

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: P385205

Luminaire Tested: **24ID-60-L850-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385205  
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-60-L850-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

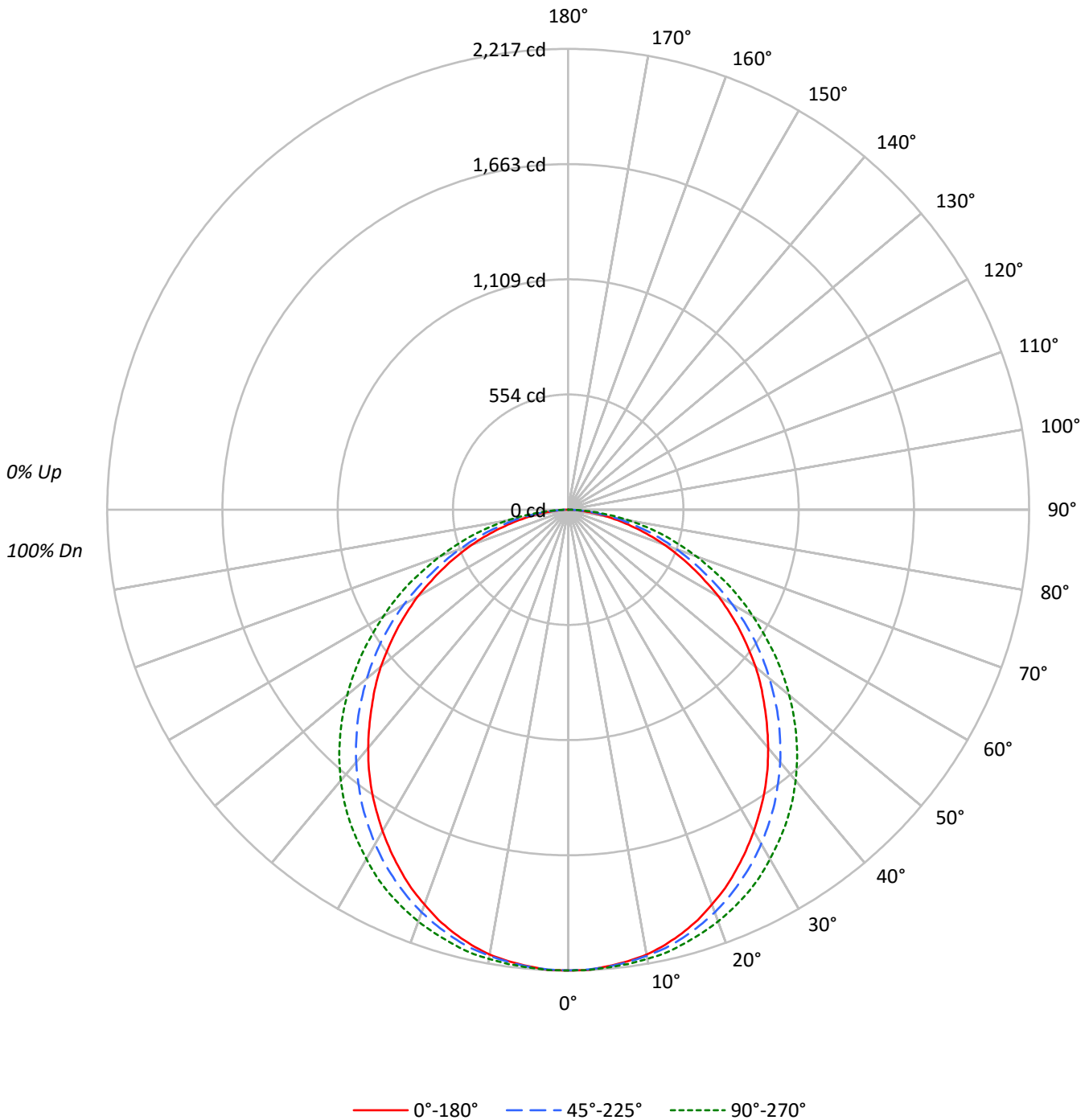
Lumens per Lamp: N/A  
Luminaire Lumens: 6154.6 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.6  
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 | 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°  | 2983 | 2983 | 2983 |
| 5°  | 2977 | 2981 | 2986 |
| 10° | 2969 | 2978 | 2999 |
| 15° | 2941 | 2971 | 3010 |
| 20° | 2894 | 2952 | 3018 |
| 25° | 2839 | 2922 | 3024 |
| 30° | 2773 | 2884 | 3015 |
| 35° | 2708 | 2840 | 3009 |
| 40° | 2628 | 2786 | 2988 |
| 45° | 2540 | 2723 | 2954 |
| 50° | 2463 | 2645 | 2905 |
| 55° | 2360 | 2563 | 2840 |
| 60° | 2247 | 2456 | 2765 |
| 65° | 2096 | 2313 | 2688 |
| 70° | 1930 | 2174 | 2577 |
| 75° | 1711 | 2018 | 2469 |
| 80° | 1444 | 1804 | 2285 |
| 85° | 1054 | 1389 | 1822 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 209.8  | 3.4       |
| 10°-20°   | 602.0  | 9.8       |
| 20°-30°   | 907.9  | 14.8      |
| 30°-40°   | 1083.9 | 17.6      |
| 40°-50°   | 1107.8 | 18.0      |
| 50°-60°   | 982.3  | 16.0      |
| 60°-70°   | 732.3  | 11.9      |
| 70°-80°   | 418.3  | 6.8       |
| 80°-90°   | 110.3  | 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°    | 1719.7 | 27.9      |
| 0°-40°    | 2803.6 | 45.6      |
| 0°-60°    | 4893.7 | 79.5      |
| 0°-90°    | 6154.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6154.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2217 | 2217  | 2217 | 2217  | 2217 |      |
| 5°  | 2204 | 2204  | 2207 | 2207  | 2210 | 210  |
| 15° | 2111 | 2117  | 2133 | 2152  | 2161 | 595  |
| 25° | 1912 | 1928  | 1968 | 2012  | 2037 | 881  |
| 35° | 1648 | 1670  | 1729 | 1798  | 1832 | 1030 |
| 45° | 1335 | 1363  | 1431 | 1509  | 1552 | 1031 |
| 55° | 1006 | 1024  | 1093 | 1170  | 1211 | 899  |
| 65° | 658  | 674   | 726  | 801   | 844  | 652  |
| 75° | 329  | 345   | 388  | 447   | 475  | 351  |
| 85° | 68   | 71    | 90   | 112   | 118  | 85   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2216.7 | 2216.7 | 2216.7 | 2216.7 | 2216.7 |
| 2.5°  | 2216.7 | 2213.6 | 2213.6 | 2213.6 | 2216.7 |
| 5°    | 2204.3 | 2204.3 | 2207.4 | 2207.4 | 2210.5 |
| 7.5°  | 2191.8 | 2191.8 | 2194.9 | 2198.0 | 2204.3 |
| 10°   | 2173.2 | 2173.2 | 2179.4 | 2188.7 | 2194.9 |
| 12.5° | 2145.3 | 2148.4 | 2160.8 | 2173.2 | 2182.5 |
| 15°   | 2111.1 | 2117.3 | 2132.8 | 2151.5 | 2160.8 |
| 17.5° | 2070.8 | 2077.0 | 2098.7 | 2123.5 | 2136.0 |
| 20°   | 2021.1 | 2033.5 | 2061.4 | 2092.5 | 2108.0 |
| 22.5° | 1971.4 | 1983.8 | 2018.0 | 2055.2 | 2073.9 |
| 25°   | 1912.4 | 1927.9 | 1968.3 | 2011.8 | 2036.6 |
| 27.5° | 1850.3 | 1869.0 | 1915.5 | 1965.2 | 1993.1 |
| 30°   | 1785.1 | 1806.9 | 1856.5 | 1912.4 | 1940.4 |
| 32.5° | 1716.8 | 1738.6 | 1794.4 | 1856.5 | 1887.6 |
| 35°   | 1648.5 | 1670.3 | 1729.3 | 1797.6 | 1831.7 |
| 37.5° | 1574.0 | 1595.8 | 1657.8 | 1732.4 | 1769.6 |
| 40°   | 1496.4 | 1521.2 | 1586.4 | 1661.0 | 1701.3 |
| 42.5° | 1415.7 | 1443.6 | 1508.8 | 1589.5 | 1629.9 |
| 45°   | 1335.0 | 1362.9 | 1431.2 | 1508.8 | 1552.3 |
| 47.5° | 1257.4 | 1279.1 | 1347.4 | 1428.1 | 1471.6 |
| 50°   | 1176.6 | 1195.3 | 1263.6 | 1344.3 | 1387.7 |
| 52.5° | 1089.7 | 1114.5 | 1179.7 | 1260.5 | 1300.8 |
| 55°   | 1005.9 | 1024.5 | 1092.8 | 1170.4 | 1210.8 |
| 57.5° | 919.0  | 937.6  | 1002.8 | 1080.4 | 1117.6 |
| 60°   | 835.1  | 853.8  | 912.7  | 990.4  | 1027.6 |
| 62.5° | 742.0  | 760.6  | 819.6  | 900.3  | 937.6  |
| 65°   | 658.2  | 673.7  | 726.5  | 801.0  | 844.4  |
| 67.5° | 574.3  | 589.9  | 639.5  | 710.9  | 745.1  |
| 70°   | 490.5  | 502.9  | 552.6  | 617.8  | 655.1  |
| 72.5° | 409.8  | 422.2  | 471.9  | 530.9  | 561.9  |
| 75°   | 329.1  | 344.6  | 388.1  | 447.1  | 475.0  |
| 77.5° | 254.6  | 270.1  | 307.4  | 360.1  | 385.0  |
| 80°   | 186.3  | 198.7  | 232.8  | 273.2  | 294.9  |
| 82.5° | 124.2  | 133.5  | 158.3  | 192.5  | 208.0  |
| 85°   | 68.3   | 71.4   | 90.0   | 111.8  | 118.0  |
| 87.5° | 27.9   | 27.9   | 34.2   | 37.3   | 40.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)