

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: P506021

Luminaire Tested: **14PD-55-PW1-L930**

Issue Date: 3/26/2021



**Test Information**

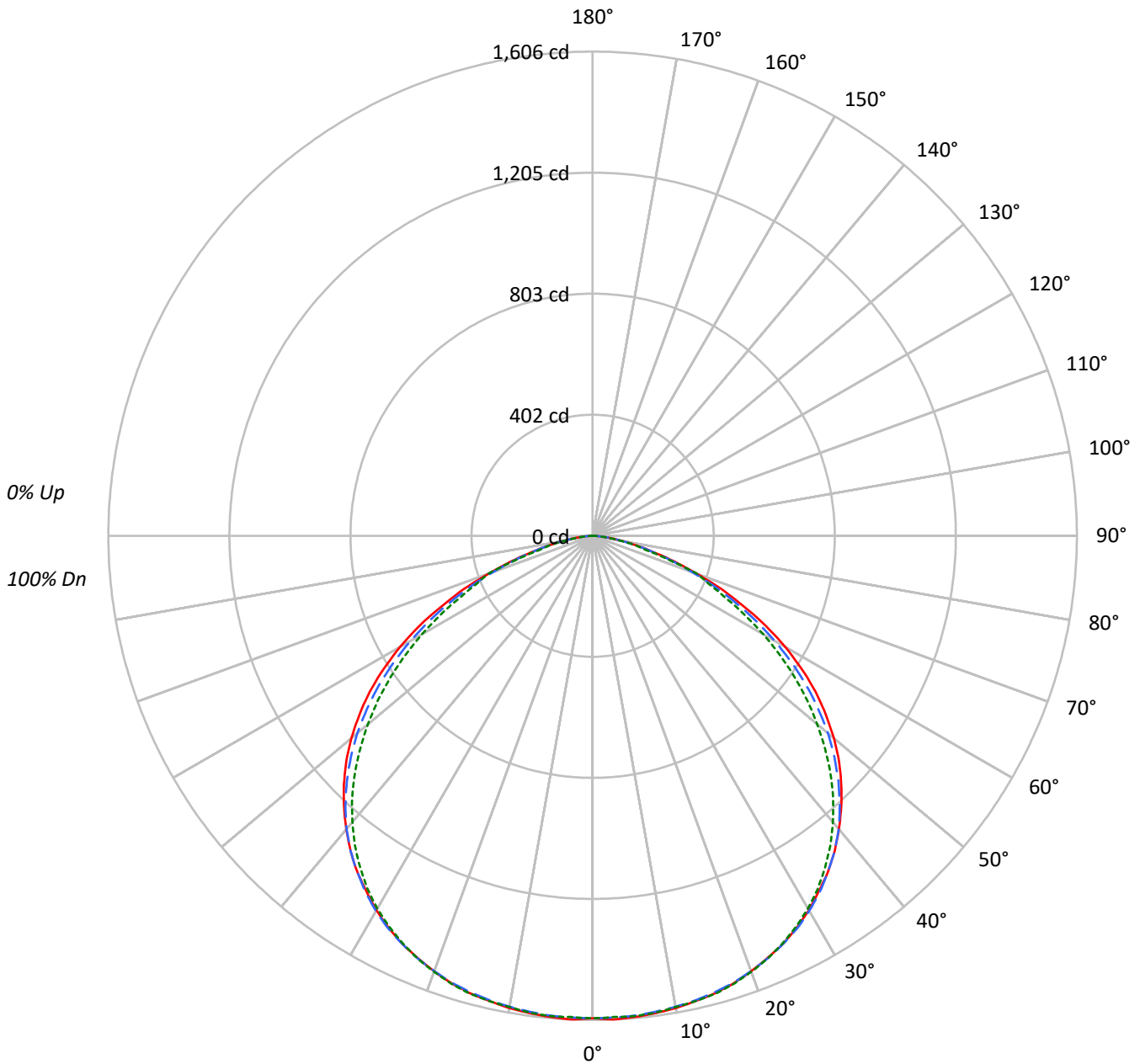
Test Method: LM-79-08  
Report Number: P506021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-55-PW1-L930  
Description: 5500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4558.6 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 54.1  
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   | 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  | 79  | 72  | 66  | 77  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 42  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 37  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 48  | 39  | 34  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 54  | 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°  | 4307 | 4307 | 4307 |
| 5°  | 4328 | 4316 | 4321 |
| 10° | 4347 | 4334 | 4337 |
| 15° | 4376 | 4366 | 4381 |
| 20° | 4402 | 4400 | 4407 |
| 25° | 4436 | 4436 | 4427 |
| 30° | 4456 | 4465 | 4437 |
| 35° | 4471 | 4471 | 4414 |
| 40° | 4463 | 4460 | 4354 |
| 45° | 4438 | 4387 | 4246 |
| 50° | 4371 | 4265 | 4072 |
| 55° | 4236 | 4058 | 3838 |
| 60° | 3969 | 3750 | 3516 |
| 65° | 3514 | 3313 | 3094 |
| 70° | 2869 | 2741 | 2891 |
| 75° | 2164 | 2126 | 1910 |
| 80° | 1556 | 1458 | 1458 |
| 85° | 979  | 923  | 809  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 152.2  | 3.3       |
| 10°-20°   | 443.1  | 9.7       |
| 20°-30°   | 687.8  | 15.1      |
| 30°-40°   | 847.2  | 18.6      |
| 40°-50°   | 882.0  | 19.3      |
| 50°-60°   | 767.0  | 16.8      |
| 60°-70°   | 515.3  | 11.3      |
| 70°-80°   | 223.0  | 4.9       |
| 80°-90°   | 41.0   | 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°    | 1283.1 | 28.1      |
| 0°-40°    | 2130.3 | 46.7      |
| 0°-60°    | 3779.3 | 82.9      |
| 0°-90°    | 4558.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4558.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1601 | 1601  | 1601 | 1601  | 1601 |      |
| 5°  | 1602 | 1592  | 1598 | 1602  | 1600 | 153  |
| 15° | 1571 | 1560  | 1567 | 1573  | 1573 | 444  |
| 25° | 1494 | 1487  | 1494 | 1494  | 1491 | 688  |
| 35° | 1361 | 1357  | 1361 | 1349  | 1344 | 851  |
| 45° | 1166 | 1163  | 1153 | 1126  | 1116 | 898  |
| 55° | 903  | 887   | 865  | 831   | 818  | 803  |
| 65° | 552  | 542   | 520  | 496   | 486  | 547  |
| 75° | 208  | 210   | 204  | 209   | 184  | 229  |
| 85° | 32   | 33    | 30   | 26    | 26   | 42   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1600.6 | 1600.6 | 1600.6 | 1600.6 | 1600.6 |
| 2.5°  | 1606.1 | 1596.1 | 1599.7 | 1605.2 | 1597.9 |
| 5°    | 1602.4 | 1592.5 | 1597.9 | 1601.5 | 1599.7 |
| 7.5°  | 1597.0 | 1589.8 | 1592.5 | 1596.1 | 1595.2 |
| 10°   | 1590.7 | 1583.4 | 1586.2 | 1589.8 | 1587.1 |
| 12.5° | 1580.7 | 1572.6 | 1578.0 | 1581.6 | 1580.7 |
| 15°   | 1570.8 | 1559.9 | 1567.1 | 1572.6 | 1572.6 |
| 17.5° | 1556.3 | 1547.2 | 1554.5 | 1559.0 | 1558.1 |
| 20°   | 1537.3 | 1531.0 | 1536.4 | 1540.0 | 1539.1 |
| 22.5° | 1515.6 | 1511.1 | 1517.4 | 1517.4 | 1517.4 |
| 25°   | 1493.9 | 1486.6 | 1493.9 | 1493.9 | 1491.1 |
| 27.5° | 1465.8 | 1459.5 | 1468.5 | 1465.8 | 1461.3 |
| 30°   | 1434.1 | 1430.5 | 1436.9 | 1432.3 | 1427.8 |
| 32.5° | 1397.0 | 1395.2 | 1401.6 | 1392.5 | 1388.9 |
| 35°   | 1360.9 | 1357.2 | 1360.9 | 1349.1 | 1343.7 |
| 37.5° | 1318.3 | 1314.7 | 1318.3 | 1302.9 | 1294.8 |
| 40°   | 1270.4 | 1267.7 | 1269.5 | 1249.6 | 1239.6 |
| 42.5° | 1220.6 | 1217.9 | 1213.4 | 1188.9 | 1180.8 |
| 45°   | 1166.3 | 1162.7 | 1152.7 | 1126.5 | 1115.6 |
| 47.5° | 1108.4 | 1102.1 | 1087.6 | 1059.5 | 1045.1 |
| 50°   | 1044.2 | 1035.1 | 1018.8 | 988.1  | 972.7  |
| 52.5° | 974.5  | 963.6  | 942.8  | 912.1  | 897.6  |
| 55°   | 903.0  | 886.7  | 865.0  | 830.6  | 818.0  |
| 57.5° | 821.6  | 804.4  | 781.8  | 750.1  | 735.6  |
| 60°   | 737.4  | 720.2  | 696.7  | 667.8  | 653.3  |
| 62.5° | 647.9  | 632.5  | 608.9  | 581.8  | 569.1  |
| 65°   | 551.9  | 542.0  | 520.3  | 495.8  | 485.9  |
| 67.5° | 461.5  | 451.5  | 433.4  | 412.6  | 416.2  |
| 70°   | 364.6  | 363.7  | 348.4  | 333.9  | 367.4  |
| 72.5° | 284.1  | 282.3  | 274.2  | 266.9  | 265.1  |
| 75°   | 208.1  | 209.9  | 204.5  | 209.0  | 183.7  |
| 77.5° | 146.6  | 148.4  | 147.5  | 134.8  | 141.2  |
| 80°   | 100.4  | 100.4  | 94.1   | 89.6   | 94.1   |
| 82.5° | 60.6   | 72.4   | 65.1   | 53.4   | 51.6   |
| 85°   | 31.7   | 32.6   | 29.9   | 26.2   | 26.2   |
| 87.5° | 11.8   | 13.6   | 11.8   | 10.9   | 10.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)