

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: P412761

Luminaire Tested: **22PD-55-PP3-L850**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-55-PP3-L850
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

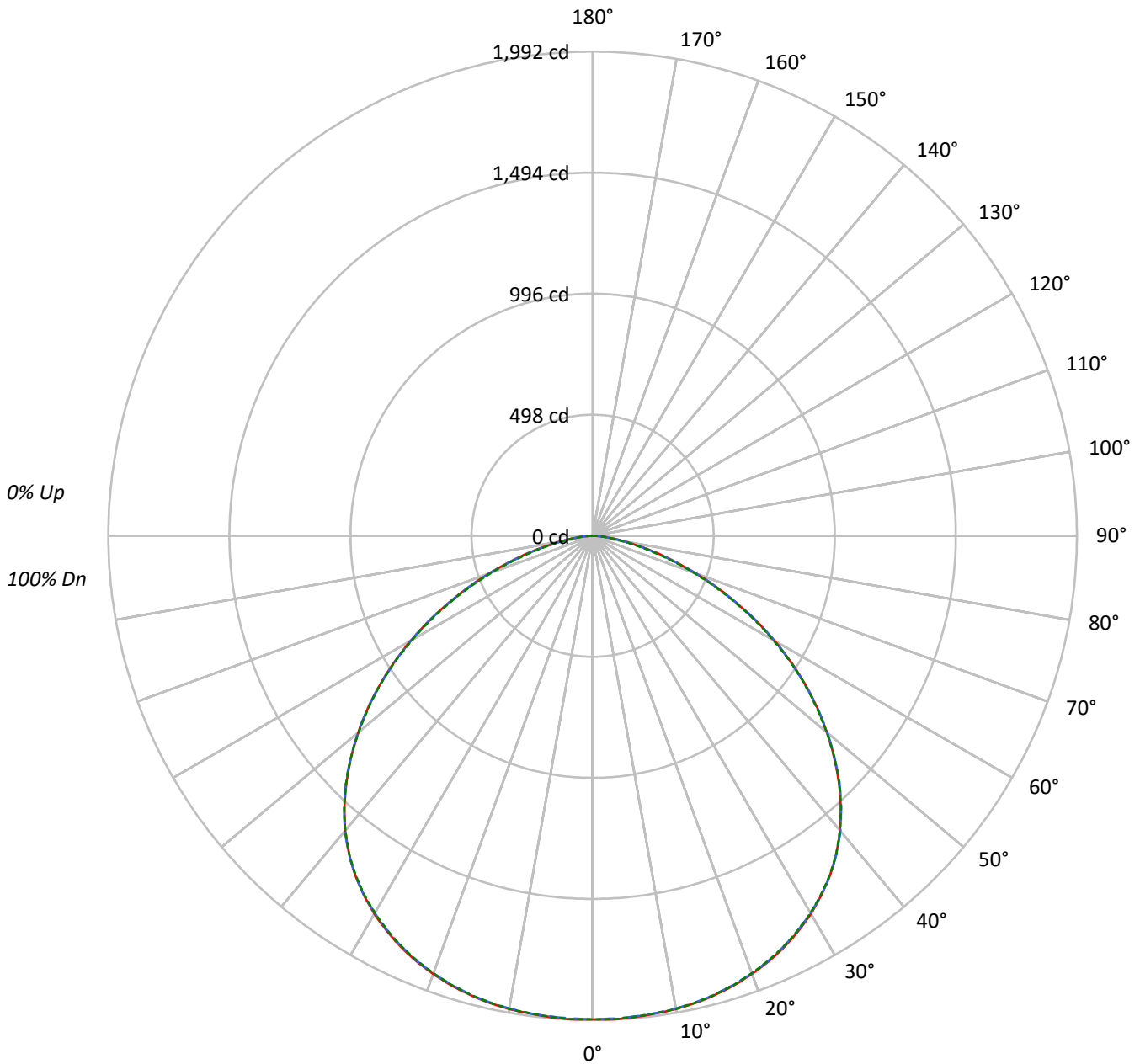
Lumens per Lamp: N/A
Luminaire Lumens: 5707.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 47 | 57 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 48 | 42 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 52 | 44 | 38 | 64 | 52 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 | | | | | | | | | | | | | | | | | | | |
| 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° | 5353 | 5353 | 5353 |
| 5° | 5370 | 5363 | 5366 |
| 10° | 5403 | 5395 | 5399 |
| 15° | 5445 | 5440 | 5440 |
| 20° | 5493 | 5487 | 5485 |
| 25° | 5541 | 5532 | 5532 |
| 30° | 5580 | 5570 | 5568 |
| 35° | 5596 | 5596 | 5590 |
| 40° | 5560 | 5571 | 5560 |
| 45° | 5449 | 5464 | 5457 |
| 50° | 5266 | 5274 | 5261 |
| 55° | 5013 | 5001 | 4992 |
| 60° | 4654 | 4643 | 4607 |
| 65° | 4157 | 4153 | 4106 |
| 70° | 3553 | 3533 | 3454 |
| 75° | 2831 | 2748 | 2666 |
| 80° | 2018 | 1976 | 1874 |
| 85° | 1312 | 1312 | 1272 |



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CATALOG NUMBER: 22PD-55-PP3-L850

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 189.2 | 3.3 |
| 10°-20° | 551.8 | 9.7 |
| 20°-30° | 859.2 | 15.1 |
| 30°-40° | 1063.4 | 18.6 |
| 40°-50° | 1102.7 | 19.3 |
| 50°-60° | 950.4 | 16.7 |
| 60°-70° | 646.2 | 11.3 |
| 70°-80° | 289.1 | 5.1 |
| 80°-90° | 55.1 | 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° | 1600.1 | 28.0 |
| 0°-40° | 2663.5 | 46.7 |
| 0°-60° | 4716.6 | 82.6 |
| 0°-90° | 5707.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5707.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1989 | 1989 | 1989 | 1989 | 1989 | |
| 5° | 1988 | 1984 | 1985 | 1984 | 1986 | 189 |
| 15° | 1955 | 1951 | 1953 | 1951 | 1953 | 553 |
| 25° | 1866 | 1864 | 1863 | 1862 | 1863 | 861 |
| 35° | 1704 | 1702 | 1704 | 1701 | 1702 | 1064 |
| 45° | 1432 | 1431 | 1436 | 1433 | 1434 | 1102 |
| 55° | 1069 | 1065 | 1066 | 1064 | 1064 | 953 |
| 65° | 653 | 658 | 652 | 650 | 645 | 648 |
| 75° | 272 | 273 | 264 | 263 | 256 | 293 |
| 85° | 42 | 44 | 42 | 41 | 41 | 56 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 22PD-55-PP3-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1989.1 | 1989.1 | 1989.1 | 1989.1 | 1989.1 |
| 2.5° | 1991.8 | 1987.8 | 1987.8 | 1988.5 | 1990.5 |
| 5° | 1987.8 | 1983.8 | 1985.2 | 1984.5 | 1986.5 |
| 7.5° | 1982.5 | 1979.2 | 1981.2 | 1979.8 | 1981.2 |
| 10° | 1977.2 | 1973.9 | 1974.5 | 1973.9 | 1975.9 |
| 12.5° | 1967.9 | 1963.9 | 1965.2 | 1965.2 | 1965.9 |
| 15° | 1954.6 | 1951.3 | 1952.6 | 1951.3 | 1952.6 |
| 17.5° | 1938.7 | 1934.7 | 1935.3 | 1934.7 | 1936.0 |
| 20° | 1918.1 | 1915.4 | 1916.1 | 1914.8 | 1915.4 |
| 22.5° | 1894.8 | 1891.5 | 1892.2 | 1890.8 | 1890.8 |
| 25° | 1866.3 | 1863.6 | 1863.0 | 1862.3 | 1863.0 |
| 27.5° | 1833.1 | 1829.7 | 1829.7 | 1829.1 | 1829.1 |
| 30° | 1795.9 | 1792.6 | 1792.6 | 1791.9 | 1791.9 |
| 32.5° | 1752.0 | 1750.7 | 1751.4 | 1750.0 | 1749.4 |
| 35° | 1703.6 | 1701.6 | 1703.6 | 1700.9 | 1701.6 |
| 37.5° | 1647.1 | 1644.4 | 1648.4 | 1645.8 | 1646.4 |
| 40° | 1582.7 | 1581.4 | 1586.0 | 1584.0 | 1582.7 |
| 42.5° | 1511.0 | 1511.0 | 1512.9 | 1513.6 | 1512.3 |
| 45° | 1431.9 | 1430.6 | 1435.9 | 1432.6 | 1433.9 |
| 47.5° | 1346.9 | 1344.9 | 1348.9 | 1348.2 | 1347.6 |
| 50° | 1257.9 | 1256.6 | 1259.9 | 1256.6 | 1256.6 |
| 52.5° | 1165.6 | 1164.9 | 1165.6 | 1162.3 | 1161.6 |
| 55° | 1068.6 | 1064.6 | 1066.0 | 1064.0 | 1064.0 |
| 57.5° | 967.7 | 963.0 | 963.7 | 963.0 | 963.7 |
| 60° | 864.7 | 863.4 | 862.7 | 859.4 | 856.1 |
| 62.5° | 759.1 | 760.5 | 759.8 | 755.1 | 751.8 |
| 65° | 652.9 | 658.2 | 652.2 | 650.2 | 644.9 |
| 67.5° | 552.6 | 554.6 | 550.6 | 545.9 | 540.0 |
| 70° | 451.6 | 455.6 | 449.0 | 444.3 | 439.0 |
| 72.5° | 355.3 | 358.0 | 352.0 | 349.3 | 342.7 |
| 75° | 272.3 | 273.0 | 264.3 | 263.0 | 256.4 |
| 77.5° | 193.9 | 196.6 | 189.9 | 189.9 | 183.3 |
| 80° | 130.2 | 134.8 | 127.5 | 125.5 | 120.9 |
| 82.5° | 81.7 | 82.4 | 80.4 | 78.4 | 76.4 |
| 85° | 42.5 | 43.8 | 42.5 | 41.2 | 41.2 |
| 87.5° | 15.9 | 16.6 | 15.9 | 15.3 | 15.9 |
| 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)