

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: P385217

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-75-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

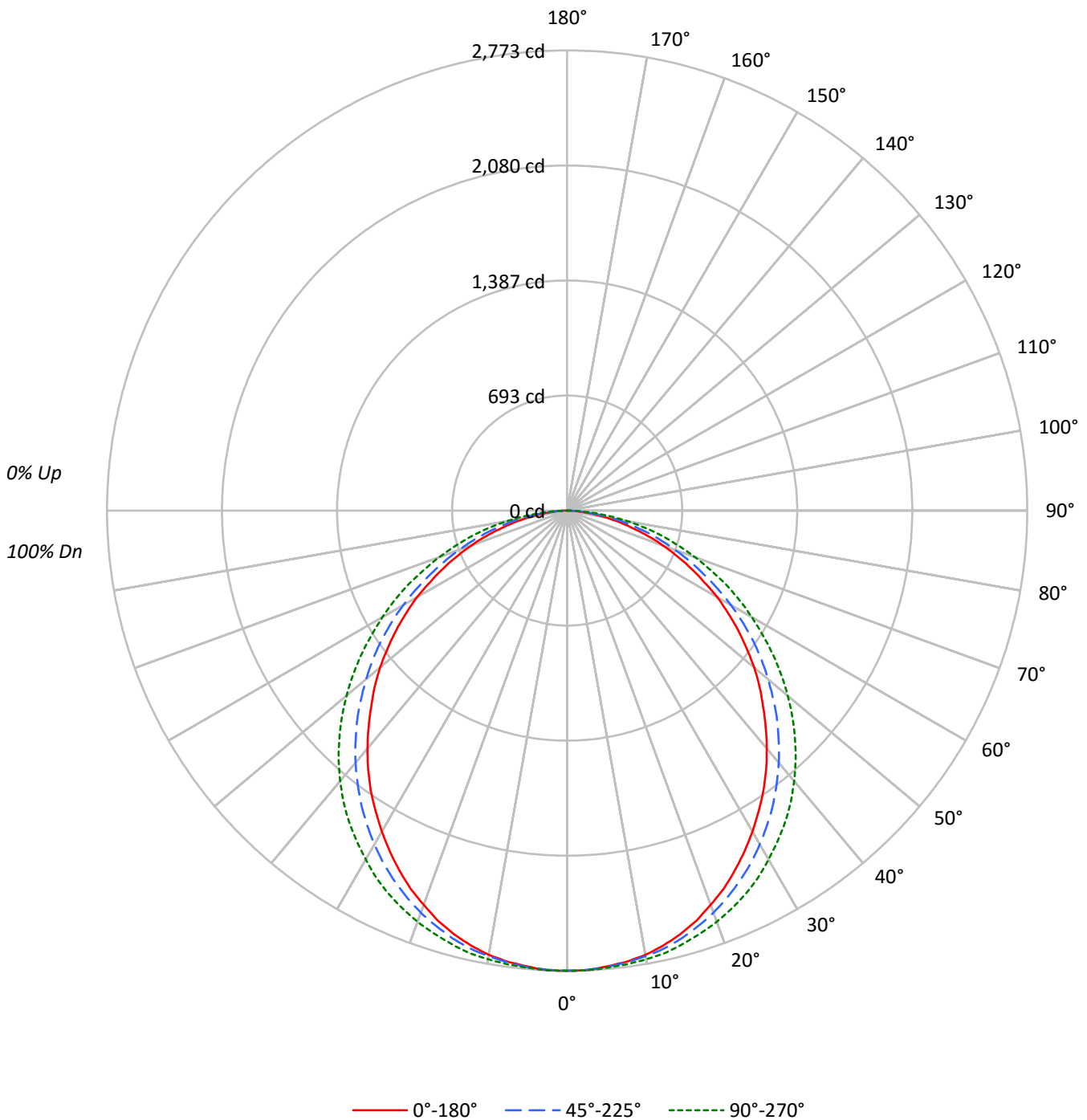
Lumens per Lamp: N/A
Luminaire Lumens: 7699.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 98 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 65 | 58 | 53 | 62 | 57 | 53 | 50 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 41 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3731 | 3731 | 3731 |
| 5° | 3724 | 3729 | 3735 |
| 10° | 3714 | 3725 | 3751 |
| 15° | 3679 | 3717 | 3765 |
| 20° | 3620 | 3692 | 3776 |
| 25° | 3552 | 3655 | 3782 |
| 30° | 3469 | 3608 | 3771 |
| 35° | 3387 | 3553 | 3764 |
| 40° | 3288 | 3486 | 3738 |
| 45° | 3178 | 3407 | 3695 |
| 50° | 3081 | 3309 | 3634 |
| 55° | 2952 | 3207 | 3553 |
| 60° | 2811 | 3073 | 3459 |
| 65° | 2621 | 2893 | 3363 |
| 70° | 2414 | 2720 | 3223 |
| 75° | 2140 | 2524 | 3089 |
| 80° | 1805 | 2257 | 2858 |
| 85° | 1318 | 1738 | 2279 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 262.5 | 3.4 |
| 10°-20° | 753.0 | 9.8 |
| 20°-30° | 1135.7 | 14.8 |
| 30°-40° | 1355.9 | 17.6 |
| 40°-50° | 1385.8 | 18.0 |
| 50°-60° | 1228.8 | 16.0 |
| 60°-70° | 916.0 | 11.9 |
| 70°-80° | 523.3 | 6.8 |
| 80°-90° | 138.0 | 1.8 |
| 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° | 2151.2 | 27.9 |
| 0°-40° | 3507.1 | 45.6 |
| 0°-60° | 6121.7 | 79.5 |
| 0°-90° | 7699.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7699.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2773 | 2773 | 2773 | 2773 | 2773 | |
| 5° | 2757 | 2757 | 2761 | 2761 | 2765 | 262 |
| 15° | 2641 | 2649 | 2668 | 2691 | 2703 | 744 |
| 25° | 2392 | 2412 | 2462 | 2517 | 2548 | 1101 |
| 35° | 2062 | 2089 | 2163 | 2249 | 2291 | 1288 |
| 45° | 1670 | 1705 | 1790 | 1887 | 1942 | 1290 |
| 55° | 1258 | 1282 | 1367 | 1464 | 1515 | 1124 |
| 65° | 823 | 843 | 909 | 1002 | 1056 | 816 |
| 75° | 412 | 431 | 486 | 559 | 594 | 439 |
| 85° | 85 | 89 | 113 | 140 | 148 | 107 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P385217

CATALOG NUMBER: 24ID-75-L850-CNC

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2772.9 | 2772.9 | 2772.9 | 2772.9 | 2772.9 |
| 2.5° | 2772.9 | 2769.0 | 2769.0 | 2769.0 | 2772.9 |
| 5° | 2757.4 | 2757.4 | 2761.3 | 2761.3 | 2765.1 |
| 7.5° | 2741.8 | 2741.8 | 2745.7 | 2749.6 | 2757.4 |
| 10° | 2718.5 | 2718.5 | 2726.3 | 2738.0 | 2745.7 |
| 12.5° | 2683.6 | 2687.5 | 2703.0 | 2718.5 | 2730.2 |
| 15° | 2640.9 | 2648.6 | 2668.1 | 2691.4 | 2703.0 |
| 17.5° | 2590.4 | 2598.1 | 2625.3 | 2656.4 | 2671.9 |
| 20° | 2528.2 | 2543.8 | 2578.7 | 2617.6 | 2637.0 |
| 22.5° | 2466.1 | 2481.6 | 2524.4 | 2571.0 | 2594.3 |
| 25° | 2392.3 | 2411.7 | 2462.2 | 2516.6 | 2547.7 |
| 27.5° | 2314.6 | 2337.9 | 2396.2 | 2458.3 | 2493.3 |
| 30° | 2233.1 | 2260.3 | 2322.4 | 2392.3 | 2427.3 |
| 32.5° | 2147.6 | 2174.8 | 2244.7 | 2322.4 | 2361.2 |
| 35° | 2062.2 | 2089.4 | 2163.2 | 2248.6 | 2291.3 |
| 37.5° | 1969.0 | 1996.2 | 2073.9 | 2167.1 | 2213.7 |
| 40° | 1871.9 | 1903.0 | 1984.5 | 2077.7 | 2128.2 |
| 42.5° | 1770.9 | 1805.9 | 1887.4 | 1988.4 | 2038.9 |
| 45° | 1670.0 | 1704.9 | 1790.4 | 1887.4 | 1941.8 |
| 47.5° | 1572.9 | 1600.1 | 1685.5 | 1786.5 | 1840.8 |
| 50° | 1471.9 | 1495.2 | 1580.6 | 1681.6 | 1736.0 |
| 52.5° | 1363.2 | 1394.2 | 1475.8 | 1576.8 | 1627.2 |
| 55° | 1258.3 | 1281.6 | 1367.0 | 1464.1 | 1514.6 |
| 57.5° | 1149.6 | 1172.9 | 1254.4 | 1351.5 | 1398.1 |
| 60° | 1044.7 | 1068.0 | 1141.8 | 1238.9 | 1285.5 |
| 62.5° | 928.2 | 951.5 | 1025.3 | 1126.3 | 1172.9 |
| 65° | 823.3 | 842.7 | 908.8 | 1002.0 | 1056.3 |
| 67.5° | 718.5 | 737.9 | 800.0 | 889.4 | 932.1 |
| 70° | 613.6 | 629.1 | 691.3 | 772.8 | 819.4 |
| 72.5° | 512.6 | 528.2 | 590.3 | 664.1 | 702.9 |
| 75° | 411.7 | 431.1 | 485.5 | 559.2 | 594.2 |
| 77.5° | 318.5 | 337.9 | 384.5 | 450.5 | 481.6 |
| 80° | 233.0 | 248.6 | 291.3 | 341.8 | 368.9 |
| 82.5° | 155.3 | 167.0 | 198.1 | 240.8 | 260.2 |
| 85° | 85.4 | 89.3 | 112.6 | 139.8 | 147.6 |
| 87.5° | 35.0 | 35.0 | 42.7 | 46.6 | 50.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)