

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: P413094

Luminaire Tested: **22PD-50-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-50-PC3-L850
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

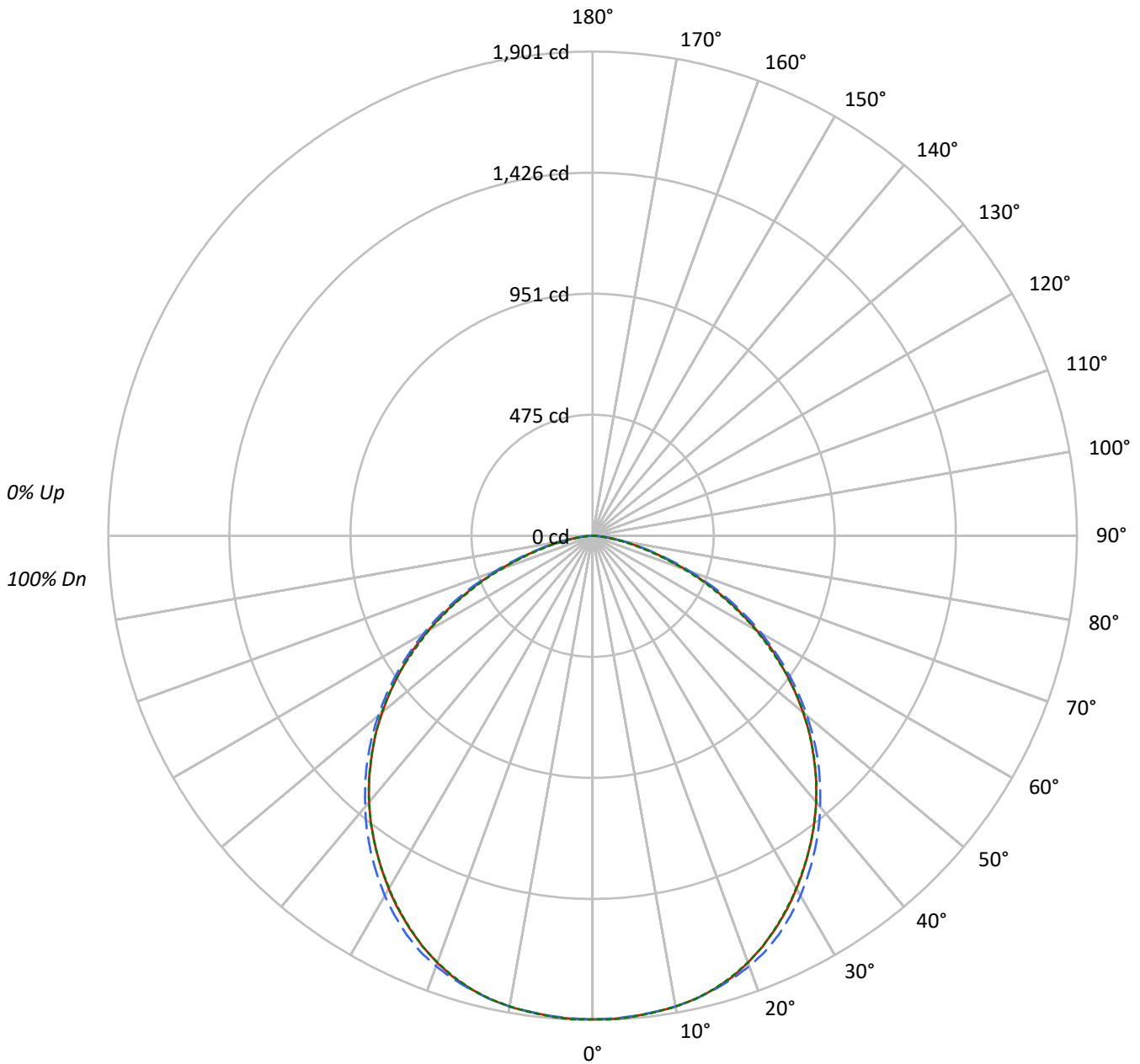
Lumens per Lamp: N/A
Luminaire Lumens: 5100.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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 | 110 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5109 | 5109 | 5109 |
| 5° | 5115 | 5112 | 5118 |
| 10° | 5128 | 5126 | 5128 |
| 15° | 5134 | 5141 | 5132 |
| 20° | 5108 | 5149 | 5105 |
| 25° | 5049 | 5131 | 5045 |
| 30° | 4974 | 5071 | 4966 |
| 35° | 4888 | 4985 | 4888 |
| 40° | 4796 | 4881 | 4796 |
| 45° | 4669 | 4761 | 4676 |
| 50° | 4510 | 4598 | 4527 |
| 55° | 4300 | 4385 | 4300 |
| 60° | 4010 | 4111 | 3984 |
| 65° | 3599 | 3726 | 3552 |
| 70° | 3079 | 3188 | 2988 |
| 75° | 2442 | 2511 | 2316 |
| 80° | 1750 | 1815 | 1666 |
| 85° | 1155 | 1192 | 1081 |



TEST NUMBER: P413094

CATALOG NUMBER: 22PD-50-PC3-L850

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 180.1 | 3.5 |
| 10°-20° | 520.3 | 10.2 |
| 20°-30° | 789.3 | 15.5 |
| 30°-40° | 942.7 | 18.5 |
| 40°-50° | 958.7 | 18.8 |
| 50°-60° | 829.2 | 16.3 |
| 60°-70° | 570.6 | 11.2 |
| 70°-80° | 259.0 | 5.1 |
| 80°-90° | 50.1 | 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° | 1489.7 | 29.2 |
| 0°-40° | 2432.4 | 47.7 |
| 0°-60° | 4220.3 | 82.8 |
| 0°-90° | 5100.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5100.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1898 | 1898 | 1898 | 1898 | 1898 | |
| 5° | 1894 | 1892 | 1892 | 1892 | 1895 | 180 |
| 15° | 1843 | 1844 | 1845 | 1842 | 1842 | 520 |
| 25° | 1700 | 1716 | 1728 | 1712 | 1699 | 783 |
| 35° | 1488 | 1514 | 1517 | 1512 | 1488 | 931 |
| 45° | 1227 | 1249 | 1251 | 1250 | 1229 | 946 |
| 55° | 917 | 932 | 935 | 933 | 917 | 819 |
| 65° | 565 | 581 | 585 | 580 | 558 | 561 |
| 75° | 235 | 244 | 242 | 239 | 223 | 253 |
| 85° | 37 | 40 | 39 | 37 | 35 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P413094

CATALOG NUMBER: 22PD-50-PC3-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1898.4 | 1898.4 | 1898.4 | 1898.4 | 1898.4 |
| 2.5° | 1898.4 | 1896.0 | 1896.6 | 1897.2 | 1900.8 |
| 5° | 1893.6 | 1891.8 | 1892.4 | 1892.4 | 1894.8 |
| 7.5° | 1885.7 | 1885.1 | 1885.1 | 1884.5 | 1886.3 |
| 10° | 1876.7 | 1875.5 | 1876.1 | 1875.5 | 1876.7 |
| 12.5° | 1862.8 | 1862.8 | 1863.4 | 1861.6 | 1862.8 |
| 15° | 1842.9 | 1844.1 | 1845.3 | 1842.3 | 1842.3 |
| 17.5° | 1817.5 | 1820.5 | 1823.5 | 1818.1 | 1815.1 |
| 20° | 1783.7 | 1790.9 | 1798.2 | 1789.7 | 1782.5 |
| 22.5° | 1744.4 | 1756.5 | 1767.4 | 1754.1 | 1744.4 |
| 25° | 1700.4 | 1715.5 | 1728.1 | 1712.4 | 1699.2 |
| 27.5° | 1652.7 | 1669.6 | 1681.6 | 1668.4 | 1650.2 |
| 30° | 1600.7 | 1621.3 | 1632.1 | 1619.5 | 1598.3 |
| 32.5° | 1545.2 | 1569.3 | 1576.0 | 1568.1 | 1544.0 |
| 35° | 1487.8 | 1514.4 | 1517.4 | 1512.0 | 1487.8 |
| 37.5° | 1428.0 | 1453.4 | 1455.8 | 1452.8 | 1428.0 |
| 40° | 1365.2 | 1388.8 | 1389.4 | 1389.4 | 1365.2 |
| 42.5° | 1298.2 | 1321.2 | 1321.2 | 1320.6 | 1300.0 |
| 45° | 1227.0 | 1249.3 | 1251.1 | 1249.9 | 1228.8 |
| 47.5° | 1156.3 | 1173.2 | 1176.2 | 1173.8 | 1155.1 |
| 50° | 1077.2 | 1094.7 | 1098.4 | 1095.9 | 1081.4 |
| 52.5° | 998.7 | 1015.0 | 1018.6 | 1016.8 | 1000.5 |
| 55° | 916.6 | 932.3 | 934.7 | 932.9 | 916.6 |
| 57.5° | 837.5 | 847.8 | 850.2 | 846.6 | 826.0 |
| 60° | 745.1 | 759.6 | 763.8 | 759.6 | 740.3 |
| 62.5° | 655.8 | 671.5 | 675.1 | 669.0 | 648.5 |
| 65° | 565.2 | 580.9 | 585.1 | 580.3 | 557.9 |
| 67.5° | 479.4 | 490.9 | 494.5 | 489.1 | 468.6 |
| 70° | 391.3 | 405.8 | 405.2 | 397.9 | 379.8 |
| 72.5° | 304.3 | 324.3 | 320.6 | 316.4 | 296.5 |
| 75° | 234.9 | 243.9 | 241.5 | 239.1 | 222.8 |
| 77.5° | 167.9 | 178.7 | 172.7 | 173.3 | 159.4 |
| 80° | 112.9 | 123.2 | 117.1 | 114.7 | 107.5 |
| 82.5° | 71.9 | 76.1 | 74.9 | 73.7 | 67.0 |
| 85° | 37.4 | 39.9 | 38.6 | 37.4 | 35.0 |
| 87.5° | 14.5 | 15.7 | 14.5 | 14.5 | 13.3 |
| 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)