

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: P738599

Luminaire Tested: **24PT-60-PL1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-60-PL1-L830
Description: 6000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

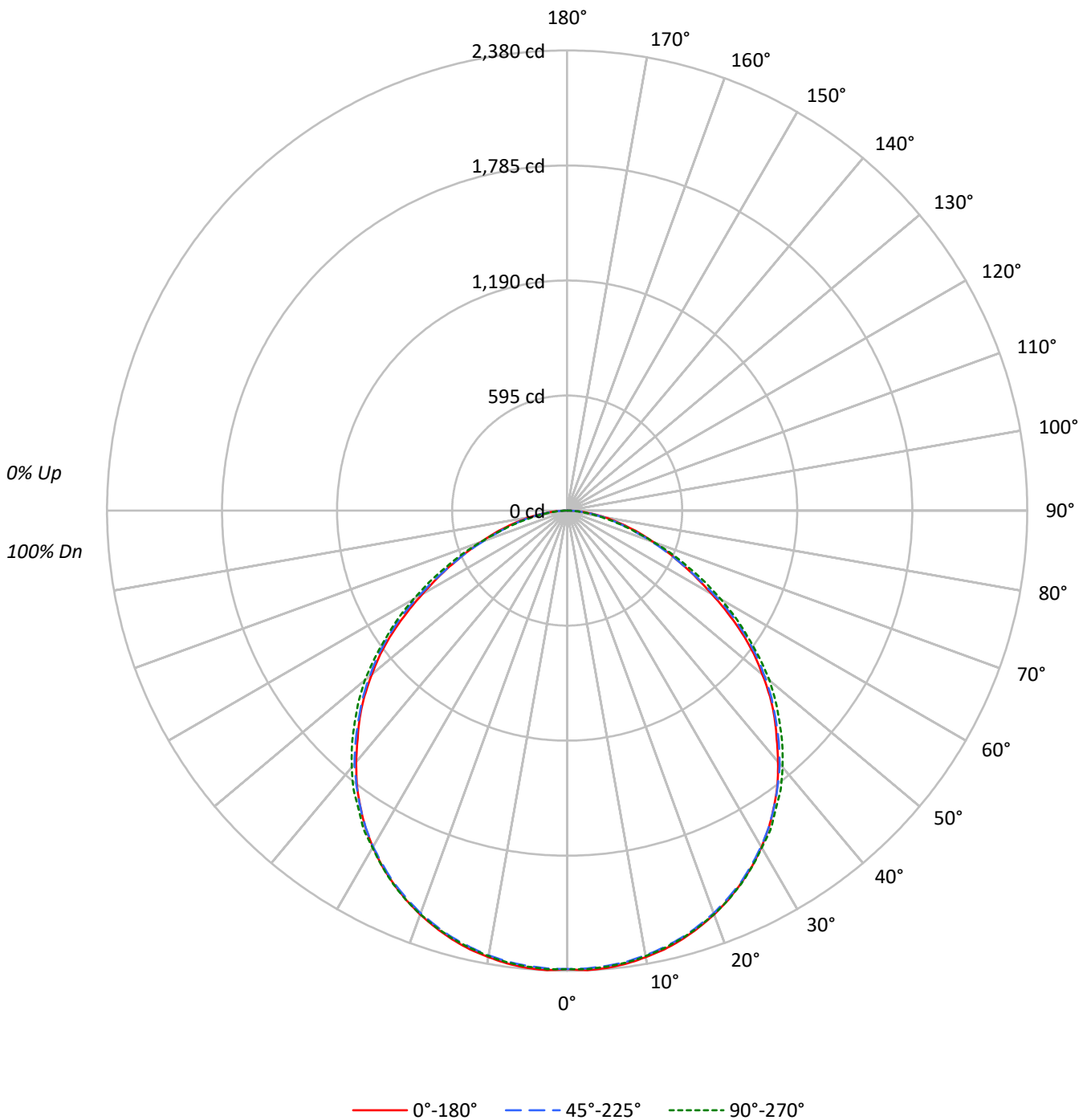
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6277.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 50.7
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

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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 | 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 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 62 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 47 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3400 | 3400 | 3400 |
| 5° | 3417 | 3402 | 3407 |
| 10° | 3415 | 3401 | 3407 |
| 15° | 3409 | 3395 | 3402 |
| 20° | 3392 | 3381 | 3390 |
| 25° | 3367 | 3359 | 3370 |
| 30° | 3327 | 3322 | 3334 |
| 35° | 3267 | 3268 | 3293 |
| 40° | 3177 | 3201 | 3245 |
| 45° | 3078 | 3092 | 3153 |
| 50° | 2941 | 2974 | 3046 |
| 55° | 2761 | 2812 | 2854 |
| 60° | 2479 | 2539 | 2633 |
| 65° | 2218 | 2223 | 2343 |
| 70° | 1978 | 1923 | 1992 |
| 75° | 1786 | 1680 | 1650 |
| 80° | 1587 | 1481 | 1305 |
| 85° | 1301 | 1234 | 1020 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 224.9 | 3.6 |
| 10°-20° | 645.9 | 10.3 |
| 20°-30° | 978.5 | 15.6 |
| 30°-40° | 1169.4 | 18.6 |
| 40°-50° | 1179.6 | 18.8 |
| 50°-60° | 1000.8 | 15.9 |
| 60°-70° | 662.2 | 10.5 |
| 70°-80° | 328.6 | 5.2 |
| 80°-90° | 86.9 | 1.4 |
| 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° | 1849.4 | 29.5 |
| 0°-40° | 3018.8 | 48.1 |
| 0°-60° | 5199.2 | 82.8 |
| 0°-90° | 6277.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6277.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2371 | 2371 | 2371 | 2371 | 2371 | |
| 5° | 2374 | 2366 | 2364 | 2363 | 2367 | 226 |
| 15° | 2296 | 2289 | 2287 | 2287 | 2292 | 648 |
| 25° | 2128 | 2123 | 2123 | 2123 | 2130 | 980 |
| 35° | 1866 | 1864 | 1867 | 1877 | 1881 | 1166 |
| 45° | 1518 | 1516 | 1525 | 1545 | 1555 | 1168 |
| 55° | 1104 | 1107 | 1125 | 1135 | 1142 | 982 |
| 65° | 654 | 652 | 655 | 676 | 690 | 652 |
| 75° | 322 | 314 | 303 | 294 | 298 | 345 |
| 85° | 79 | 79 | 75 | 69 | 62 | 94 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738599

CATALOG NUMBER: 24PT-60-PL1-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2371.4 | 2371.4 | 2371.4 | 2371.4 | 2371.4 |
| 2.5° | 2379.6 | 2372.1 | 2370.1 | 2368.7 | 2374.2 |
| 5° | 2374.2 | 2366.0 | 2363.9 | 2362.6 | 2367.3 |
| 7.5° | 2363.2 | 2354.4 | 2353.0 | 2351.7 | 2357.8 |
| 10° | 2345.5 | 2337.3 | 2336.0 | 2334.6 | 2340.1 |
| 12.5° | 2324.4 | 2316.2 | 2313.5 | 2314.2 | 2317.6 |
| 15° | 2296.4 | 2288.9 | 2286.9 | 2286.9 | 2291.7 |
| 17.5° | 2261.7 | 2254.9 | 2253.5 | 2252.8 | 2259.0 |
| 20° | 2222.8 | 2216.0 | 2216.0 | 2218.1 | 2221.5 |
| 22.5° | 2178.5 | 2173.7 | 2171.0 | 2172.4 | 2179.2 |
| 25° | 2128.1 | 2123.3 | 2123.3 | 2122.6 | 2130.1 |
| 27.5° | 2072.2 | 2066.0 | 2066.0 | 2071.5 | 2074.2 |
| 30° | 2009.5 | 2004.0 | 2006.7 | 2010.8 | 2013.6 |
| 32.5° | 1942.0 | 1938.6 | 1940.6 | 1946.8 | 1957.7 |
| 35° | 1866.3 | 1863.6 | 1867.0 | 1877.2 | 1881.3 |
| 37.5° | 1787.3 | 1785.2 | 1790.0 | 1803.6 | 1815.2 |
| 40° | 1697.3 | 1697.3 | 1710.2 | 1722.5 | 1733.4 |
| 42.5° | 1603.9 | 1610.0 | 1619.6 | 1638.7 | 1648.2 |
| 45° | 1518.0 | 1516.0 | 1524.8 | 1545.3 | 1554.8 |
| 47.5° | 1422.6 | 1420.5 | 1433.5 | 1447.8 | 1463.5 |
| 50° | 1318.3 | 1317.6 | 1333.3 | 1345.6 | 1365.3 |
| 52.5° | 1216.7 | 1222.9 | 1233.1 | 1244.0 | 1255.6 |
| 55° | 1104.3 | 1107.0 | 1124.7 | 1134.9 | 1141.7 |
| 57.5° | 982.9 | 991.8 | 1013.6 | 1028.6 | 1034.7 |
| 60° | 864.3 | 869.8 | 885.4 | 912.0 | 918.2 |
| 62.5° | 756.6 | 758.7 | 768.2 | 798.2 | 806.4 |
| 65° | 653.7 | 652.3 | 655.1 | 675.5 | 690.5 |
| 67.5° | 560.3 | 554.9 | 554.9 | 565.8 | 584.2 |
| 70° | 471.7 | 463.5 | 458.7 | 462.2 | 475.1 |
| 72.5° | 397.4 | 386.5 | 374.2 | 372.2 | 380.4 |
| 75° | 322.4 | 313.6 | 303.3 | 293.8 | 297.9 |
| 77.5° | 257.0 | 249.5 | 239.9 | 229.0 | 223.6 |
| 80° | 192.2 | 189.5 | 179.3 | 169.0 | 158.1 |
| 82.5° | 134.3 | 132.2 | 125.4 | 117.2 | 110.4 |
| 85° | 79.1 | 79.1 | 75.0 | 68.8 | 62.0 |
| 87.5° | 35.4 | 34.1 | 35.4 | 30.0 | 27.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)