

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: P506320

Luminaire Tested: **22PD-45-PW1-L940**

Issue Date: 3/26/2021



**Test Information**

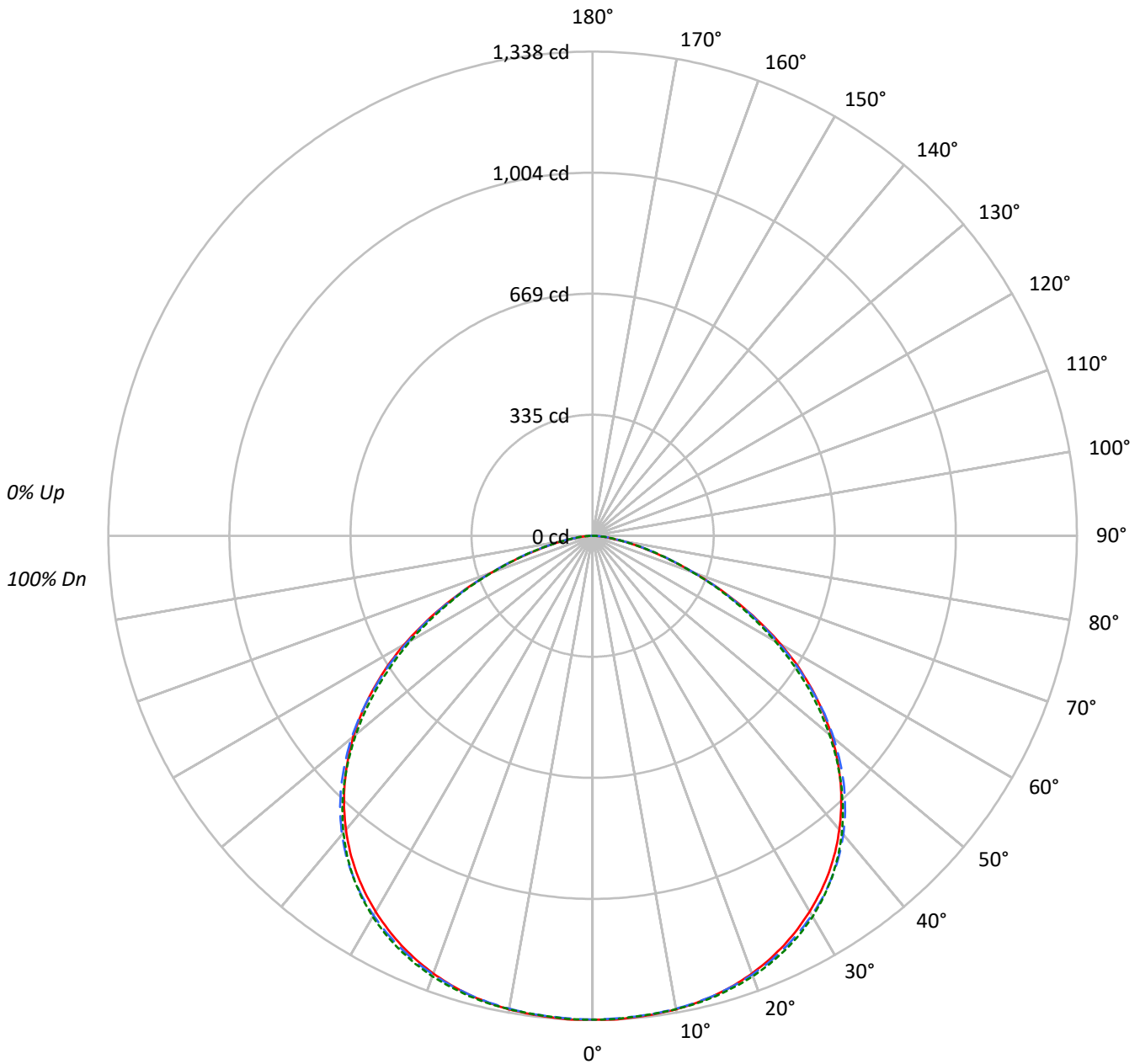
Test Method: LM-79-08  
Report Number: P506320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-45-PW1-L940  
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3865.1 lumens  
Efficiency: N/A  
Efficacy: 102.3 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): 37.8  
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

TEST NUMBER: P506320  
CATALOG NUMBER: 22PD-45-PW1-L940

### Luminous Intensity Polar Plot





TEST NUMBER: P506320

CATALOG NUMBER: 22PD-45-PW1-L940

**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°  | 3598 | 3598 | 3598 |
| 5°  | 3608 | 3603 | 3604 |
| 10° | 3631 | 3626 | 3630 |
| 15° | 3660 | 3658 | 3669 |
| 20° | 3687 | 3695 | 3710 |
| 25° | 3709 | 3730 | 3747 |
| 30° | 3727 | 3763 | 3776 |
| 35° | 3736 | 3785 | 3787 |
| 40° | 3725 | 3785 | 3764 |
| 45° | 3688 | 3741 | 3696 |
| 50° | 3613 | 3639 | 3573 |
| 55° | 3473 | 3457 | 3392 |
| 60° | 3233 | 3197 | 3130 |
| 65° | 2851 | 2824 | 2769 |
| 70° | 2335 | 2346 | 2297 |
| 75° | 1769 | 1829 | 1813 |
| 80° | 1282 | 1333 | 1311 |
| 85° | 840  | 871  | 929  |



TEST NUMBER: P506320

CATALOG NUMBER: 22PD-45-PW1-L940

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.1  | 3.3       |
| 10°-20°   | 371.4  | 9.6       |
| 20°-30°   | 579.0  | 15.0      |
| 30°-40°   | 717.6  | 18.6      |
| 40°-50°   | 750.9  | 19.4      |
| 50°-60°   | 654.3  | 16.9      |
| 60°-70°   | 438.3  | 11.3      |
| 70°-80°   | 190.0  | 4.9       |
| 80°-90°   | 36.6   | 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°    | 1077.5 | 27.9      |
| 0°-40°    | 1795.1 | 46.4      |
| 0°-60°    | 3200.3 | 82.8      |
| 0°-90°    | 3865.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3865.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1337 | 1337  | 1337 | 1337  | 1337 |      |
| 5°  | 1336 | 1334  | 1334 | 1333  | 1334 | 127  |
| 15° | 1314 | 1312  | 1313 | 1315  | 1317 | 371  |
| 25° | 1249 | 1250  | 1256 | 1260  | 1262 | 576  |
| 35° | 1137 | 1142  | 1152 | 1154  | 1153 | 711  |
| 45° | 969  | 974   | 983  | 975   | 971  | 746  |
| 55° | 740  | 740   | 737  | 729   | 723  | 659  |
| 65° | 448  | 445   | 444  | 439   | 435  | 443  |
| 75° | 170  | 173   | 176  | 174   | 174  | 187  |
| 85° | 27   | 29    | 28   | 29    | 30   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P506320

CATALOG NUMBER: 22PD-45-PW1-L940

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1337.1 | 1337.1 | 1337.1 | 1337.1 | 1337.1 |
| 2.5°  | 1338.5 | 1336.2 | 1335.7 | 1335.7 | 1337.1 |
| 5°    | 1335.7 | 1334.2 | 1333.8 | 1333.3 | 1334.2 |
| 7.5°  | 1332.8 | 1330.9 | 1331.4 | 1330.4 | 1331.4 |
| 10°   | 1329.0 | 1327.1 | 1327.1 | 1327.1 | 1328.5 |
| 12.5° | 1322.3 | 1320.9 | 1321.3 | 1322.3 | 1324.2 |
| 15°   | 1313.7 | 1311.8 | 1313.2 | 1314.7 | 1317.0 |
| 17.5° | 1301.8 | 1300.3 | 1302.7 | 1305.1 | 1307.0 |
| 20°   | 1287.4 | 1286.0 | 1290.3 | 1293.6 | 1295.5 |
| 22.5° | 1269.7 | 1269.3 | 1275.0 | 1278.8 | 1280.2 |
| 25°   | 1249.2 | 1249.7 | 1256.4 | 1260.2 | 1262.1 |
| 27.5° | 1225.8 | 1226.7 | 1235.3 | 1238.7 | 1240.6 |
| 30°   | 1199.5 | 1201.9 | 1211.0 | 1213.8 | 1215.3 |
| 32.5° | 1169.9 | 1173.2 | 1184.2 | 1186.1 | 1186.1 |
| 35°   | 1137.4 | 1141.7 | 1152.2 | 1153.6 | 1152.7 |
| 37.5° | 1101.0 | 1105.8 | 1117.8 | 1115.9 | 1114.4 |
| 40°   | 1060.4 | 1065.7 | 1077.6 | 1073.8 | 1071.4 |
| 42.5° | 1016.9 | 1022.2 | 1032.7 | 1027.0 | 1023.6 |
| 45°   | 969.1  | 974.4  | 983.0  | 974.9  | 971.1  |
| 47.5° | 917.5  | 923.7  | 928.0  | 919.0  | 914.2  |
| 50°   | 863.1  | 865.0  | 869.3  | 858.8  | 853.5  |
| 52.5° | 803.8  | 803.8  | 807.1  | 795.7  | 789.5  |
| 55°   | 740.2  | 739.8  | 736.9  | 728.8  | 723.0  |
| 57.5° | 672.9  | 670.0  | 668.1  | 659.5  | 652.8  |
| 60°   | 600.7  | 596.4  | 594.0  | 586.8  | 581.6  |
| 62.5° | 525.2  | 522.8  | 519.9  | 514.2  | 508.5  |
| 65°   | 447.8  | 445.4  | 443.5  | 439.2  | 434.9  |
| 67.5° | 370.8  | 369.4  | 369.4  | 366.5  | 366.1  |
| 70°   | 296.8  | 297.7  | 298.2  | 298.2  | 292.0  |
| 72.5° | 229.9  | 230.3  | 232.7  | 230.8  | 230.3  |
| 75°   | 170.1  | 173.0  | 175.9  | 174.4  | 174.4  |
| 77.5° | 122.3  | 126.6  | 126.6  | 125.7  | 124.2  |
| 80°   | 82.7   | 84.6   | 86.0   | 85.5   | 84.6   |
| 82.5° | 52.6   | 54.0   | 52.6   | 53.5   | 54.0   |
| 85°   | 27.2   | 29.2   | 28.2   | 28.7   | 30.1   |
| 87.5° | 9.1    | 10.0   | 10.5   | 10.0   | 10.0   |
| 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)