

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: P385204

Luminaire Tested: **24ID-60-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385204
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-L840-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

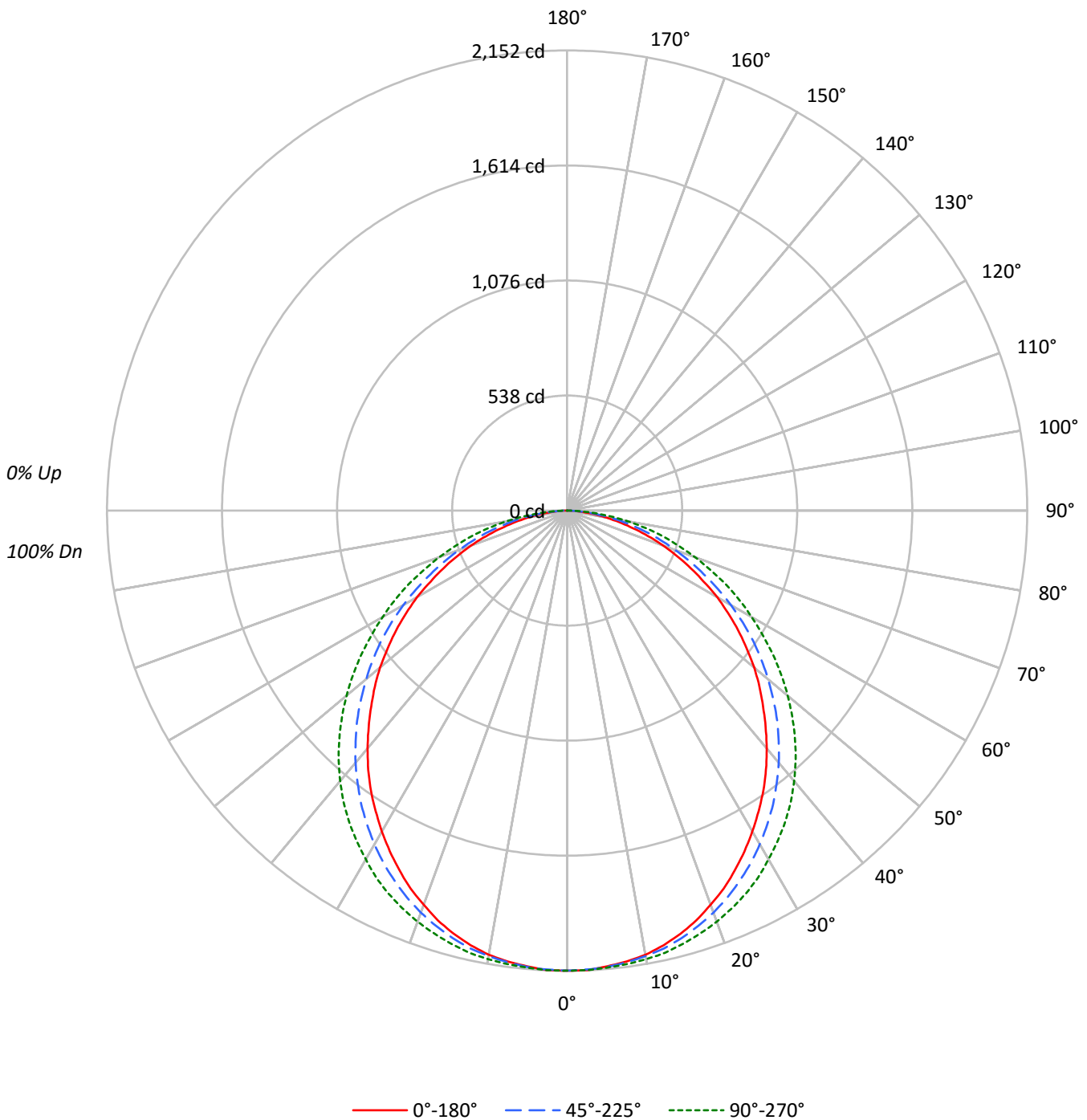
Lumens per Lamp: N/A
Luminaire Lumens: 5973.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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° | 2895 | 2895 | 2895 |
| 5° | 2890 | 2894 | 2898 |
| 10° | 2882 | 2890 | 2911 |
| 15° | 2854 | 2884 | 2921 |
| 20° | 2809 | 2865 | 2930 |
| 25° | 2756 | 2836 | 2935 |
| 30° | 2692 | 2799 | 2926 |
| 35° | 2628 | 2757 | 2920 |
| 40° | 2551 | 2705 | 2900 |
| 45° | 2465 | 2643 | 2867 |
| 50° | 2390 | 2567 | 2819 |
| 55° | 2290 | 2488 | 2757 |
| 60° | 2181 | 2384 | 2684 |
| 65° | 2034 | 2245 | 2609 |
| 70° | 1873 | 2110 | 2501 |
| 75° | 1660 | 1958 | 2397 |
| 80° | 1401 | 1751 | 2218 |
| 85° | 1024 | 1349 | 1768 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 203.7 | 3.4 |
| 10°-20° | 584.3 | 9.8 |
| 20°-30° | 881.2 | 14.8 |
| 30°-40° | 1052.0 | 17.6 |
| 40°-50° | 1075.2 | 18.0 |
| 50°-60° | 953.4 | 16.0 |
| 60°-70° | 710.7 | 11.9 |
| 70°-80° | 406.0 | 6.8 |
| 80°-90° | 107.1 | 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° | 1669.1 | 27.9 |
| 0°-40° | 2721.1 | 45.6 |
| 0°-60° | 4749.8 | 79.5 |
| 0°-90° | 5973.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5973.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2152 | 2152 | 2152 | 2152 | 2152 | |
| 5° | 2139 | 2139 | 2142 | 2142 | 2146 | 203 |
| 15° | 2049 | 2055 | 2070 | 2088 | 2097 | 577 |
| 25° | 1856 | 1871 | 1910 | 1953 | 1977 | 855 |
| 35° | 1600 | 1621 | 1678 | 1745 | 1778 | 1000 |
| 45° | 1296 | 1323 | 1389 | 1464 | 1507 | 1001 |
| 55° | 976 | 994 | 1061 | 1136 | 1175 | 872 |
| 65° | 639 | 654 | 705 | 777 | 820 | 633 |
| 75° | 319 | 334 | 377 | 434 | 461 | 341 |
| 85° | 66 | 69 | 87 | 108 | 114 | 83 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 24ID-60-L840-CNC

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2151.5 | 2151.5 | 2151.5 | 2151.5 | 2151.5 |
| 2.5° | 2151.5 | 2148.5 | 2148.5 | 2148.5 | 2151.5 |
| 5° | 2139.4 | 2139.4 | 2142.4 | 2142.4 | 2145.5 |
| 7.5° | 2127.4 | 2127.4 | 2130.4 | 2133.4 | 2139.4 |
| 10° | 2109.3 | 2109.3 | 2115.3 | 2124.4 | 2130.4 |
| 12.5° | 2082.2 | 2085.2 | 2097.2 | 2109.3 | 2118.3 |
| 15° | 2049.0 | 2055.1 | 2070.1 | 2088.2 | 2097.2 |
| 17.5° | 2009.9 | 2015.9 | 2037.0 | 2061.1 | 2073.1 |
| 20° | 1961.6 | 1973.7 | 2000.8 | 2031.0 | 2046.0 |
| 22.5° | 1913.4 | 1925.5 | 1958.6 | 1994.8 | 2012.9 |
| 25° | 1856.2 | 1871.2 | 1910.4 | 1952.6 | 1976.7 |
| 27.5° | 1795.9 | 1814.0 | 1859.2 | 1907.4 | 1934.5 |
| 30° | 1732.6 | 1753.7 | 1801.9 | 1856.2 | 1883.3 |
| 32.5° | 1666.3 | 1687.4 | 1741.7 | 1801.9 | 1832.1 |
| 35° | 1600.1 | 1621.1 | 1678.4 | 1744.7 | 1777.8 |
| 37.5° | 1527.7 | 1548.8 | 1609.1 | 1681.4 | 1717.6 |
| 40° | 1452.4 | 1476.5 | 1539.8 | 1612.1 | 1651.3 |
| 42.5° | 1374.1 | 1401.2 | 1464.5 | 1542.8 | 1582.0 |
| 45° | 1295.7 | 1322.8 | 1389.1 | 1464.5 | 1506.6 |
| 47.5° | 1220.4 | 1241.5 | 1307.8 | 1386.1 | 1428.3 |
| 50° | 1142.0 | 1160.1 | 1226.4 | 1304.8 | 1346.9 |
| 52.5° | 1057.7 | 1081.8 | 1145.0 | 1223.4 | 1262.6 |
| 55° | 976.3 | 994.4 | 1060.7 | 1136.0 | 1175.2 |
| 57.5° | 891.9 | 910.0 | 973.3 | 1048.6 | 1084.8 |
| 60° | 810.6 | 828.7 | 885.9 | 961.2 | 997.4 |
| 62.5° | 720.2 | 738.3 | 795.5 | 873.9 | 910.0 |
| 65° | 638.8 | 653.9 | 705.1 | 777.4 | 819.6 |
| 67.5° | 557.5 | 572.5 | 620.7 | 690.0 | 723.2 |
| 70° | 476.1 | 488.2 | 536.4 | 599.6 | 635.8 |
| 72.5° | 397.8 | 409.8 | 458.0 | 515.3 | 545.4 |
| 75° | 319.4 | 334.5 | 376.7 | 433.9 | 461.0 |
| 77.5° | 247.1 | 262.2 | 298.3 | 349.5 | 373.6 |
| 80° | 180.8 | 192.8 | 226.0 | 265.2 | 286.3 |
| 82.5° | 120.5 | 129.6 | 153.7 | 186.8 | 201.9 |
| 85° | 66.3 | 69.3 | 87.4 | 108.5 | 114.5 |
| 87.5° | 27.1 | 27.1 | 33.1 | 36.2 | 39.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)