

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: P412877

Luminaire Tested: **24PD-55-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-55-PP3-L840
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

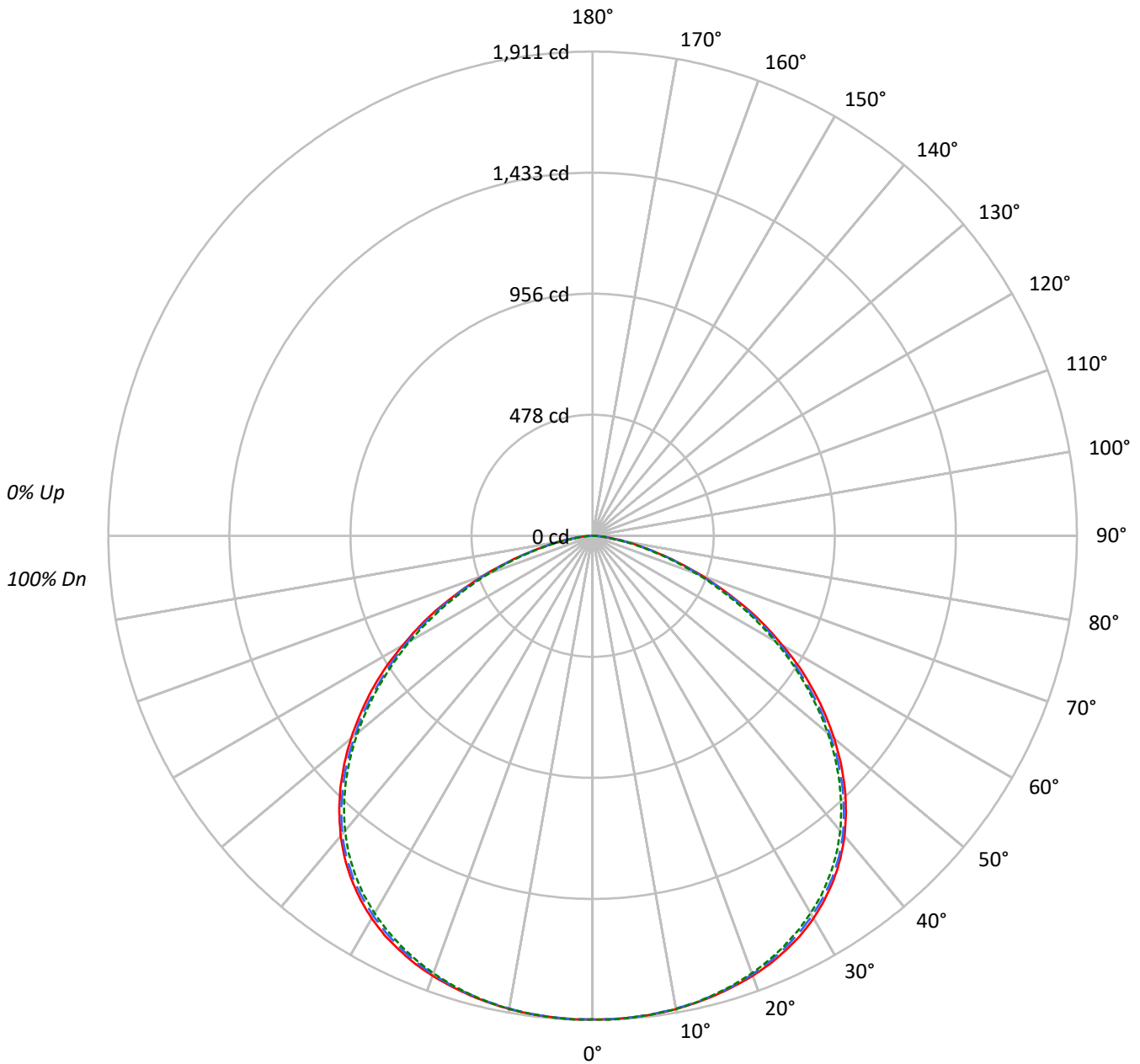
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5555.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.2
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 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 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 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 63 | 60 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2569 | 2569 | 2569 |
| 5° | 2576 | 2575 | 2576 |
| 10° | 2592 | 2589 | 2591 |
| 15° | 2614 | 2611 | 2609 |
| 20° | 2646 | 2637 | 2631 |
| 25° | 2679 | 2665 | 2653 |
| 30° | 2709 | 2690 | 2673 |
| 35° | 2724 | 2707 | 2683 |
| 40° | 2716 | 2700 | 2670 |
| 45° | 2678 | 2651 | 2622 |
| 50° | 2604 | 2562 | 2536 |
| 55° | 2496 | 2436 | 2405 |
| 60° | 2326 | 2285 | 2239 |
| 65° | 2109 | 2066 | 2006 |
| 70° | 1799 | 1767 | 1710 |
| 75° | 1405 | 1391 | 1325 |
| 80° | 1037 | 993 | 938 |
| 85° | 625 | 625 | 582 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 181.6 | 3.3 |
| 10°-20° | 530.0 | 9.5 |
| 20°-30° | 828.4 | 14.9 |
| 30°-40° | 1029.6 | 18.5 |
| 40°-50° | 1072.7 | 19.3 |
| 50°-60° | 930.8 | 16.8 |
| 60°-70° | 640.1 | 11.5 |
| 70°-80° | 288.8 | 5.2 |
| 80°-90° | 52.9 | 1.0 |
| 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° | 1540.1 | 27.7 |
| 0°-40° | 2569.6 | 46.3 |
| 0°-60° | 4573.2 | 82.3 |
| 0°-90° | 5555.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5555.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1909 | 1909 | 1909 | 1909 | 1909 | |
| 5° | 1907 | 1907 | 1906 | 1905 | 1907 | 182 |
| 15° | 1877 | 1877 | 1874 | 1872 | 1873 | 531 |
| 25° | 1805 | 1804 | 1795 | 1788 | 1787 | 833 |
| 35° | 1658 | 1658 | 1648 | 1639 | 1633 | 1036 |
| 45° | 1407 | 1408 | 1393 | 1383 | 1378 | 1083 |
| 55° | 1064 | 1058 | 1039 | 1026 | 1025 | 948 |
| 65° | 662 | 660 | 649 | 633 | 630 | 654 |
| 75° | 270 | 272 | 268 | 260 | 255 | 294 |
| 85° | 40 | 40 | 40 | 40 | 38 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 24PD-55-PP3-L840

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1909.1 | 1909.1 | 1909.1 | 1909.1 | 1909.1 |
| 2.5° | 1909.6 | 1909.6 | 1908.5 | 1906.9 | 1910.8 |
| 5° | 1906.9 | 1907.4 | 1906.3 | 1904.7 | 1907.4 |
| 7.5° | 1903.0 | 1903.5 | 1901.9 | 1900.2 | 1902.4 |
| 10° | 1896.9 | 1896.3 | 1894.7 | 1893.5 | 1896.3 |
| 12.5° | 1888.0 | 1887.4 | 1885.8 | 1884.7 | 1886.9 |
| 15° | 1876.9 | 1876.9 | 1874.1 | 1872.5 | 1873.0 |
| 17.5° | 1863.6 | 1863.6 | 1859.7 | 1855.8 | 1856.9 |
| 20° | 1848.0 | 1847.5 | 1841.9 | 1838.0 | 1837.5 |
| 22.5° | 1828.6 | 1828.6 | 1820.8 | 1815.8 | 1814.2 |
| 25° | 1804.7 | 1804.2 | 1795.3 | 1788.1 | 1787.0 |
| 27.5° | 1777.5 | 1776.4 | 1765.9 | 1758.7 | 1755.9 |
| 30° | 1743.7 | 1742.6 | 1731.5 | 1723.7 | 1720.3 |
| 32.5° | 1703.7 | 1705.4 | 1692.6 | 1683.7 | 1680.4 |
| 35° | 1658.2 | 1658.2 | 1648.2 | 1638.7 | 1633.2 |
| 37.5° | 1606.0 | 1606.0 | 1596.6 | 1587.1 | 1580.5 |
| 40° | 1546.6 | 1547.1 | 1537.2 | 1525.5 | 1519.9 |
| 42.5° | 1480.0 | 1481.1 | 1467.8 | 1458.3 | 1452.2 |
| 45° | 1407.3 | 1407.8 | 1393.4 | 1382.8 | 1377.8 |
| 47.5° | 1328.4 | 1327.3 | 1311.2 | 1302.3 | 1297.3 |
| 50° | 1244.0 | 1241.8 | 1224.1 | 1215.7 | 1211.3 |
| 52.5° | 1155.8 | 1151.3 | 1135.8 | 1123.6 | 1119.7 |
| 55° | 1064.2 | 1058.1 | 1038.6 | 1026.4 | 1025.3 |
| 57.5° | 968.7 | 961.5 | 945.4 | 933.7 | 929.3 |
| 60° | 864.3 | 862.7 | 849.3 | 835.5 | 832.1 |
| 62.5° | 766.6 | 761.6 | 750.0 | 733.3 | 731.7 |
| 65° | 662.3 | 659.5 | 648.9 | 633.4 | 630.1 |
| 67.5° | 554.6 | 557.4 | 548.5 | 534.6 | 530.1 |
| 70° | 457.4 | 459.1 | 449.1 | 436.3 | 434.7 |
| 72.5° | 359.7 | 362.5 | 354.2 | 345.8 | 344.2 |
| 75° | 270.3 | 271.5 | 267.6 | 260.4 | 254.8 |
| 77.5° | 192.1 | 196.0 | 191.5 | 186.5 | 182.1 |
| 80° | 133.8 | 127.7 | 128.2 | 126.0 | 121.0 |
| 82.5° | 80.5 | 77.7 | 77.2 | 74.9 | 72.7 |
| 85° | 40.5 | 40.0 | 40.5 | 40.0 | 37.7 |
| 87.5° | 13.3 | 14.4 | 15.0 | 15.0 | 13.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)