

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: P506364

Luminaire Tested: **22PD-55-PR1-L935**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-55-PR1-L935
Description: 5500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

Summary

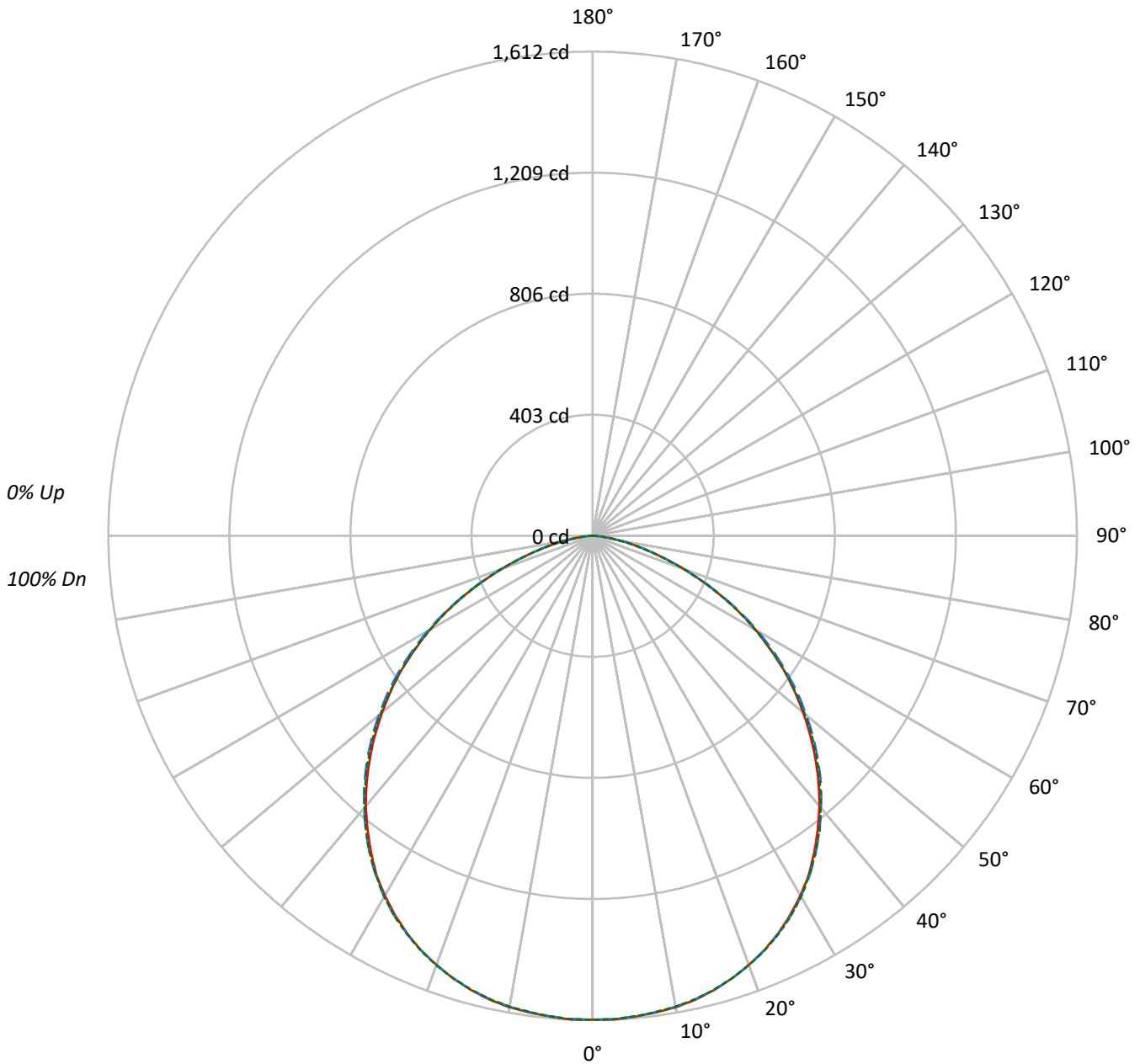
Lumens per Lamp: N/A
Luminaire Lumens: 4305.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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 | | | | 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 | | | | 100 |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | 85 | | | | 85 |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | 72 | | | | 72 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 | | | | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | | | 53 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | | 46 |
| 6 | 71 | 58 | 50 | 43 | 70 | 58 | 49 | 43 | 56 | 48 | 43 | 54 | 48 | 43 | 52 | 47 | 42 | 40 | | | | 40 |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 36 | | | | 36 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 29 | | | | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 | | | | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4335 | 4335 | 4335 |
| 5° | 4342 | 4339 | 4339 |
| 10° | 4355 | 4349 | 4349 |
| 15° | 4361 | 4356 | 4358 |
| 20° | 4355 | 4353 | 4356 |
| 25° | 4336 | 4341 | 4344 |
| 30° | 4297 | 4310 | 4312 |
| 35° | 4225 | 4248 | 4246 |
| 40° | 4126 | 4154 | 4149 |
| 45° | 3991 | 4042 | 4021 |
| 50° | 3828 | 3887 | 3856 |
| 55° | 3634 | 3692 | 3639 |
| 60° | 3369 | 3415 | 3358 |
| 65° | 3006 | 3037 | 3002 |
| 70° | 2529 | 2529 | 2511 |
| 75° | 1982 | 1982 | 1959 |
| 80° | 1452 | 1435 | 1426 |
| 85° | 948 | 948 | 963 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 152.8 | 3.6 |
| 10°-20° | 441.5 | 10.3 |
| 20°-30° | 673.4 | 15.6 |
| 30°-40° | 807.1 | 18.7 |
| 40°-50° | 815.1 | 18.9 |
| 50°-60° | 697.4 | 16.2 |
| 60°-70° | 470.3 | 10.9 |
| 70°-80° | 207.5 | 4.8 |
| 80°-90° | 39.8 | 0.9 |
| 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° | 1267.8 | 29.4 |
| 0°-40° | 2074.9 | 48.2 |
| 0°-60° | 3587.4 | 83.3 |
| 0°-90° | 4305.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4305.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1611 | 1611 | 1611 | 1611 | 1611 | |
| 5° | 1607 | 1605 | 1606 | 1605 | 1606 | 153 |
| 15° | 1565 | 1565 | 1564 | 1563 | 1564 | 442 |
| 25° | 1460 | 1462 | 1462 | 1462 | 1463 | 673 |
| 35° | 1286 | 1294 | 1293 | 1292 | 1292 | 804 |
| 45° | 1049 | 1057 | 1062 | 1060 | 1057 | 808 |
| 55° | 775 | 782 | 787 | 786 | 776 | 690 |
| 65° | 472 | 476 | 477 | 476 | 472 | 466 |
| 75° | 191 | 191 | 191 | 191 | 188 | 207 |
| 85° | 31 | 31 | 31 | 31 | 31 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506364

CATALOG NUMBER: 22PD-55-PR1-L935

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1611.1 | 1611.1 | 1611.1 | 1611.1 | 1611.1 |
| 2.5° | 1612.2 | 1610.0 | 1609.5 | 1608.9 | 1611.1 |
| 5° | 1607.3 | 1605.2 | 1606.2 | 1605.2 | 1606.2 |
| 7.5° | 1601.4 | 1599.2 | 1599.8 | 1598.7 | 1599.8 |
| 10° | 1593.9 | 1591.7 | 1591.7 | 1590.6 | 1591.7 |
| 12.5° | 1582.0 | 1580.4 | 1579.9 | 1578.8 | 1580.4 |
| 15° | 1565.3 | 1564.8 | 1563.7 | 1563.2 | 1564.2 |
| 17.5° | 1544.9 | 1543.8 | 1544.9 | 1543.3 | 1544.3 |
| 20° | 1520.6 | 1521.2 | 1520.1 | 1520.6 | 1521.2 |
| 22.5° | 1493.2 | 1493.2 | 1493.7 | 1493.7 | 1494.8 |
| 25° | 1460.4 | 1462.0 | 1462.0 | 1462.0 | 1463.0 |
| 27.5° | 1423.8 | 1425.9 | 1427.5 | 1426.4 | 1427.5 |
| 30° | 1382.8 | 1386.6 | 1387.2 | 1386.6 | 1387.7 |
| 32.5° | 1338.7 | 1341.4 | 1343.0 | 1341.9 | 1340.9 |
| 35° | 1286.0 | 1293.5 | 1293.0 | 1291.9 | 1292.4 |
| 37.5° | 1230.5 | 1238.0 | 1240.7 | 1238.6 | 1239.1 |
| 40° | 1174.5 | 1181.0 | 1182.6 | 1183.1 | 1181.0 |
| 42.5° | 1112.6 | 1120.2 | 1126.1 | 1123.4 | 1120.2 |
| 45° | 1048.6 | 1056.6 | 1062.0 | 1060.4 | 1056.6 |
| 47.5° | 982.4 | 989.9 | 997.4 | 994.7 | 991.0 |
| 50° | 914.5 | 922.1 | 928.5 | 927.5 | 921.0 |
| 52.5° | 845.1 | 853.7 | 859.6 | 857.5 | 848.9 |
| 55° | 774.6 | 781.6 | 787.0 | 785.9 | 775.7 |
| 57.5° | 698.2 | 707.3 | 710.0 | 708.4 | 700.8 |
| 60° | 626.0 | 631.9 | 634.6 | 632.5 | 623.9 |
| 62.5° | 549.0 | 553.9 | 556.0 | 555.5 | 549.6 |
| 65° | 472.1 | 475.8 | 476.9 | 475.8 | 471.5 |
| 67.5° | 392.9 | 398.3 | 398.9 | 398.9 | 394.6 |
| 70° | 321.4 | 323.0 | 321.4 | 325.7 | 319.2 |
| 72.5° | 251.9 | 253.0 | 251.9 | 251.9 | 249.2 |
| 75° | 190.6 | 191.1 | 190.6 | 191.1 | 188.4 |
| 77.5° | 137.8 | 138.9 | 136.7 | 138.3 | 135.6 |
| 80° | 93.7 | 93.7 | 92.6 | 93.1 | 92.0 |
| 82.5° | 58.1 | 59.2 | 57.6 | 57.6 | 57.1 |
| 85° | 30.7 | 30.7 | 30.7 | 31.2 | 31.2 |
| 87.5° | 10.8 | 10.8 | 11.3 | 11.3 | 10.8 |
| 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)