

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: P506340

Luminaire Tested: **22PD-50-PW1-L830**

Issue Date: 3/26/2021



**Test Information**

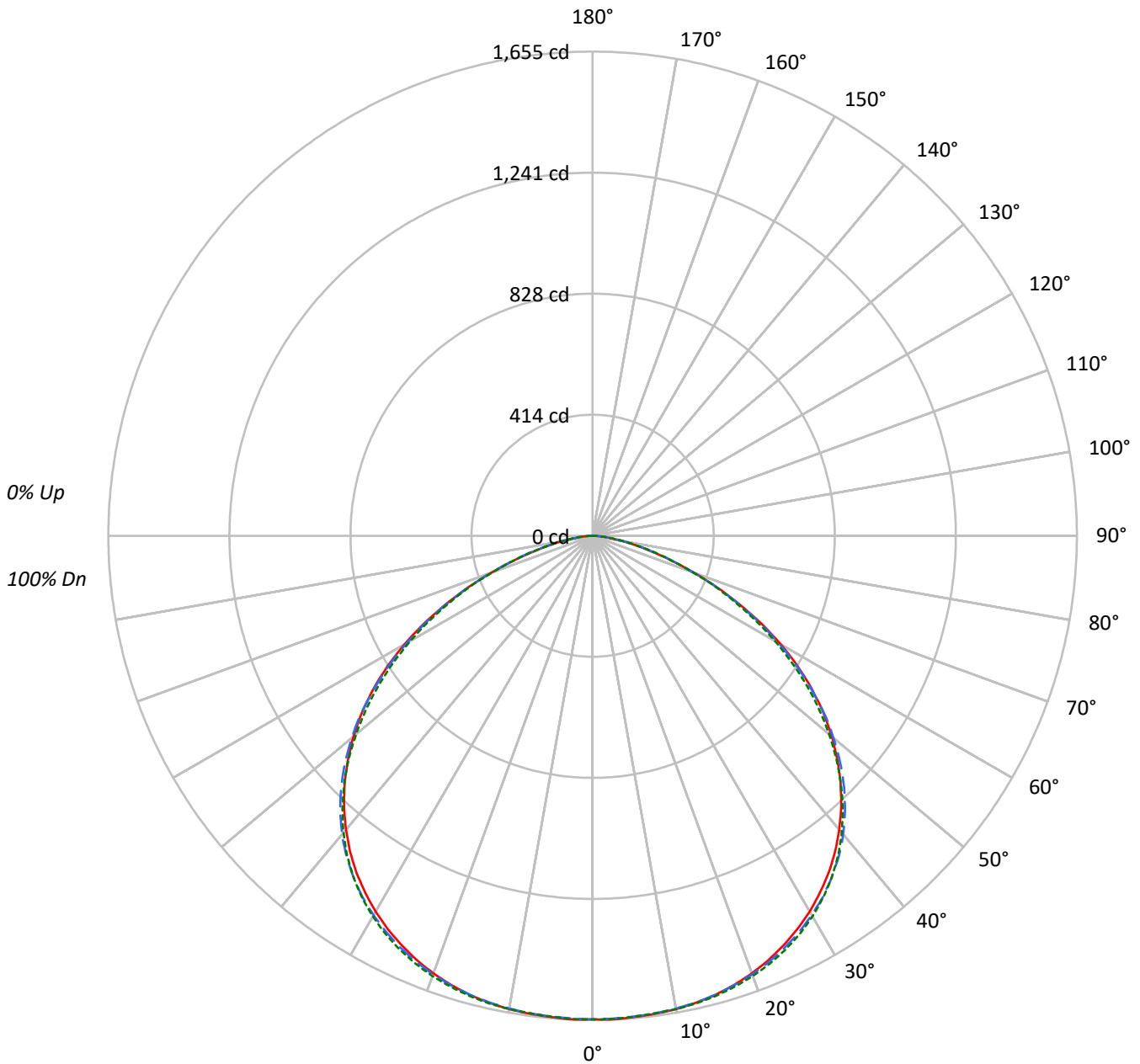
Test Method: LM-79-08  
Report Number: P506340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-50-PW1-L830  
Description: 5000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4778.6 lumens  
Efficiency: N/A  
Efficacy: 114.0 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): 41.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 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   | 83  | 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°  | 4448 | 4448 | 4448 |
| 5°  | 4461 | 4454 | 4456 |
| 10° | 4490 | 4483 | 4488 |
| 15° | 4525 | 4523 | 4536 |
| 20° | 4558 | 4568 | 4587 |
| 25° | 4586 | 4612 | 4633 |
| 30° | 4608 | 4652 | 4669 |
| 35° | 4619 | 4680 | 4682 |
| 40° | 4605 | 4680 | 4653 |
| 45° | 4560 | 4625 | 4569 |
| 50° | 4467 | 4499 | 4418 |
| 55° | 4294 | 4274 | 4194 |
| 60° | 3997 | 3953 | 3870 |
| 65° | 3525 | 3491 | 3424 |
| 70° | 2887 | 2901 | 2840 |
| 75° | 2187 | 2260 | 2243 |
| 80° | 1584 | 1647 | 1621 |
| 85° | 1041 | 1078 | 1149 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.2  | 3.3       |
| 10°-20°   | 459.1  | 9.6       |
| 20°-30°   | 715.8  | 15.0      |
| 30°-40°   | 887.2  | 18.6      |
| 40°-50°   | 928.3  | 19.4      |
| 50°-60°   | 809.0  | 16.9      |
| 60°-70°   | 541.9  | 11.3      |
| 70°-80°   | 234.9  | 4.9       |
| 80°-90°   | 45.2   | 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°    | 1332.1 | 27.9      |
| 0°-40°    | 2219.3 | 46.4      |
| 0°-60°    | 3956.6 | 82.8      |
| 0°-90°    | 4778.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4778.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1653 | 1653  | 1653 | 1653  | 1653 |      |
| 5°  | 1651 | 1650  | 1649 | 1648  | 1650 | 157  |
| 15° | 1624 | 1622  | 1624 | 1625  | 1628 | 459  |
| 25° | 1544 | 1545  | 1553 | 1558  | 1560 | 712  |
| 35° | 1406 | 1412  | 1424 | 1426  | 1425 | 879  |
| 45° | 1198 | 1205  | 1215 | 1205  | 1201 | 923  |
| 55° | 915  | 915   | 911  | 901   | 894  | 815  |
| 65° | 554  | 551   | 548  | 543   | 538  | 548  |
| 75° | 210  | 214   | 217  | 216   | 216  | 232  |
| 85° | 34   | 36    | 35   | 35    | 37   | 44   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1653.1 | 1653.1 | 1653.1 | 1653.1 | 1653.1 |
| 2.5°  | 1654.9 | 1652.0 | 1651.4 | 1651.4 | 1653.1 |
| 5°    | 1651.4 | 1649.6 | 1649.0 | 1648.4 | 1649.6 |
| 7.5°  | 1647.8 | 1645.5 | 1646.1 | 1644.9 | 1646.1 |
| 10°   | 1643.1 | 1640.7 | 1640.7 | 1640.7 | 1642.5 |
| 12.5° | 1634.8 | 1633.1 | 1633.6 | 1634.8 | 1637.2 |
| 15°   | 1624.2 | 1621.8 | 1623.6 | 1625.4 | 1628.3 |
| 17.5° | 1609.4 | 1607.6 | 1610.6 | 1613.6 | 1615.9 |
| 20°   | 1591.7 | 1589.9 | 1595.2 | 1599.4 | 1601.7 |
| 22.5° | 1569.8 | 1569.2 | 1576.3 | 1581.1 | 1582.8 |
| 25°   | 1544.4 | 1545.0 | 1553.3 | 1558.0 | 1560.4 |
| 27.5° | 1515.5 | 1516.7 | 1527.3 | 1531.4 | 1533.8 |
| 30°   | 1483.0 | 1485.9 | 1497.2 | 1500.7 | 1502.5 |
| 32.5° | 1446.3 | 1450.5 | 1464.1 | 1466.4 | 1466.4 |
| 35°   | 1406.2 | 1411.5 | 1424.5 | 1426.3 | 1425.1 |
| 37.5° | 1361.3 | 1367.2 | 1381.9 | 1379.6 | 1377.8 |
| 40°   | 1311.0 | 1317.5 | 1332.3 | 1327.6 | 1324.6 |
| 42.5° | 1257.3 | 1263.8 | 1276.8 | 1269.7 | 1265.6 |
| 45°   | 1198.2 | 1204.7 | 1215.3 | 1205.3 | 1200.6 |
| 47.5° | 1134.4 | 1142.1 | 1147.4 | 1136.2 | 1130.3 |
| 50°   | 1067.0 | 1069.4 | 1074.7 | 1061.7 | 1055.2 |
| 52.5° | 993.8  | 993.8  | 997.9  | 983.7  | 976.0  |
| 55°   | 915.2  | 914.6  | 911.1  | 901.0  | 893.9  |
| 57.5° | 831.9  | 828.3  | 826.0  | 815.3  | 807.1  |
| 60°   | 742.7  | 737.4  | 734.4  | 725.5  | 719.0  |
| 62.5° | 649.3  | 646.4  | 642.8  | 635.7  | 628.6  |
| 65°   | 553.6  | 550.7  | 548.3  | 543.0  | 537.7  |
| 67.5° | 458.5  | 456.7  | 456.7  | 453.2  | 452.6  |
| 70°   | 366.9  | 368.1  | 368.7  | 368.7  | 361.0  |
| 72.5° | 284.2  | 284.8  | 287.7  | 285.4  | 284.8  |
| 75°   | 210.3  | 213.9  | 217.4  | 215.7  | 215.7  |
| 77.5° | 151.3  | 156.6  | 156.6  | 155.4  | 153.6  |
| 80°   | 102.2  | 104.6  | 106.3  | 105.8  | 104.6  |
| 82.5° | 65.0   | 66.8   | 65.0   | 66.2   | 66.8   |
| 85°   | 33.7   | 36.0   | 34.9   | 35.4   | 37.2   |
| 87.5° | 11.2   | 12.4   | 13.0   | 12.4   | 12.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)