

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: P506373

Luminaire Tested: **22PD-55-PW1-L935**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-55-PW1-L935
Description: 5500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

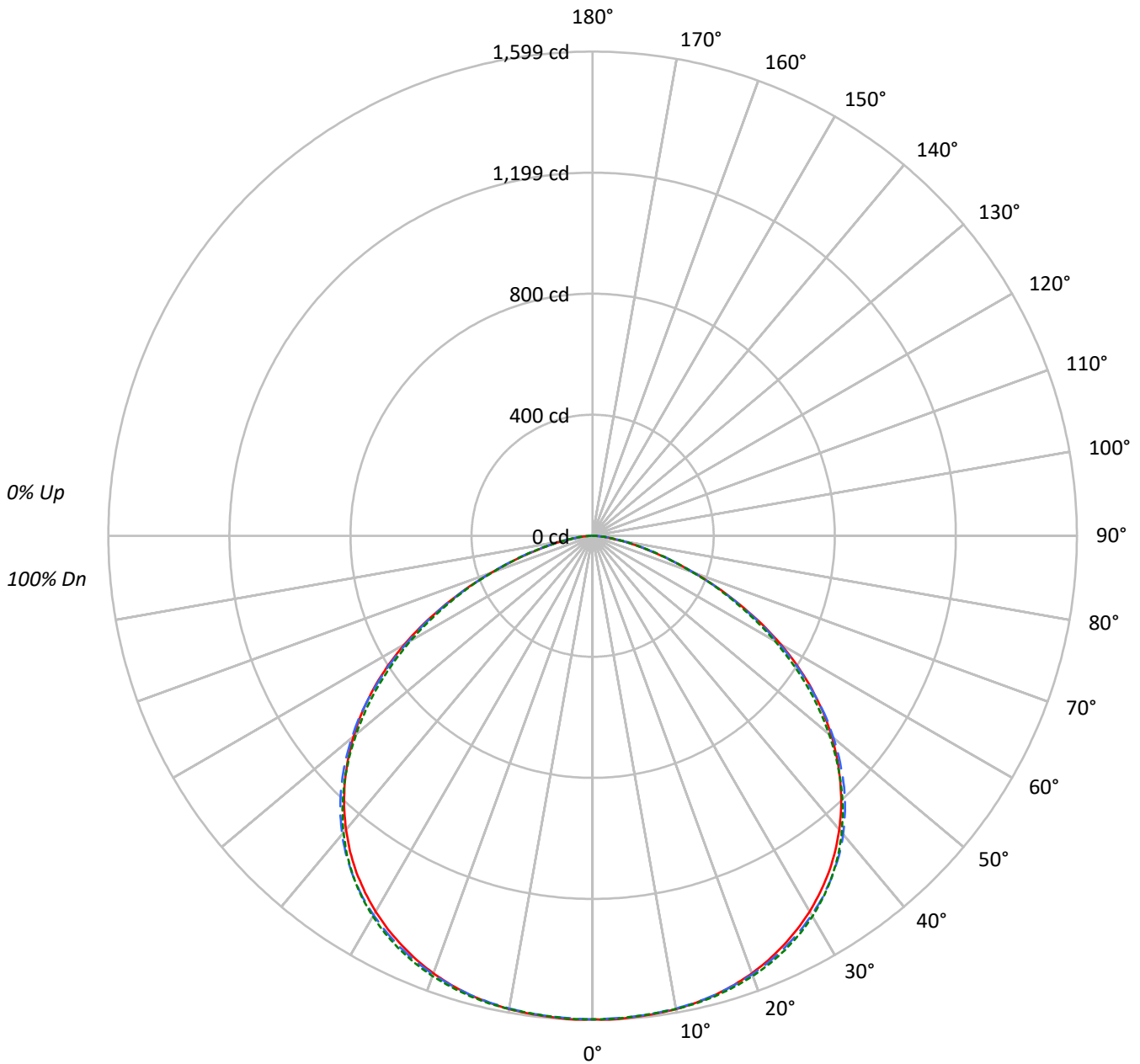
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4616.8 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44
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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CATALOG NUMBER: 22PD-55-PW1-L935

Luminous Intensity Polar Plot





TEST NUMBER: P506373

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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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 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 | 63 | 58 | 54 | 52 | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 48 | 61 | 54 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 | | | |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 | | | |
| 7 | 66 | 52 | 44 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 35 | | | |
| 8 | 61 | 48 | 39 | 33 | 59 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | |
| 9 | 57 | 44 | 35 | 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° | 4298 | 4298 | 4298 |
| 5° | 4310 | 4304 | 4305 |
| 10° | 4338 | 4332 | 4336 |
| 15° | 4372 | 4370 | 4383 |
| 20° | 4404 | 4414 | 4432 |
| 25° | 4430 | 4456 | 4476 |
| 30° | 4452 | 4495 | 4511 |
| 35° | 4463 | 4521 | 4523 |
| 40° | 4450 | 4522 | 4496 |
| 45° | 4405 | 4469 | 4414 |
| 50° | 4316 | 4347 | 4268 |
| 55° | 4148 | 4130 | 4052 |
| 60° | 3862 | 3818 | 3739 |
| 65° | 3406 | 3373 | 3308 |
| 70° | 2789 | 2803 | 2744 |
| 75° | 2113 | 2184 | 2167 |
| 80° | 1531 | 1592 | 1565 |
| 85° | 1003 | 1041 | 1112 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 151.9 | 3.3 |
| 10°-20° | 443.6 | 9.6 |
| 20°-30° | 691.6 | 15.0 |
| 30°-40° | 857.2 | 18.6 |
| 40°-50° | 896.9 | 19.4 |
| 50°-60° | 781.6 | 16.9 |
| 60°-70° | 523.6 | 11.3 |
| 70°-80° | 226.9 | 4.9 |
| 80°-90° | 43.7 | 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° | 1287.0 | 27.9 |
| 0°-40° | 2144.2 | 46.4 |
| 0°-60° | 3822.6 | 82.8 |
| 0°-90° | 4616.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4616.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1597 | 1597 | 1597 | 1597 | 1597 | |
| 5° | 1596 | 1594 | 1593 | 1593 | 1594 | 152 |
| 15° | 1569 | 1567 | 1569 | 1570 | 1573 | 443 |
| 25° | 1492 | 1493 | 1501 | 1505 | 1508 | 688 |
| 35° | 1359 | 1364 | 1376 | 1378 | 1377 | 849 |
| 45° | 1158 | 1164 | 1174 | 1164 | 1160 | 891 |
| 55° | 884 | 884 | 880 | 870 | 864 | 787 |
| 65° | 535 | 532 | 530 | 525 | 520 | 529 |
| 75° | 203 | 207 | 210 | 208 | 208 | 224 |
| 85° | 32 | 35 | 34 | 34 | 36 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506373

CATALOG NUMBER: 22PD-55-PW1-L935

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1597.2 | 1597.2 | 1597.2 | 1597.2 | 1597.2 |
| 2.5° | 1598.9 | 1596.0 | 1595.5 | 1595.5 | 1597.2 |
| 5° | 1595.5 | 1593.7 | 1593.2 | 1592.6 | 1593.7 |
| 7.5° | 1592.0 | 1589.7 | 1590.3 | 1589.2 | 1590.3 |
| 10° | 1587.5 | 1585.2 | 1585.2 | 1585.2 | 1586.9 |
| 12.5° | 1579.5 | 1577.8 | 1578.3 | 1579.5 | 1581.8 |
| 15° | 1569.2 | 1566.9 | 1568.6 | 1570.3 | 1573.2 |
| 17.5° | 1554.9 | 1553.2 | 1556.1 | 1558.9 | 1561.2 |
| 20° | 1537.8 | 1536.1 | 1541.2 | 1545.2 | 1547.5 |
| 22.5° | 1516.7 | 1516.1 | 1523.0 | 1527.5 | 1529.2 |
| 25° | 1492.1 | 1492.7 | 1500.7 | 1505.3 | 1507.5 |
| 27.5° | 1464.2 | 1465.3 | 1475.6 | 1479.6 | 1481.9 |
| 30° | 1432.8 | 1435.6 | 1446.5 | 1449.9 | 1451.6 |
| 32.5° | 1397.4 | 1401.4 | 1414.5 | 1416.8 | 1416.8 |
| 35° | 1358.6 | 1363.7 | 1376.3 | 1378.0 | 1376.8 |
| 37.5° | 1315.2 | 1320.9 | 1335.2 | 1332.9 | 1331.2 |
| 40° | 1266.7 | 1272.9 | 1287.2 | 1282.6 | 1279.8 |
| 42.5° | 1214.7 | 1221.0 | 1233.6 | 1226.7 | 1222.7 |
| 45° | 1157.6 | 1163.9 | 1174.2 | 1164.5 | 1159.9 |
| 47.5° | 1096.0 | 1103.4 | 1108.5 | 1097.7 | 1092.0 |
| 50° | 1030.9 | 1033.2 | 1038.3 | 1025.8 | 1019.5 |
| 52.5° | 960.1 | 960.1 | 964.1 | 950.4 | 943.0 |
| 55° | 884.2 | 883.6 | 880.2 | 870.5 | 863.7 |
| 57.5° | 803.7 | 800.3 | 798.0 | 787.7 | 779.7 |
| 60° | 717.5 | 712.4 | 709.5 | 701.0 | 694.7 |
| 62.5° | 627.3 | 624.5 | 621.1 | 614.2 | 607.4 |
| 65° | 534.9 | 532.0 | 529.7 | 524.6 | 519.5 |
| 67.5° | 443.0 | 441.2 | 441.2 | 437.8 | 437.3 |
| 70° | 354.5 | 355.6 | 356.2 | 356.2 | 348.8 |
| 72.5° | 274.6 | 275.1 | 278.0 | 275.7 | 275.1 |
| 75° | 203.2 | 206.6 | 210.1 | 208.4 | 208.4 |
| 77.5° | 146.1 | 151.3 | 151.3 | 150.1 | 148.4 |
| 80° | 98.8 | 101.0 | 102.7 | 102.2 | 101.0 |
| 82.5° | 62.8 | 64.5 | 62.8 | 63.9 | 64.5 |
| 85° | 32.5 | 34.8 | 33.7 | 34.2 | 36.0 |
| 87.5° | 10.8 | 12.0 | 12.6 | 12.0 | 12.0 |
| 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)