

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: P505861

Luminaire Tested: **14PD-25-PW1-L940**

Issue Date: 3/26/2021

Test Information

Test Method: LM-79-08
Report Number: P505861
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-25-PW1-L940
Description: 2500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

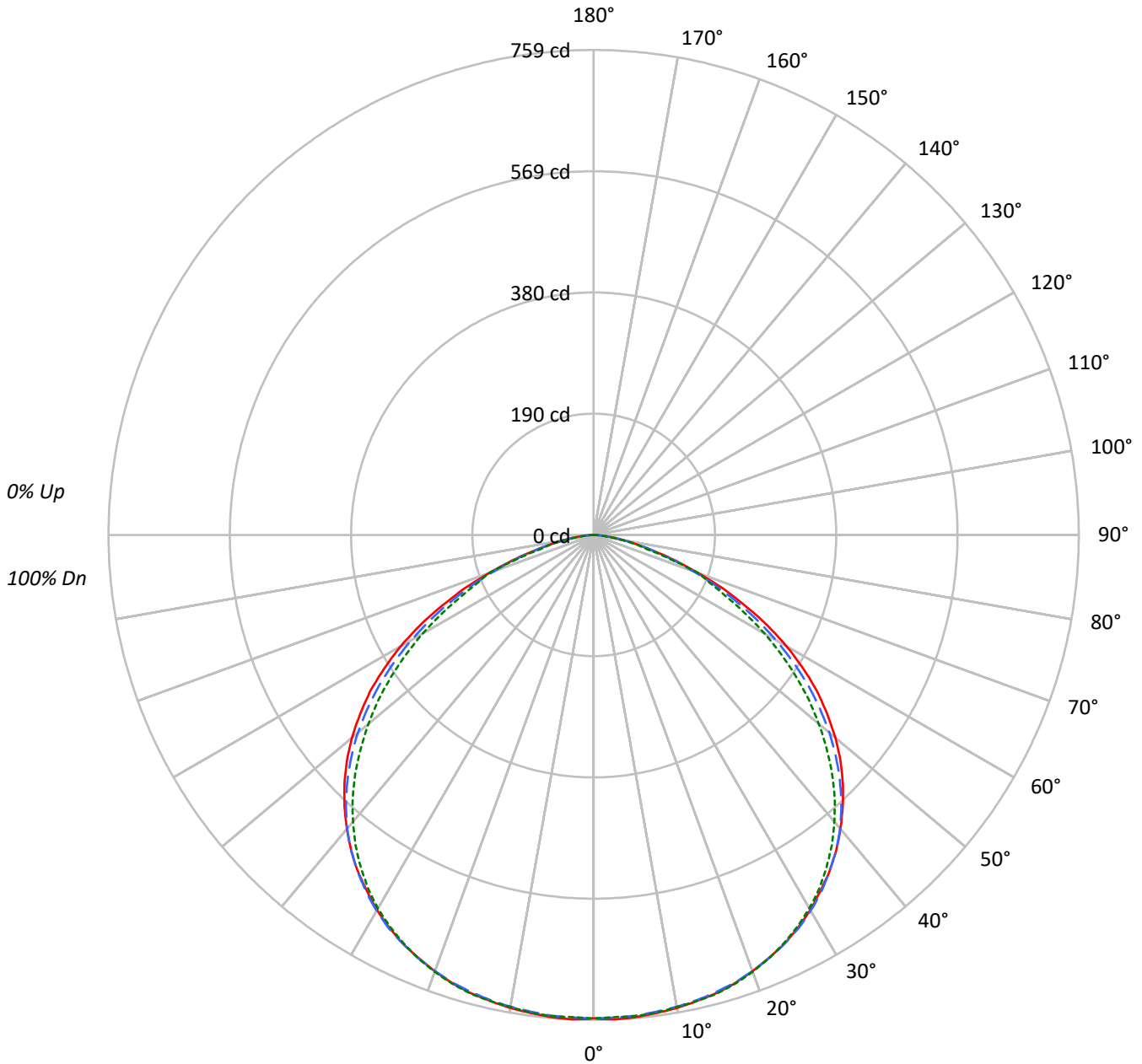
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2154.7 lumens
Efficiency: N/A
Efficacy: 94.9 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): 22.7
Input Voltage (V): NR
Input Current (Ain): 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: P505861
CATALOG NUMBER: 14PD-25-PW1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P505861

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 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 | | | | 100 |
| 1 | 110 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 | | | | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 | | | | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 42 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 | | | | 39 |
| 7 | 66 | 52 | 44 | 38 | 64 | 52 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | 35 |
| 8 | 61 | 48 | 39 | 34 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 | | | | 28 |
| 10 | 54 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 | | | | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2036 | 2036 | 2036 |
| 5° | 2046 | 2040 | 2042 |
| 10° | 2055 | 2049 | 2050 |
| 15° | 2068 | 2064 | 2071 |
| 20° | 2081 | 2080 | 2083 |
| 25° | 2097 | 2097 | 2093 |
| 30° | 2106 | 2110 | 2097 |
| 35° | 2113 | 2113 | 2086 |
| 40° | 2109 | 2108 | 2058 |
| 45° | 2098 | 2074 | 2007 |
| 50° | 2066 | 2016 | 1925 |
| 55° | 2002 | 1918 | 1814 |
| 60° | 1876 | 1772 | 1662 |
| 65° | 1661 | 1566 | 1463 |
| 70° | 1356 | 1296 | 1366 |
| 75° | 1023 | 1005 | 902 |
| 80° | 736 | 690 | 690 |
| 85° | 463 | 435 | 383 |



TEST NUMBER: P505861

CATALOG NUMBER: 14PD-25-PW1-L940

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.9 | 3.3 |
| 10°-20° | 209.4 | 9.7 |
| 20°-30° | 325.1 | 15.1 |
| 30°-40° | 400.4 | 18.6 |
| 40°-50° | 416.9 | 19.3 |
| 50°-60° | 362.5 | 16.8 |
| 60°-70° | 243.6 | 11.3 |
| 70°-80° | 105.4 | 4.9 |
| 80°-90° | 19.4 | 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° | 606.5 | 28.1 |
| 0°-40° | 1006.9 | 46.7 |
| 0°-60° | 1786.3 | 82.9 |
| 0°-90° | 2154.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2154.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 757 | 757 | 757 | 757 | 757 | |
| 5° | 757 | 753 | 755 | 757 | 756 | 72 |
| 15° | 742 | 737 | 741 | 743 | 743 | 210 |
| 25° | 706 | 703 | 706 | 706 | 705 | 325 |
| 35° | 643 | 642 | 643 | 638 | 635 | 402 |
| 45° | 551 | 550 | 545 | 532 | 527 | 425 |
| 55° | 427 | 419 | 409 | 393 | 387 | 379 |
| 65° | 261 | 256 | 246 | 234 | 230 | 258 |
| 75° | 98 | 99 | 97 | 99 | 87 | 108 |
| 85° | 15 | 15 | 14 | 12 | 12 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P505861

CATALOG NUMBER: 14PD-25-PW1-L940

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 756.6 | 756.6 | 756.6 | 756.6 | 756.6 |
| 2.5° | 759.1 | 754.4 | 756.1 | 758.7 | 755.3 |
| 5° | 757.4 | 752.7 | 755.3 | 757.0 | 756.1 |
| 7.5° | 754.8 | 751.4 | 752.7 | 754.4 | 754.0 |
| 10° | 751.9 | 748.4 | 749.7 | 751.4 | 750.1 |
| 12.5° | 747.1 | 743.3 | 745.9 | 747.6 | 747.1 |
| 15° | 742.4 | 737.3 | 740.7 | 743.3 | 743.3 |
| 17.5° | 735.6 | 731.3 | 734.7 | 736.9 | 736.5 |
| 20° | 726.6 | 723.6 | 726.2 | 727.9 | 727.5 |
| 22.5° | 716.4 | 714.2 | 717.2 | 717.2 | 717.2 |
| 25° | 706.1 | 702.7 | 706.1 | 706.1 | 704.8 |
| 27.5° | 692.8 | 689.8 | 694.1 | 692.8 | 690.7 |
| 30° | 677.9 | 676.2 | 679.1 | 677.0 | 674.9 |
| 32.5° | 660.3 | 659.5 | 662.5 | 658.2 | 656.5 |
| 35° | 643.2 | 641.5 | 643.2 | 637.7 | 635.1 |
| 37.5° | 623.1 | 621.4 | 623.1 | 615.9 | 612.0 |
| 40° | 600.5 | 599.2 | 600.0 | 590.6 | 585.9 |
| 42.5° | 576.9 | 575.7 | 573.5 | 562.0 | 558.1 |
| 45° | 551.3 | 549.6 | 544.9 | 532.5 | 527.3 |
| 47.5° | 523.9 | 520.9 | 514.1 | 500.8 | 494.0 |
| 50° | 493.5 | 489.3 | 481.6 | 467.0 | 459.8 |
| 52.5° | 460.6 | 455.5 | 445.6 | 431.1 | 424.3 |
| 55° | 426.8 | 419.1 | 408.9 | 392.6 | 386.6 |
| 57.5° | 388.3 | 380.2 | 369.5 | 354.5 | 347.7 |
| 60° | 348.6 | 340.4 | 329.3 | 315.6 | 308.8 |
| 62.5° | 306.2 | 298.9 | 287.8 | 275.0 | 269.0 |
| 65° | 260.9 | 256.2 | 245.9 | 234.4 | 229.7 |
| 67.5° | 218.1 | 213.4 | 204.9 | 195.0 | 196.7 |
| 70° | 172.4 | 171.9 | 164.7 | 157.8 | 173.6 |
| 72.5° | 134.3 | 133.4 | 129.6 | 126.2 | 125.3 |
| 75° | 98.4 | 99.2 | 96.7 | 98.8 | 86.8 |
| 77.5° | 69.3 | 70.1 | 69.7 | 63.7 | 66.7 |
| 80° | 47.5 | 47.5 | 44.5 | 42.3 | 44.5 |
| 82.5° | 28.7 | 34.2 | 30.8 | 25.2 | 24.4 |
| 85° | 15.0 | 15.4 | 14.1 | 12.4 | 12.4 |
| 87.5° | 5.6 | 6.4 | 5.6 | 5.1 | 4.7 |
| 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)