

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: P383988

Luminaire Tested: **22ID-75-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383988
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: 22ID-75-L840-CFR2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

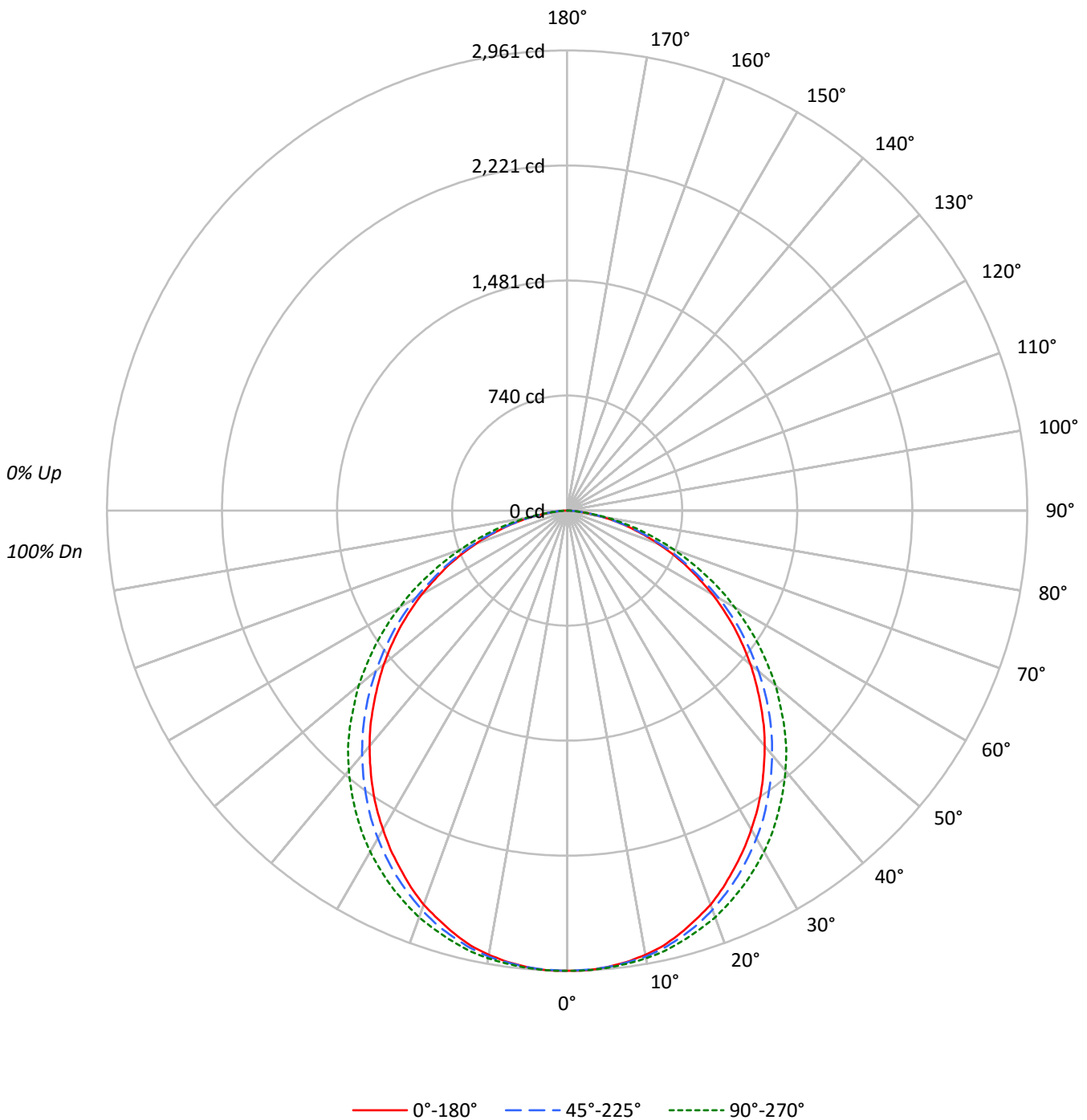
Lumens per Lamp: N/A
Luminaire Lumens: 7817.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.8
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 | 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° | 7969 | 7969 | 7969 |
| 5° | 7967 | 7967 | 7978 |
| 10° | 7931 | 7963 | 7995 |
| 15° | 7846 | 7911 | 7988 |
| 20° | 7728 | 7829 | 7975 |
| 25° | 7548 | 7711 | 7932 |
| 30° | 7363 | 7570 | 7874 |
| 35° | 7167 | 7399 | 7785 |
| 40° | 6948 | 7210 | 7678 |
| 45° | 6693 | 6991 | 7528 |
| 50° | 6444 | 6723 | 7330 |
| 55° | 6156 | 6432 | 7057 |
| 60° | 5818 | 6071 | 6704 |
| 65° | 5412 | 5587 | 6260 |
| 70° | 4900 | 5085 | 5732 |
| 75° | 4276 | 4439 | 5009 |
| 80° | 3460 | 3521 | 3945 |
| 85° | 2056 | 2297 | 1936 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 280.3 | 3.6 |
| 10°-20° | 801.2 | 10.2 |
| 20°-30° | 1198.5 | 15.3 |
| 30°-40° | 1416.0 | 18.1 |
| 40°-50° | 1428.8 | 18.3 |
| 50°-60° | 1240.9 | 15.9 |
| 60°-70° | 889.8 | 11.4 |
| 70°-80° | 463.5 | 5.9 |
| 80°-90° | 97.8 | 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° | 2280.1 | 29.2 |
| 0°-40° | 3696.1 | 47.3 |
| 0°-60° | 6365.8 | 81.4 |
| 0°-90° | 7817.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7817.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2961 | 2961 | 2961 | 2961 | 2961 | |
| 5° | 2949 | 2946 | 2949 | 2949 | 2953 | 280 |
| 15° | 2816 | 2820 | 2840 | 2859 | 2867 | 794 |
| 25° | 2542 | 2558 | 2597 | 2648 | 2671 | 1171 |
| 35° | 2182 | 2197 | 2252 | 2334 | 2370 | 1364 |
| 45° | 1759 | 1778 | 1837 | 1931 | 1978 | 1358 |
| 55° | 1312 | 1324 | 1371 | 1461 | 1504 | 1172 |
| 65° | 850 | 846 | 877 | 944 | 983 | 840 |
| 75° | 411 | 407 | 427 | 458 | 482 | 439 |
| 85° | 67 | 74 | 74 | 67 | 63 | 95 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2961.2 | 2961.2 | 2961.2 | 2961.2 | 2961.2 |
| 2.5° | 2961.2 | 2957.3 | 2957.3 | 2957.3 | 2961.2 |
| 5° | 2949.4 | 2945.5 | 2949.4 | 2949.4 | 2953.3 |
| 7.5° | 2929.8 | 2925.9 | 2933.8 | 2937.7 | 2941.6 |
| 10° | 2902.4 | 2902.4 | 2914.2 | 2922.0 | 2925.9 |
| 12.5° | 2867.2 | 2867.2 | 2882.8 | 2894.6 | 2902.4 |
| 15° | 2816.3 | 2820.2 | 2839.8 | 2859.3 | 2867.2 |
| 17.5° | 2757.5 | 2769.3 | 2792.8 | 2820.2 | 2828.0 |
| 20° | 2698.7 | 2706.6 | 2734.0 | 2769.3 | 2784.9 |
| 22.5° | 2624.3 | 2636.1 | 2667.4 | 2714.4 | 2730.1 |
| 25° | 2542.1 | 2557.7 | 2596.9 | 2647.8 | 2671.3 |
| 27.5° | 2459.8 | 2471.6 | 2518.6 | 2577.3 | 2604.7 |
| 30° | 2369.7 | 2385.4 | 2436.3 | 2502.9 | 2534.2 |
| 32.5° | 2279.6 | 2291.4 | 2350.1 | 2420.6 | 2455.9 |
| 35° | 2181.7 | 2197.4 | 2252.2 | 2334.5 | 2369.7 |
| 37.5° | 2079.9 | 2099.5 | 2154.3 | 2240.5 | 2279.6 |
| 40° | 1978.0 | 1989.8 | 2052.5 | 2138.6 | 2185.6 |
| 42.5° | 1872.3 | 1887.9 | 1946.7 | 2040.7 | 2087.7 |
| 45° | 1758.7 | 1778.3 | 1837.0 | 1931.0 | 1978.0 |
| 47.5° | 1649.0 | 1668.6 | 1723.4 | 1817.4 | 1860.5 |
| 50° | 1539.3 | 1551.1 | 1605.9 | 1699.9 | 1750.9 |
| 52.5° | 1425.8 | 1437.5 | 1488.4 | 1578.5 | 1625.5 |
| 55° | 1312.2 | 1323.9 | 1370.9 | 1461.0 | 1504.1 |
| 57.5° | 1194.7 | 1202.5 | 1249.5 | 1331.7 | 1374.8 |
| 60° | 1081.1 | 1085.0 | 1128.1 | 1202.5 | 1245.6 |
| 62.5° | 959.6 | 963.6 | 994.9 | 1081.1 | 1120.2 |
| 65° | 850.0 | 846.1 | 877.4 | 944.0 | 983.1 |
| 67.5° | 736.4 | 736.4 | 763.8 | 822.6 | 853.9 |
| 70° | 622.8 | 622.8 | 646.3 | 697.2 | 728.5 |
| 72.5° | 517.0 | 517.0 | 536.6 | 575.8 | 599.3 |
| 75° | 411.3 | 407.4 | 426.9 | 458.3 | 481.8 |
| 77.5° | 313.4 | 313.4 | 321.2 | 348.6 | 364.3 |
| 80° | 223.3 | 223.3 | 227.2 | 242.8 | 254.6 |
| 82.5° | 141.0 | 141.0 | 141.0 | 148.8 | 152.8 |
| 85° | 66.6 | 74.4 | 74.4 | 66.6 | 62.7 |
| 87.5° | 31.3 | 31.3 | 27.4 | 27.4 | 27.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)