

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: P412525

Luminaire Tested: **24PD-50-PB1-L835**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-50-PB1-L835
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

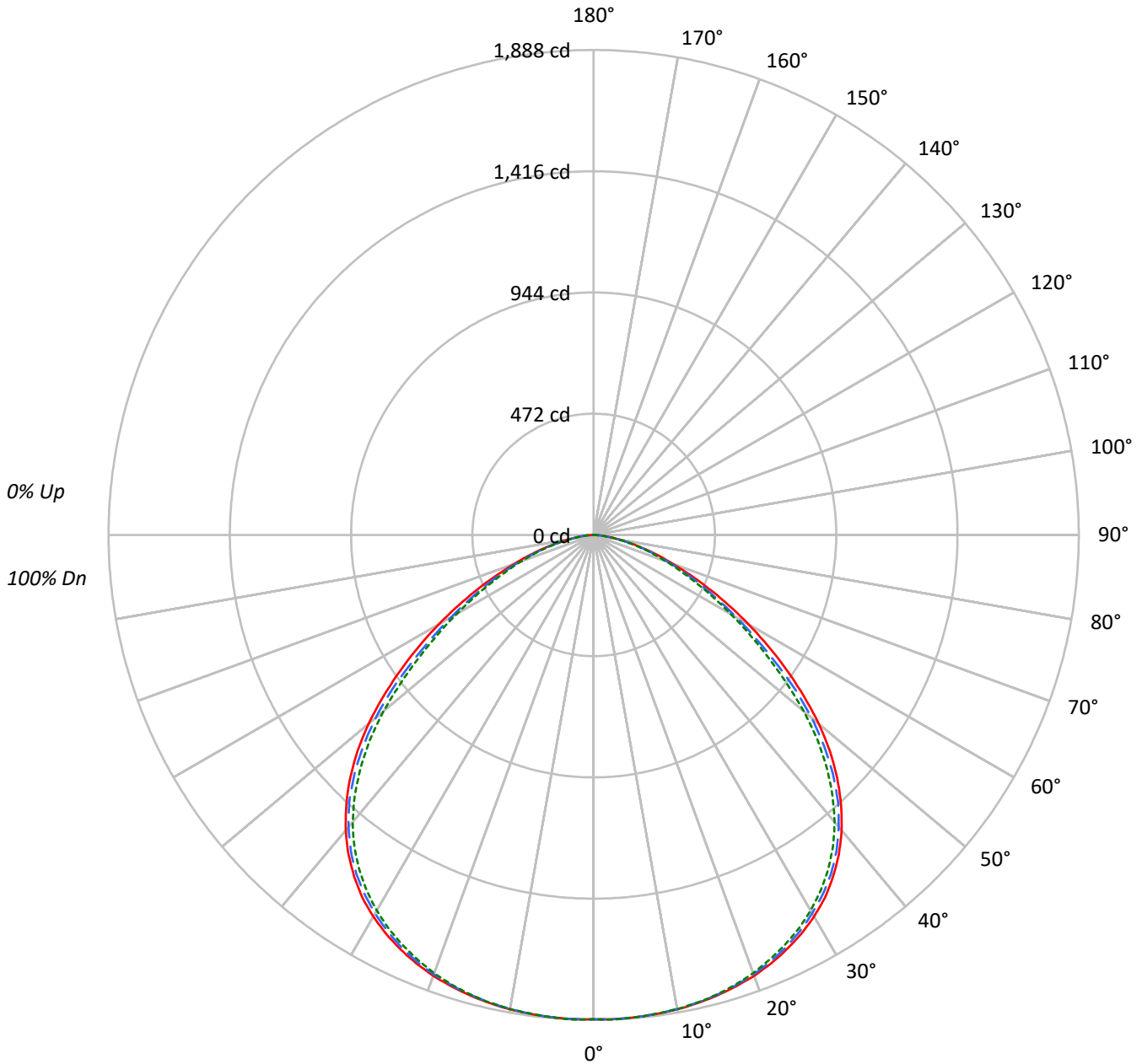
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5018.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.1
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





TEST NUMBER: P412525

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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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | | | | | | | | | | | | | | | | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 75 | 73 | | | | | | | | | | | | | | | | | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 | | | | | | | | | | | | | | | | | | | |
| 4 | 85 | 74 | 65 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 65 | 60 | 56 | 54 | | | | | | | | | | | | | | | | | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 6 | 72 | 60 | 51 | 45 | 70 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 8 | 63 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 | | | | | | | | | | | | | | | | | | | |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2537 | 2537 | 2537 |
| 5° | 2546 | 2546 | 2546 |
| 10° | 2563 | 2560 | 2561 |
| 15° | 2586 | 2582 | 2580 |
| 20° | 2615 | 2607 | 2599 |
| 25° | 2642 | 2629 | 2614 |
| 30° | 2665 | 2643 | 2623 |
| 35° | 2668 | 2645 | 2612 |
| 40° | 2637 | 2607 | 2563 |
| 45° | 2552 | 2505 | 2440 |
| 50° | 2393 | 2318 | 2234 |
| 55° | 2150 | 2023 | 1939 |
| 60° | 1872 | 1723 | 1657 |
| 65° | 1575 | 1457 | 1394 |
| 70° | 1284 | 1219 | 1170 |
| 75° | 1029 | 992 | 951 |
| 80° | 790 | 728 | 709 |
| 85° | 494 | 479 | 479 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.5 | 3.6 |
| 10°-20° | 524.1 | 10.4 |
| 20°-30° | 816.4 | 16.3 |
| 30°-40° | 1004.4 | 20.0 |
| 40°-50° | 1008.8 | 20.1 |
| 50°-60° | 777.5 | 15.5 |
| 60°-70° | 461.6 | 9.2 |
| 70°-80° | 205.5 | 4.1 |
| 80°-90° | 40.1 | 0.8 |
| 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° | 1520.0 | 30.3 |
| 0°-40° | 2524.4 | 50.3 |
| 0°-60° | 4310.8 | 85.9 |
| 0°-90° | 5018.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5018.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1886 | 1886 | 1886 | 1886 | 1886 | |
| 5° | 1885 | 1885 | 1885 | 1883 | 1885 | 180 |
| 15° | 1856 | 1856 | 1854 | 1851 | 1852 | 525 |
| 25° | 1780 | 1779 | 1771 | 1763 | 1761 | 821 |
| 35° | 1624 | 1622 | 1610 | 1597 | 1590 | 1014 |
| 45° | 1341 | 1338 | 1316 | 1294 | 1282 | 1029 |
| 55° | 917 | 899 | 862 | 836 | 827 | 820 |
| 65° | 495 | 473 | 458 | 440 | 438 | 494 |
| 75° | 198 | 194 | 191 | 184 | 183 | 214 |
| 85° | 32 | 30 | 31 | 30 | 31 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412525

CATALOG NUMBER: 24PD-50-PB1-L835

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1885.8 | 1885.8 | 1885.8 | 1885.8 | <i>1885.8</i> |
| 2.5° | <i>1886.8</i> | <i>1886.3</i> | <i>1886.3</i> | <i>1884.3</i> | <i>1888.3</i> |
| 5° | 1884.8 | 1885.3 | 1884.8 | 1882.8 | <i>1884.8</i> |
| 7.5° | 1880.8 | 1881.3 | 1880.3 | 1878.3 | <i>1880.3</i> |
| 10° | 1875.8 | 1875.8 | 1873.8 | 1872.8 | <i>1874.3</i> |
| 12.5° | 1867.3 | 1867.3 | 1865.3 | 1863.8 | <i>1865.3</i> |
| 15° | 1856.3 | 1856.3 | 1853.8 | 1850.8 | <i>1852.3</i> |
| 17.5° | 1842.8 | 1842.8 | 1838.8 | 1834.8 | <i>1835.8</i> |
| 20° | 1826.3 | 1825.8 | 1820.4 | 1814.9 | <i>1815.4</i> |
| 22.5° | 1805.4 | 1804.9 | 1797.9 | 1791.4 | <i>1789.4</i> |
| 25° | 1779.9 | 1779.4 | 1770.9 | 1762.9 | <i>1760.9</i> |
| 27.5° | 1750.4 | 1748.4 | 1738.9 | 1729.9 | <i>1727.9</i> |
| 30° | 1715.4 | 1713.9 | 1701.4 | 1692.4 | <i>1688.4</i> |
| 32.5° | 1674.9 | 1670.9 | 1659.4 | 1648.4 | <i>1642.9</i> |
| 35° | 1624.4 | 1621.9 | 1610.4 | 1596.9 | <i>1590.4</i> |
| 37.5° | 1567.4 | 1564.9 | 1552.4 | 1537.5 | <i>1530.0</i> |
| 40° | 1501.5 | 1499.5 | 1484.0 | 1468.5 | <i>1459.0</i> |
| 42.5° | 1425.5 | 1424.0 | 1407.5 | 1386.0 | <i>1376.0</i> |
| 45° | 1341.0 | 1337.5 | 1316.5 | 1294.5 | <i>1282.5</i> |
| 47.5° | 1247.1 | 1241.1 | 1215.6 | 1194.6 | <i>1181.6</i> |
| 50° | 1143.1 | 1135.1 | 1107.6 | 1080.6 | <i>1067.1</i> |
| 52.5° | 1030.6 | 1016.6 | 988.1 | 957.2 | <i>944.2</i> |
| 55° | 916.7 | 899.2 | 862.2 | 836.2 | <i>826.7</i> |
| 57.5° | 805.2 | 779.7 | 744.7 | 726.2 | <i>716.7</i> |
| 60° | 695.8 | 667.8 | 640.3 | 622.3 | <i>615.8</i> |
| 62.5° | 591.3 | 567.8 | 544.3 | 526.3 | <i>522.3</i> |
| 65° | 494.8 | 473.3 | 457.8 | 440.3 | <i>437.8</i> |
| 67.5° | 404.9 | 394.9 | 380.9 | 365.9 | <i>363.9</i> |
| 70° | 326.4 | 322.4 | 309.9 | 300.9 | <i>297.4</i> |
| 72.5° | 260.4 | 256.4 | 247.4 | 240.9 | <i>239.9</i> |
| 75° | 197.9 | 193.9 | 190.9 | 184.4 | <i>182.9</i> |
| 77.5° | 140.9 | 141.4 | 139.0 | 135.5 | <i>136.5</i> |
| 80° | 102.0 | 96.0 | 94.0 | 92.0 | <i>91.5</i> |
| 82.5° | 62.5 | 59.0 | 57.5 | 57.0 | <i>58.0</i> |
| 85° | 32.0 | 30.5 | 31.0 | 29.5 | <i>31.0</i> |
| 87.5° | 11.0 | 11.0 | 11.5 | 11.0 | <i>12.0</i> |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | <i>0.0</i> |



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







(END OF REPORT)