

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: P738687

Luminaire Tested: **24PT-90-PC3-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-90-PC3-L830
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

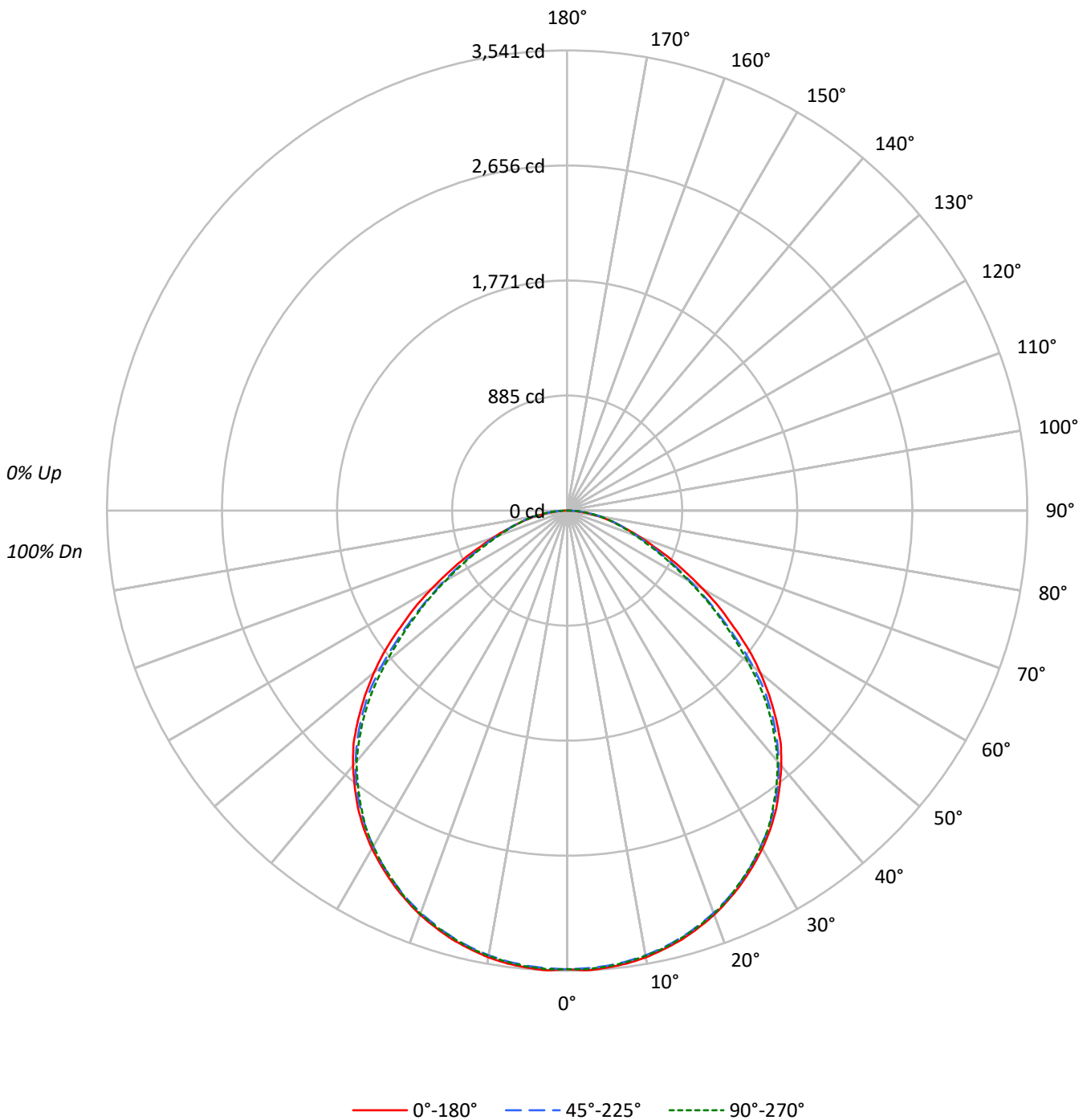
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8902.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 75.7
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

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CATALOG NUMBER: 24PT-90-PC3-L830

Luminous Intensity Polar Plot





TEST NUMBER: P738687

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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 | 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 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 |
| 3 | 92 | 82 | 74 | 68 | 90 | 81 | 73 | 68 | 78 | 72 | 67 | 75 | 70 | 65 | 72 | 68 | 64 | 62 |
| 4 | 85 | 73 | 65 | 59 | 82 | 72 | 64 | 58 | 69 | 63 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 55 | 50 | 61 | 54 | 50 | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 45 | 70 | 59 | 50 | 44 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 41 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 49 | 41 | 36 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5060 | 5060 | 5060 |
| 5° | 5082 | 5061 | 5071 |
| 10° | 5083 | 5060 | 5067 |
| 15° | 5071 | 5048 | 5054 |
| 20° | 5051 | 5027 | 5037 |
| 25° | 5016 | 4991 | 4990 |
| 30° | 4973 | 4941 | 4939 |
| 35° | 4907 | 4867 | 4845 |
| 40° | 4797 | 4740 | 4718 |
| 45° | 4611 | 4525 | 4462 |
| 50° | 4330 | 4163 | 4053 |
| 55° | 3914 | 3649 | 3580 |
| 60° | 3462 | 3158 | 3096 |
| 65° | 2959 | 2736 | 2666 |
| 70° | 2508 | 2401 | 2331 |
| 75° | 2198 | 2237 | 2160 |
| 80° | 1971 | 2173 | 2052 |
| 85° | 1665 | 1987 | 1890 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 334.6 | 3.8 |
| 10°-20° | 960.5 | 10.8 |
| 20°-30° | 1455.0 | 16.3 |
| 30°-40° | 1737.8 | 19.5 |
| 40°-50° | 1714.3 | 19.3 |
| 50°-60° | 1327.1 | 14.9 |
| 60°-70° | 815.7 | 9.2 |
| 70°-80° | 427.4 | 4.8 |
| 80°-90° | 129.6 | 1.5 |
| 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° | 2750.1 | 30.9 |
| 0°-40° | 4487.9 | 50.4 |
| 0°-60° | 7529.3 | 84.6 |
| 0°-90° | 8902.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8902.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3529 | 3529 | 3529 | 3529 | 3529 | |
| 5° | 3531 | 3520 | 3516 | 3514 | 3523 | 336 |
| 15° | 3416 | 3405 | 3400 | 3398 | 3404 | 964 |
| 25° | 3171 | 3161 | 3155 | 3153 | 3154 | 1461 |
| 35° | 2803 | 2790 | 2781 | 2772 | 2768 | 1750 |
| 45° | 2274 | 2257 | 2232 | 2208 | 2200 | 1749 |
| 55° | 1566 | 1523 | 1460 | 1438 | 1432 | 1405 |
| 65° | 872 | 832 | 806 | 783 | 786 | 870 |
| 75° | 397 | 401 | 404 | 396 | 390 | 428 |
| 85° | 101 | 113 | 121 | 118 | 115 | 118 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738687

CATALOG NUMBER: 24PT-90-PC3-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3529.1 | 3529.1 | 3529.1 | 3529.1 | 3529.1 |
| 2.5° | 3540.9 | 3530.1 | 3525.2 | 3524.2 | 3532.1 |
| 5° | 3531.1 | 3520.3 | 3516.4 | 3514.4 | 3523.2 |
| 7.5° | 3515.4 | 3503.6 | 3499.7 | 3496.7 | 3504.6 |
| 10° | 3490.8 | 3479.0 | 3475.1 | 3473.1 | 3480.0 |
| 12.5° | 3455.5 | 3444.6 | 3441.7 | 3438.8 | 3447.6 |
| 15° | 3416.2 | 3405.4 | 3400.4 | 3397.5 | 3404.4 |
| 17.5° | 3365.1 | 3356.2 | 3350.4 | 3350.4 | 3356.2 |
| 20° | 3310.1 | 3299.3 | 3294.4 | 3291.4 | 3301.2 |
| 22.5° | 3242.3 | 3235.4 | 3229.5 | 3224.6 | 3235.4 |
| 25° | 3170.6 | 3160.8 | 3154.9 | 3152.9 | 3153.9 |
| 27.5° | 3089.1 | 3082.2 | 3074.4 | 3071.4 | 3073.4 |
| 30° | 3003.6 | 2994.8 | 2984.0 | 2978.1 | 2983.0 |
| 32.5° | 2908.4 | 2895.6 | 2886.7 | 2880.9 | 2887.7 |
| 35° | 2803.3 | 2790.5 | 2780.7 | 2771.8 | 2767.9 |
| 37.5° | 2683.4 | 2679.5 | 2665.7 | 2650.0 | 2649.0 |
| 40° | 2562.6 | 2551.8 | 2532.2 | 2525.3 | 2520.4 |
| 42.5° | 2433.0 | 2410.4 | 2389.7 | 2370.1 | 2363.2 |
| 45° | 2273.8 | 2257.1 | 2231.6 | 2208.0 | 2200.2 |
| 47.5° | 2110.8 | 2089.2 | 2064.6 | 2023.4 | 2018.5 |
| 50° | 1940.9 | 1909.4 | 1866.2 | 1831.8 | 1817.1 |
| 52.5° | 1764.1 | 1721.8 | 1661.9 | 1632.5 | 1624.6 |
| 55° | 1565.7 | 1523.4 | 1459.6 | 1438.0 | 1432.1 |
| 57.5° | 1388.9 | 1327.0 | 1274.9 | 1250.4 | 1258.2 |
| 60° | 1207.1 | 1147.2 | 1101.1 | 1077.5 | 1079.5 |
| 62.5° | 1029.4 | 982.2 | 947.8 | 925.3 | 928.2 |
| 65° | 872.2 | 831.9 | 806.4 | 782.8 | 785.8 |
| 67.5° | 718.0 | 699.3 | 680.7 | 666.9 | 659.1 |
| 70° | 598.2 | 590.3 | 572.6 | 559.9 | 555.9 |
| 72.5° | 489.1 | 494.1 | 479.3 | 475.4 | 474.4 |
| 75° | 396.8 | 400.7 | 403.7 | 395.8 | 389.9 |
| 77.5° | 317.3 | 323.2 | 334.9 | 324.1 | 322.2 |
| 80° | 238.7 | 250.5 | 263.2 | 256.4 | 248.5 |
| 82.5° | 167.0 | 181.7 | 193.5 | 184.7 | 180.7 |
| 85° | 101.2 | 113.0 | 120.8 | 117.9 | 114.9 |
| 87.5° | 45.2 | 49.1 | 53.0 | 54.0 | 52.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)