

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: P505962

Luminaire Tested: **14PD-45-PW1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505962
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-45-PW1-L830
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

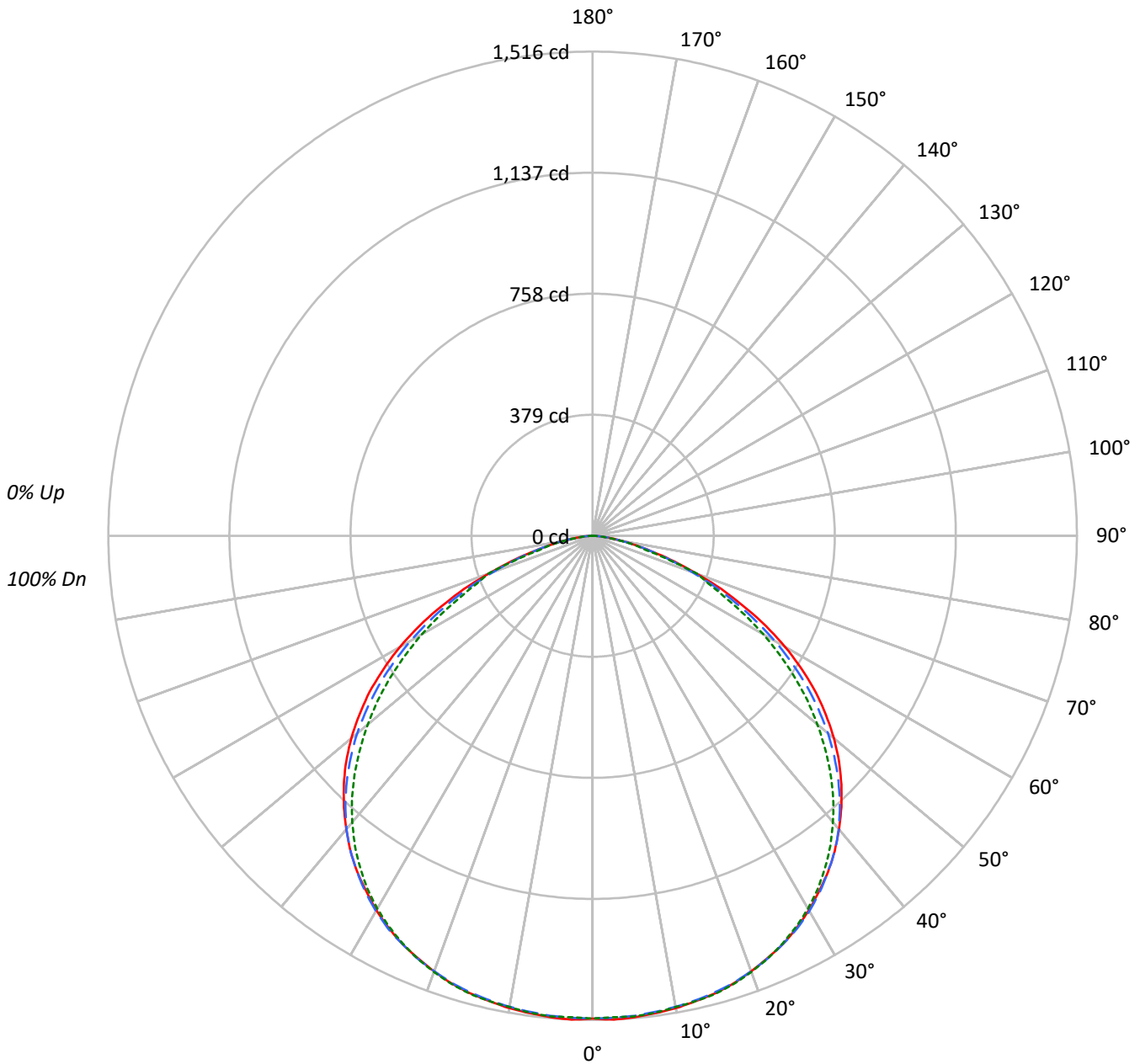
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4304.3 lumens
Efficiency: N/A
Efficacy: 100.3 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): 42.9
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

TEST NUMBER: P505962
CATALOG NUMBER: 14PD-45-PW1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P505962

CATALOG NUMBER: 14PD-45-PW1-L830

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° | 4067 | 4067 | 4067 |
| 5° | 4087 | 4076 | 4080 |
| 10° | 4104 | 4092 | 4095 |
| 15° | 4132 | 4122 | 4137 |
| 20° | 4157 | 4154 | 4162 |
| 25° | 4188 | 4188 | 4181 |
| 30° | 4208 | 4216 | 4189 |
| 35° | 4221 | 4221 | 4168 |
| 40° | 4214 | 4211 | 4112 |
| 45° | 4191 | 4142 | 4009 |
| 50° | 4127 | 4027 | 3845 |
| 55° | 4000 | 3832 | 3623 |
| 60° | 3747 | 3541 | 3320 |
| 65° | 3319 | 3128 | 2921 |
| 70° | 2709 | 2588 | 2729 |
| 75° | 2043 | 2008 | 1803 |
| 80° | 1469 | 1378 | 1378 |
| 85° | 923 | 871 | 766 |



TEST NUMBER: P505962

CATALOG NUMBER: 14PD-45-PW1-L830

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.7 | 3.3 |
| 10°-20° | 418.4 | 9.7 |
| 20°-30° | 649.5 | 15.1 |
| 30°-40° | 799.9 | 18.6 |
| 40°-50° | 832.8 | 19.3 |
| 50°-60° | 724.2 | 16.8 |
| 60°-70° | 486.6 | 11.3 |
| 70°-80° | 210.6 | 4.9 |
| 80°-90° | 38.7 | 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° | 1211.5 | 28.1 |
| 0°-40° | 2011.5 | 46.7 |
| 0°-60° | 3568.5 | 82.9 |
| 0°-90° | 4304.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4304.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1511 | 1511 | 1511 | 1511 | 1511 | |
| 5° | 1513 | 1504 | 1509 | 1512 | 1510 | 144 |
| 15° | 1483 | 1473 | 1480 | 1485 | 1485 | 419 |
| 25° | 1410 | 1404 | 1410 | 1410 | 1408 | 650 |
| 35° | 1285 | 1282 | 1285 | 1274 | 1269 | 803 |
| 45° | 1101 | 1098 | 1088 | 1064 | 1053 | 848 |
| 55° | 853 | 837 | 817 | 784 | 772 | 758 |
| 65° | 521 | 512 | 491 | 468 | 459 | 516 |
| 75° | 196 | 198 | 193 | 197 | 173 | 217 |
| 85° | 30 | 31 | 28 | 25 | 25 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P505962

CATALOG NUMBER: 14PD-45-PW1-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1511.4 | 1511.4 | 1511.4 | 1511.4 | 1511.4 |
| 2.5° | 1516.5 | 1507.1 | 1510.5 | 1515.6 | 1508.8 |
| 5° | 1513.1 | 1503.7 | 1508.8 | 1512.2 | 1510.5 |
| 7.5° | 1507.9 | 1501.1 | 1503.7 | 1507.1 | 1506.2 |
| 10° | 1502.0 | 1495.1 | 1497.7 | 1501.1 | 1498.5 |
| 12.5° | 1492.6 | 1484.9 | 1490.0 | 1493.4 | 1492.6 |
| 15° | 1483.2 | 1472.9 | 1479.7 | 1484.9 | 1484.9 |
| 17.5° | 1469.5 | 1460.9 | 1467.8 | 1472.1 | 1471.2 |
| 20° | 1451.5 | 1445.6 | 1450.7 | 1454.1 | 1453.3 |
| 22.5° | 1431.0 | 1426.8 | 1432.8 | 1432.8 | 1432.8 |
| 25° | 1410.5 | 1403.7 | 1410.5 | 1410.5 | 1408.0 |
| 27.5° | 1384.1 | 1378.1 | 1386.6 | 1384.1 | 1379.8 |
| 30° | 1354.2 | 1350.7 | 1356.7 | 1352.4 | 1348.2 |
| 32.5° | 1319.1 | 1317.4 | 1323.4 | 1314.8 | 1311.4 |
| 35° | 1284.9 | 1281.5 | 1284.9 | 1273.8 | 1268.7 |
| 37.5° | 1244.8 | 1241.4 | 1244.8 | 1230.3 | 1222.6 |
| 40° | 1199.5 | 1196.9 | 1198.7 | 1179.9 | 1170.5 |
| 42.5° | 1152.5 | 1150.0 | 1145.7 | 1122.6 | 1114.9 |
| 45° | 1101.3 | 1097.8 | 1088.4 | 1063.7 | 1053.4 |
| 47.5° | 1046.6 | 1040.6 | 1026.9 | 1000.4 | 986.8 |
| 50° | 985.9 | 977.4 | 962.0 | 933.0 | 918.4 |
| 52.5° | 920.1 | 909.9 | 890.2 | 861.2 | 847.5 |
| 55° | 852.6 | 837.3 | 816.8 | 784.3 | 772.3 |
| 57.5° | 775.8 | 759.5 | 738.2 | 708.3 | 694.6 |
| 60° | 696.3 | 680.1 | 657.9 | 630.5 | 616.8 |
| 62.5° | 611.7 | 597.2 | 575.0 | 549.3 | 537.4 |
| 65° | 521.2 | 511.8 | 491.3 | 468.2 | 458.8 |
| 67.5° | 435.7 | 426.3 | 409.2 | 389.6 | 393.0 |
| 70° | 344.3 | 343.5 | 328.9 | 315.3 | 346.9 |
| 72.5° | 268.3 | 266.6 | 258.9 | 252.0 | 250.3 |
| 75° | 196.5 | 198.2 | 193.1 | 197.4 | 173.4 |
| 77.5° | 138.4 | 140.1 | 139.3 | 127.3 | 133.3 |
| 80° | 94.8 | 94.8 | 88.9 | 84.6 | 88.9 |
| 82.5° | 57.2 | 68.3 | 61.5 | 50.4 | 48.7 |
| 85° | 29.9 | 30.8 | 28.2 | 24.8 | 24.8 |
| 87.5° | 11.1 | 12.8 | 11.1 | 10.3 | 9.4 |
| 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)