

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: P506158

Luminaire Tested: **14PD-80-PW1-L940**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506158
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-80-PW1-L940
Description: 8000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

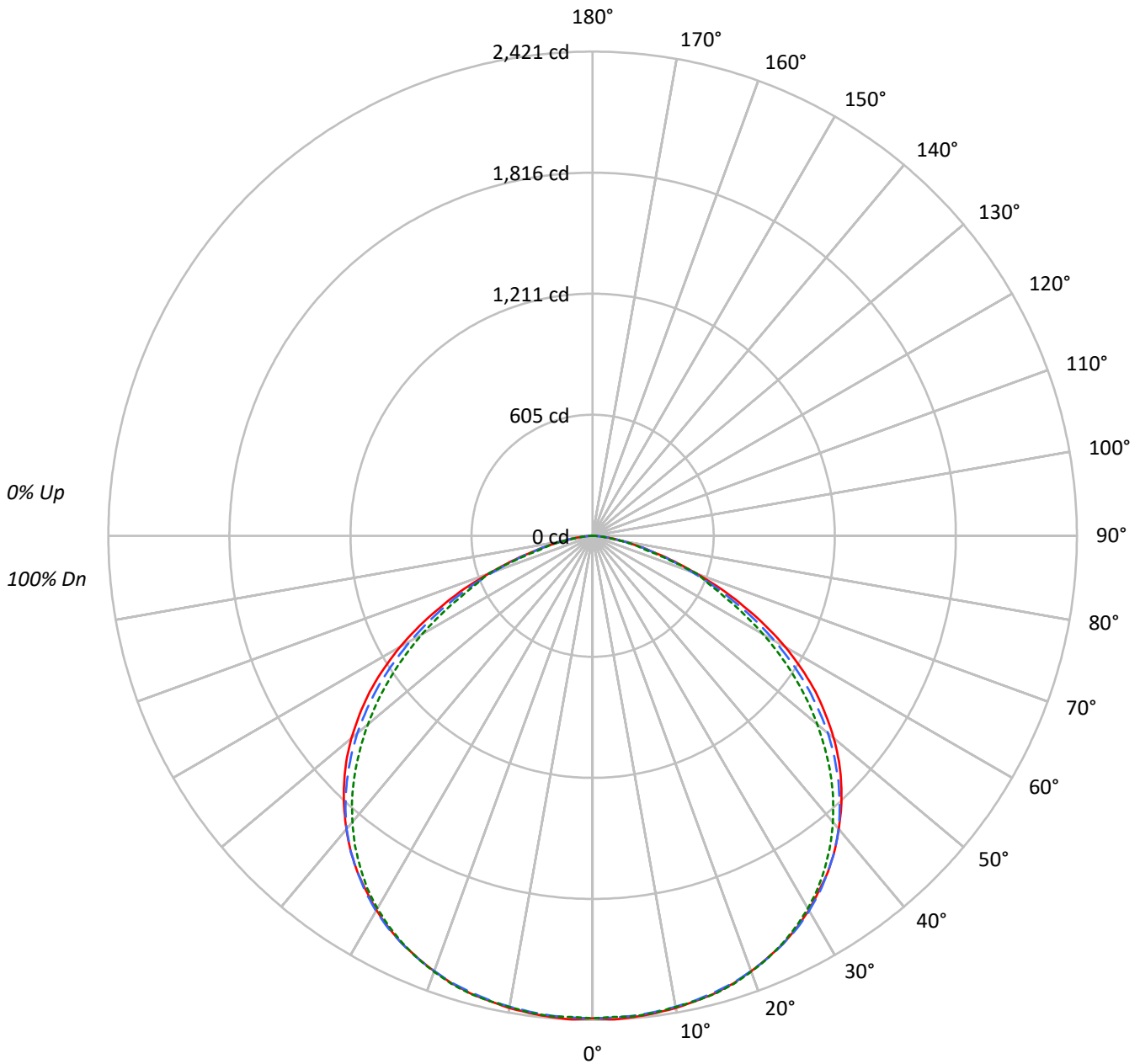
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6871.0 lumens
Efficiency: N/A
Efficacy: 81.4 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): 84.4
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: 14PD-80-PW1-L940

Luminous Intensity Polar Plot





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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 | 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° | 6492 | 6492 | 6492 |
| 5° | 6524 | 6506 | 6513 |
| 10° | 6551 | 6533 | 6536 |
| 15° | 6596 | 6581 | 6603 |
| 20° | 6635 | 6632 | 6643 |
| 25° | 6686 | 6686 | 6673 |
| 30° | 6717 | 6729 | 6687 |
| 35° | 6738 | 6738 | 6653 |
| 40° | 6726 | 6721 | 6563 |
| 45° | 6690 | 6612 | 6400 |
| 50° | 6589 | 6429 | 6138 |
| 55° | 6386 | 6117 | 5784 |
| 60° | 5982 | 5652 | 5300 |
| 65° | 5297 | 4993 | 4663 |
| 70° | 4324 | 4131 | 4356 |
| 75° | 3262 | 3204 | 2879 |
| 80° | 2346 | 2197 | 2197 |
| 85° | 1473 | 1389 | 1223 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 229.4 | 3.3 |
| 10°-20° | 667.8 | 9.7 |
| 20°-30° | 1036.7 | 15.1 |
| 30°-40° | 1276.9 | 18.6 |
| 40°-50° | 1329.4 | 19.3 |
| 50°-60° | 1156.1 | 16.8 |
| 60°-70° | 776.7 | 11.3 |
| 70°-80° | 336.2 | 4.9 |
| 80°-90° | 61.7 | 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° | 1934.0 | 28.1 |
| 0°-40° | 3210.9 | 46.7 |
| 0°-60° | 5696.4 | 82.9 |
| 0°-90° | 6871.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6871.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2413 | 2413 | 2413 | 2413 | 2413 | |
| 5° | 2415 | 2400 | 2408 | 2414 | 2411 | 230 |
| 15° | 2368 | 2351 | 2362 | 2370 | 2370 | 669 |
| 25° | 2252 | 2241 | 2252 | 2252 | 2248 | 1038 |
| 35° | 2051 | 2046 | 2051 | 2033 | 2025 | 1282 |
| 45° | 1758 | 1752 | 1738 | 1698 | 1682 | 1354 |
| 55° | 1361 | 1336 | 1304 | 1252 | 1233 | 1210 |
| 65° | 832 | 817 | 784 | 747 | 732 | 824 |
| 75° | 314 | 316 | 308 | 315 | 277 | 346 |
| 85° | 48 | 49 | 45 | 40 | 40 | 63 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506158

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2412.6 | 2412.6 | 2412.6 | 2412.6 | 2412.6 |
| 2.5° | 2420.8 | 2405.8 | 2411.2 | 2419.4 | 2408.5 |
| 5° | 2415.3 | 2400.3 | 2408.5 | 2414.0 | 2411.2 |
| 7.5° | 2407.1 | 2396.2 | 2400.3 | 2405.8 | 2404.4 |
| 10° | 2397.6 | 2386.7 | 2390.8 | 2396.2 | 2392.1 |
| 12.5° | 2382.6 | 2370.3 | 2378.5 | 2383.9 | 2382.6 |
| 15° | 2367.6 | 2351.2 | 2362.1 | 2370.3 | 2370.3 |
| 17.5° | 2345.8 | 2332.1 | 2343.0 | 2349.9 | 2348.5 |
| 20° | 2317.1 | 2307.6 | 2315.8 | 2321.2 | 2319.8 |
| 22.5° | 2284.4 | 2277.6 | 2287.1 | 2287.1 | 2287.1 |
| 25° | 2251.7 | 2240.7 | 2251.7 | 2251.7 | 2247.6 |
| 27.5° | 2209.4 | 2199.8 | 2213.5 | 2209.4 | 2202.6 |
| 30° | 2161.6 | 2156.2 | 2165.7 | 2158.9 | 2152.1 |
| 32.5° | 2105.7 | 2103.0 | 2112.5 | 2098.9 | 2093.5 |
| 35° | 2051.2 | 2045.7 | 2051.2 | 2033.4 | 2025.3 |
| 37.5° | 1987.1 | 1981.6 | 1987.1 | 1963.9 | 1951.6 |
| 40° | 1914.8 | 1910.7 | 1913.4 | 1883.4 | 1868.4 |
| 42.5° | 1839.8 | 1835.7 | 1828.9 | 1792.1 | 1779.8 |
| 45° | 1758.0 | 1752.5 | 1737.5 | 1697.9 | 1681.6 |
| 47.5° | 1670.7 | 1661.1 | 1639.3 | 1597.0 | 1575.2 |
| 50° | 1573.8 | 1560.2 | 1535.7 | 1489.3 | 1466.1 |
| 52.5° | 1468.8 | 1452.5 | 1421.1 | 1374.7 | 1352.9 |
| 55° | 1361.1 | 1336.5 | 1303.8 | 1252.0 | 1232.9 |
| 57.5° | 1238.3 | 1212.4 | 1178.3 | 1130.6 | 1108.8 |
| 60° | 1111.5 | 1085.6 | 1050.1 | 1006.5 | 984.7 |
| 62.5° | 976.5 | 953.3 | 917.8 | 876.9 | 857.8 |
| 65° | 831.9 | 816.9 | 784.2 | 747.4 | 732.4 |
| 67.5° | 695.5 | 680.5 | 653.3 | 621.9 | 627.4 |
| 70° | 549.6 | 548.3 | 525.1 | 503.2 | 553.7 |
| 72.5° | 428.2 | 425.5 | 413.2 | 402.3 | 399.6 |
| 75° | 313.7 | 316.4 | 308.2 | 315.0 | 276.9 |
| 77.5° | 220.9 | 223.7 | 222.3 | 203.2 | 212.8 |
| 80° | 151.4 | 151.4 | 141.8 | 135.0 | 141.8 |
| 82.5° | 91.4 | 109.1 | 98.2 | 80.5 | 77.7 |
| 85° | 47.7 | 49.1 | 45.0 | 39.6 | 39.6 |
| 87.5° | 17.7 | 20.5 | 17.7 | 16.4 | 15.0 |
| 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)