

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: P506907

Luminaire Tested: **24PD-90-PW1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-90-PW1-L830
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

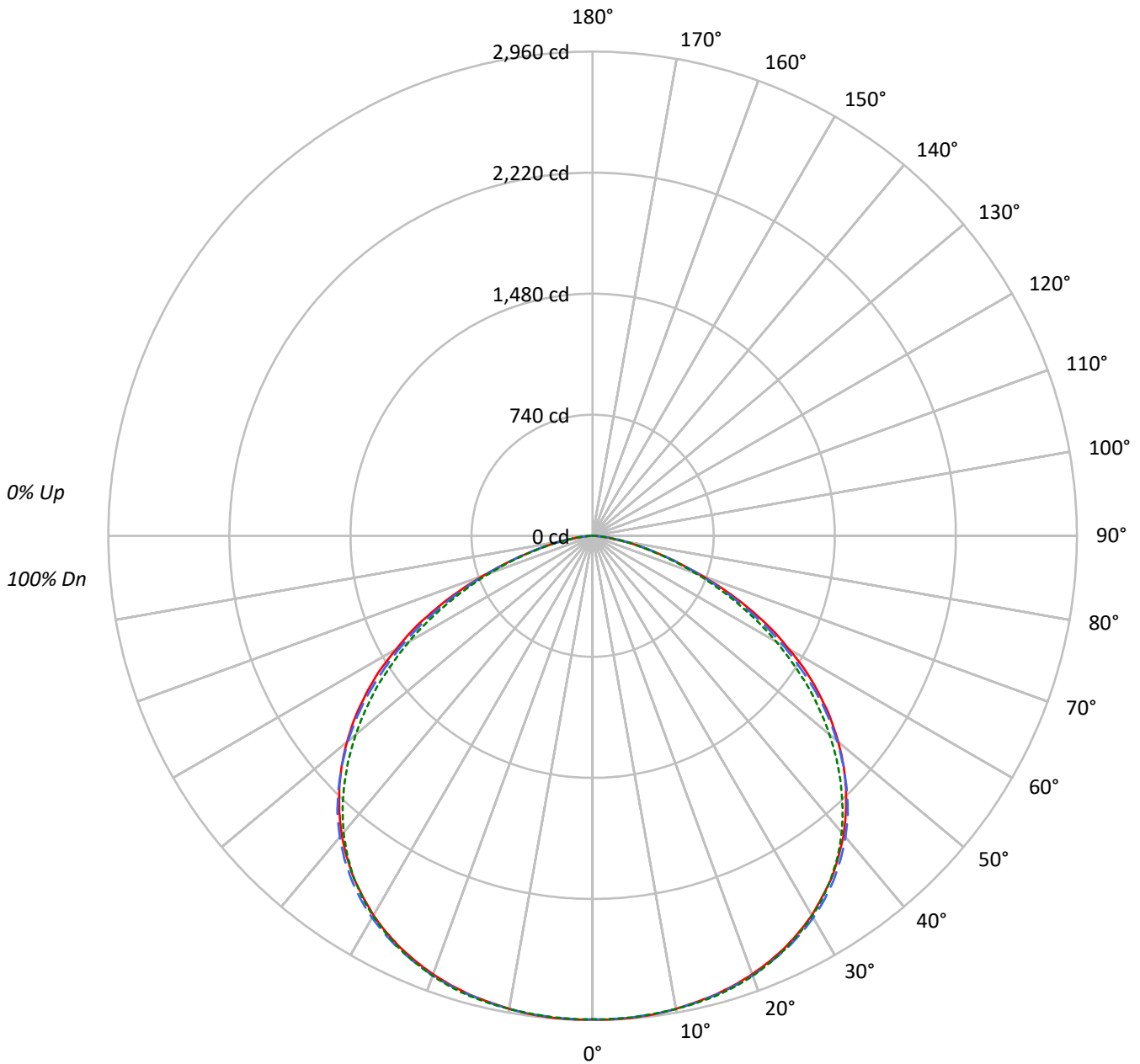
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8670.9 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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: P506907
CATALOG NUMBER: 24PD-90-PW1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P506907

CATALOG NUMBER: 24PD-90-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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3978 | 3978 | 3978 |
| 5° | 3992 | 3988 | 3988 |
| 10° | 4013 | 4013 | 4014 |
| 15° | 4045 | 4049 | 4057 |
| 20° | 4084 | 4097 | 4099 |
| 25° | 4126 | 4145 | 4138 |
| 30° | 4163 | 4190 | 4171 |
| 35° | 4187 | 4219 | 4183 |
| 40° | 4192 | 4223 | 4160 |
| 45° | 4167 | 4183 | 4082 |
| 50° | 4102 | 4083 | 3955 |
| 55° | 3971 | 3908 | 3768 |
| 60° | 3730 | 3634 | 3492 |
| 65° | 3364 | 3240 | 3109 |
| 70° | 2773 | 2731 | 2630 |
| 75° | 2120 | 2141 | 2056 |
| 80° | 1471 | 1516 | 1484 |
| 85° | 880 | 917 | 892 |



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CATALOG NUMBER: 24PD-90-PW1-L830

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 281.4 | 3.2 |
| 10°-20° | 822.0 | 9.5 |
| 20°-30° | 1285.5 | 14.8 |
| 30°-40° | 1599.1 | 18.4 |
| 40°-50° | 1680.5 | 19.4 |
| 50°-60° | 1475.1 | 17.0 |
| 60°-70° | 1004.5 | 11.6 |
| 70°-80° | 443.1 | 5.1 |
| 80°-90° | 79.8 | 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° | 2388.9 | 27.6 |
| 0°-40° | 3988.0 | 46.0 |
| 0°-60° | 7143.6 | 82.4 |
| 0°-90° | 8670.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8670.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2957 | 2957 | 2957 | 2957 | 2957 | |
| 5° | 2956 | 2955 | 2953 | 2949 | 2953 | 282 |
| 15° | 2904 | 2907 | 2906 | 2906 | 2912 | 821 |
| 25° | 2779 | 2787 | 2792 | 2790 | 2788 | 1282 |
| 35° | 2549 | 2561 | 2569 | 2556 | 2547 | 1593 |
| 45° | 2190 | 2204 | 2198 | 2162 | 2145 | 1687 |
| 55° | 1693 | 1686 | 1666 | 1622 | 1606 | 1509 |
| 65° | 1057 | 1031 | 1018 | 996 | 976 | 1041 |
| 75° | 408 | 410 | 412 | 404 | 395 | 446 |
| 85° | 57 | 59 | 59 | 59 | 58 | 78 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506907

CATALOG NUMBER: 24PD-90-PW1-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2956.8 | 2956.8 | 2956.8 | 2956.8 | 2956.8 |
| 2.5° | 2960.1 | 2958.5 | 2956.8 | 2954.3 | 2956.8 |
| 5° | 2956.0 | 2955.2 | 2952.7 | 2949.4 | 2952.7 |
| 7.5° | 2949.4 | 2949.4 | 2946.9 | 2944.4 | 2946.1 |
| 10° | 2937.0 | 2939.5 | 2937.0 | 2934.5 | 2937.8 |
| 12.5° | 2920.5 | 2924.6 | 2923.8 | 2923.8 | 2926.3 |
| 15° | 2904.0 | 2907.3 | 2906.5 | 2906.5 | 2912.2 |
| 17.5° | 2880.9 | 2885.0 | 2885.8 | 2887.5 | 2890.8 |
| 20° | 2852.0 | 2857.8 | 2861.1 | 2860.2 | 2862.7 |
| 22.5° | 2818.1 | 2824.7 | 2827.2 | 2828.9 | 2827.2 |
| 25° | 2779.3 | 2786.8 | 2791.7 | 2790.1 | 2787.6 |
| 27.5° | 2732.3 | 2740.5 | 2747.1 | 2743.0 | 2738.1 |
| 30° | 2679.5 | 2686.9 | 2696.8 | 2689.4 | 2684.4 |
| 32.5° | 2614.2 | 2628.3 | 2637.4 | 2628.3 | 2620.8 |
| 35° | 2549.0 | 2560.6 | 2568.8 | 2556.5 | 2546.6 |
| 37.5° | 2469.8 | 2483.8 | 2491.3 | 2473.9 | 2463.2 |
| 40° | 2386.4 | 2400.5 | 2404.6 | 2382.3 | 2368.3 |
| 42.5° | 2291.5 | 2307.2 | 2308.8 | 2277.5 | 2261.8 |
| 45° | 2190.0 | 2204.0 | 2198.2 | 2161.9 | 2145.4 |
| 47.5° | 2080.2 | 2090.1 | 2077.7 | 2040.5 | 2022.4 |
| 50° | 1959.7 | 1965.4 | 1950.6 | 1906.8 | 1889.5 |
| 52.5° | 1832.5 | 1831.7 | 1812.7 | 1769.0 | 1750.0 |
| 55° | 1693.0 | 1686.4 | 1665.8 | 1622.0 | 1606.4 |
| 57.5° | 1550.2 | 1529.6 | 1507.3 | 1470.2 | 1449.5 |
| 60° | 1386.0 | 1370.3 | 1350.5 | 1313.3 | 1297.6 |
| 62.5° | 1230.8 | 1202.7 | 1186.2 | 1153.2 | 1139.1 |
| 65° | 1056.6 | 1031.0 | 1017.8 | 995.5 | 976.5 |
| 67.5° | 881.6 | 861.8 | 852.7 | 837.0 | 819.7 |
| 70° | 704.9 | 699.2 | 694.2 | 679.4 | 668.6 |
| 72.5° | 548.9 | 547.3 | 546.5 | 538.2 | 527.5 |
| 75° | 407.8 | 410.3 | 411.9 | 404.5 | 395.4 |
| 77.5° | 290.6 | 294.7 | 293.9 | 289.7 | 287.3 |
| 80° | 189.9 | 193.2 | 195.6 | 191.5 | 191.5 |
| 82.5° | 114.7 | 118.0 | 117.2 | 118.9 | 115.6 |
| 85° | 57.0 | 59.4 | 59.4 | 58.6 | 57.8 |
| 87.5° | 20.6 | 21.5 | 20.6 | 21.5 | 20.6 |
| 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)