

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: P413106

Luminaire Tested: **22PD-55-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413106
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-55-PC3-L935
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

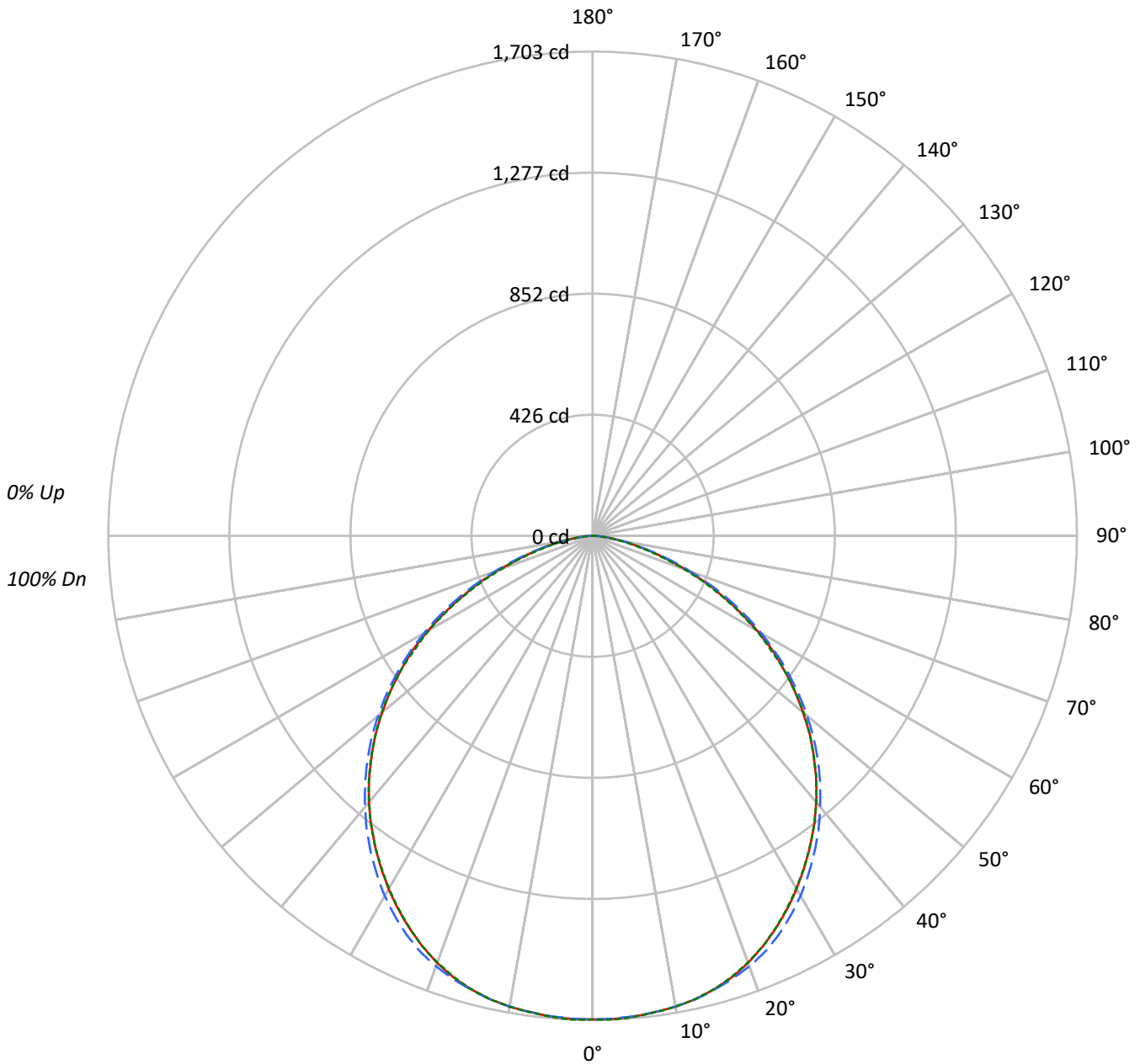
Lumens per Lamp: N/A
Luminaire Lumens: 4570.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | 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 | 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° | 4578 | 4578 | 4578 |
| 5° | 4583 | 4581 | 4586 |
| 10° | 4595 | 4594 | 4595 |
| 15° | 4601 | 4606 | 4599 |
| 20° | 4577 | 4614 | 4574 |
| 25° | 4524 | 4598 | 4521 |
| 30° | 4457 | 4544 | 4450 |
| 35° | 4380 | 4467 | 4380 |
| 40° | 4298 | 4373 | 4298 |
| 45° | 4184 | 4266 | 4190 |
| 50° | 4041 | 4120 | 4057 |
| 55° | 3853 | 3930 | 3853 |
| 60° | 3594 | 3684 | 3570 |
| 65° | 3224 | 3338 | 3184 |
| 70° | 2758 | 2857 | 2677 |
| 75° | 2189 | 2250 | 2076 |
| 80° | 1568 | 1627 | 1492 |
| 85° | 1034 | 1068 | 969 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.4 | 3.5 |
| 10°-20° | 466.2 | 10.2 |
| 20°-30° | 707.3 | 15.5 |
| 30°-40° | 844.7 | 18.5 |
| 40°-50° | 859.1 | 18.8 |
| 50°-60° | 743.1 | 16.3 |
| 60°-70° | 511.3 | 11.2 |
| 70°-80° | 232.1 | 5.1 |
| 80°-90° | 44.9 | 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° | 1334.9 | 29.2 |
| 0°-40° | 2179.6 | 47.7 |
| 0°-60° | 3781.7 | 82.8 |
| 0°-90° | 4570.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4570.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1701 | 1701 | 1701 | 1701 | 1701 | |
| 5° | 1697 | 1695 | 1696 | 1696 | 1698 | 161 |
| 15° | 1651 | 1652 | 1654 | 1651 | 1651 | 466 |
| 25° | 1524 | 1537 | 1548 | 1534 | 1523 | 702 |
| 35° | 1333 | 1357 | 1360 | 1355 | 1333 | 834 |
| 45° | 1100 | 1120 | 1121 | 1120 | 1101 | 848 |
| 55° | 821 | 835 | 838 | 836 | 821 | 734 |
| 65° | 506 | 520 | 524 | 520 | 500 | 502 |
| 75° | 210 | 219 | 216 | 214 | 200 | 226 |
| 85° | 34 | 36 | 35 | 34 | 31 | 44 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P413106

CATALOG NUMBER: 22PD-55-PC3-L935

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1701.1 | 1701.1 | 1701.1 | 1701.1 | 1701.1 |
| 2.5° | 1701.1 | 1699.0 | 1699.5 | 1700.0 | 1703.3 |
| 5° | 1696.8 | 1695.2 | 1695.7 | 1695.7 | 1697.9 |
| 7.5° | 1689.8 | 1689.2 | 1689.2 | 1688.7 | 1690.3 |
| 10° | 1681.7 | 1680.6 | 1681.1 | 1680.6 | 1681.7 |
| 12.5° | 1669.2 | 1669.2 | 1669.7 | 1668.1 | 1669.2 |
| 15° | 1651.4 | 1652.4 | 1653.5 | 1650.8 | 1650.8 |
| 17.5° | 1628.6 | 1631.3 | 1634.0 | 1629.2 | 1626.5 |
| 20° | 1598.3 | 1604.8 | 1611.3 | 1603.7 | 1597.2 |
| 22.5° | 1563.2 | 1574.0 | 1583.7 | 1571.8 | 1563.2 |
| 25° | 1523.7 | 1537.2 | 1548.5 | 1534.5 | 1522.6 |
| 27.5° | 1480.9 | 1496.1 | 1506.9 | 1495.0 | 1478.7 |
| 30° | 1434.4 | 1452.8 | 1462.5 | 1451.2 | 1432.2 |
| 32.5° | 1384.6 | 1406.2 | 1412.2 | 1405.2 | 1383.5 |
| 35° | 1333.2 | 1357.0 | 1359.7 | 1354.8 | 1333.2 |
| 37.5° | 1279.6 | 1302.4 | 1304.5 | 1301.8 | 1279.6 |
| 40° | 1223.4 | 1244.5 | 1245.0 | 1245.0 | 1223.4 |
| 42.5° | 1163.3 | 1183.9 | 1183.9 | 1183.3 | 1164.9 |
| 45° | 1099.5 | 1119.5 | 1121.1 | 1120.0 | 1101.1 |
| 47.5° | 1036.2 | 1051.3 | 1054.0 | 1051.8 | 1035.1 |
| 50° | 965.3 | 981.0 | 984.2 | 982.0 | 969.1 |
| 52.5° | 894.9 | 909.5 | 912.8 | 911.2 | 896.6 |
| 55° | 821.3 | 835.4 | 837.6 | 836.0 | 821.3 |
| 57.5° | 750.5 | 759.7 | 761.8 | 758.6 | 740.2 |
| 60° | 667.7 | 680.7 | 684.5 | 680.7 | 663.4 |
| 62.5° | 587.6 | 601.7 | 604.9 | 599.5 | 581.1 |
| 65° | 506.4 | 520.5 | 524.3 | 520.0 | 500.0 |
| 67.5° | 429.6 | 439.9 | 443.1 | 438.3 | 419.9 |
| 70° | 350.6 | 363.6 | 363.1 | 356.6 | 340.3 |
| 72.5° | 272.7 | 290.6 | 287.3 | 283.5 | 265.7 |
| 75° | 210.5 | 218.6 | 216.4 | 214.3 | 199.7 |
| 77.5° | 150.4 | 160.2 | 154.7 | 155.3 | 142.8 |
| 80° | 101.2 | 110.4 | 105.0 | 102.8 | 96.3 |
| 82.5° | 64.4 | 68.2 | 67.1 | 66.0 | 60.1 |
| 85° | 33.5 | 35.7 | 34.6 | 33.5 | 31.4 |
| 87.5° | 13.0 | 14.1 | 13.0 | 13.0 | 11.9 |
| 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)