 2830.8 | 2842.3 | 2849.9 | 2853.7 |
| 12.5° | 2796.4 | 2796.4 | 2811.7 | 2823.2 | 2830.8 |
| 15° | 2746.8 | 2750.6 | 2769.7 | 2788.8 | 2796.4 |
| 17.5° | 2689.5 | 2700.9 | 2723.8 | 2750.6 | 2758.2 |
| 20° | 2632.2 | 2639.8 | 2666.5 | 2700.9 | 2716.2 |
| 22.5° | 2559.6 | 2571.0 | 2601.6 | 2647.4 | 2662.7 |
| 25° | 2479.3 | 2494.6 | 2532.8 | 2582.5 | 2605.4 |
| 27.5° | 2399.1 | 2410.6 | 2456.4 | 2513.7 | 2540.5 |
| 30° | 2311.3 | 2326.5 | 2376.2 | 2441.1 | 2471.7 |
| 32.5° | 2223.4 | 2234.8 | 2292.2 | 2360.9 | 2395.3 |
| 35° | 2127.9 | 2143.2 | 2196.6 | 2276.9 | 2311.3 |
| 37.5° | 2028.6 | 2047.7 | 2101.1 | 2185.2 | 2223.4 |
| 40° | 1929.2 | 1940.7 | 2001.8 | 2085.9 | 2131.7 |
| 42.5° | 1826.1 | 1841.4 | 1898.7 | 1990.4 | 2036.2 |
| 45° | 1715.3 | 1734.4 | 1791.7 | 1883.4 | 1929.2 |
| 47.5° | 1608.3 | 1627.4 | 1680.9 | 1772.6 | 1814.6 |
| 50° | 1501.4 | 1512.8 | 1566.3 | 1658.0 | 1707.7 |
| 52.5° | 1390.6 | 1402.0 | 1451.7 | 1539.6 | 1585.4 |
| 55° | 1279.8 | 1291.2 | 1337.1 | 1425.0 | 1467.0 |
| 57.5° | 1165.2 | 1172.8 | 1218.7 | 1298.9 | 1340.9 |
| 60° | 1054.4 | 1058.2 | 1100.2 | 1172.8 | 1214.8 |
| 62.5° | 936.0 | 939.8 | 970.3 | 1054.4 | 1092.6 |
| 65° | 829.0 | 825.2 | 855.7 | 920.7 | 958.9 |
| 67.5° | 718.2 | 718.2 | 744.9 | 802.3 | 832.8 |
| 70° | 607.4 | 607.4 | 630.3 | 680.0 | 710.6 |
| 72.5° | 504.3 | 504.3 | 523.4 | 561.6 | 584.5 |
| 75° | 401.1 | 397.3 | 416.4 | 447.0 | 469.9 |
| 77.5° | 305.6 | 305.6 | 313.3 | 340.0 | 355.3 |
| 80° | 217.8 | 217.8 | 221.6 | 236.9 | 248.3 |
| 82.5° | 137.5 | 137.5 | 137.5 | 145.2 | 149.0 |
| 85° | 64.9 | 72.6 | 72.6 | 64.9 | 61.1 |
| 87.5° | 30.6 | 30.6 | 26.7 | 26.7 | 26.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)