

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: P413287

Luminaire Tested: **24PD-90-PC3-L940**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P413287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-90-PC3-L940
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

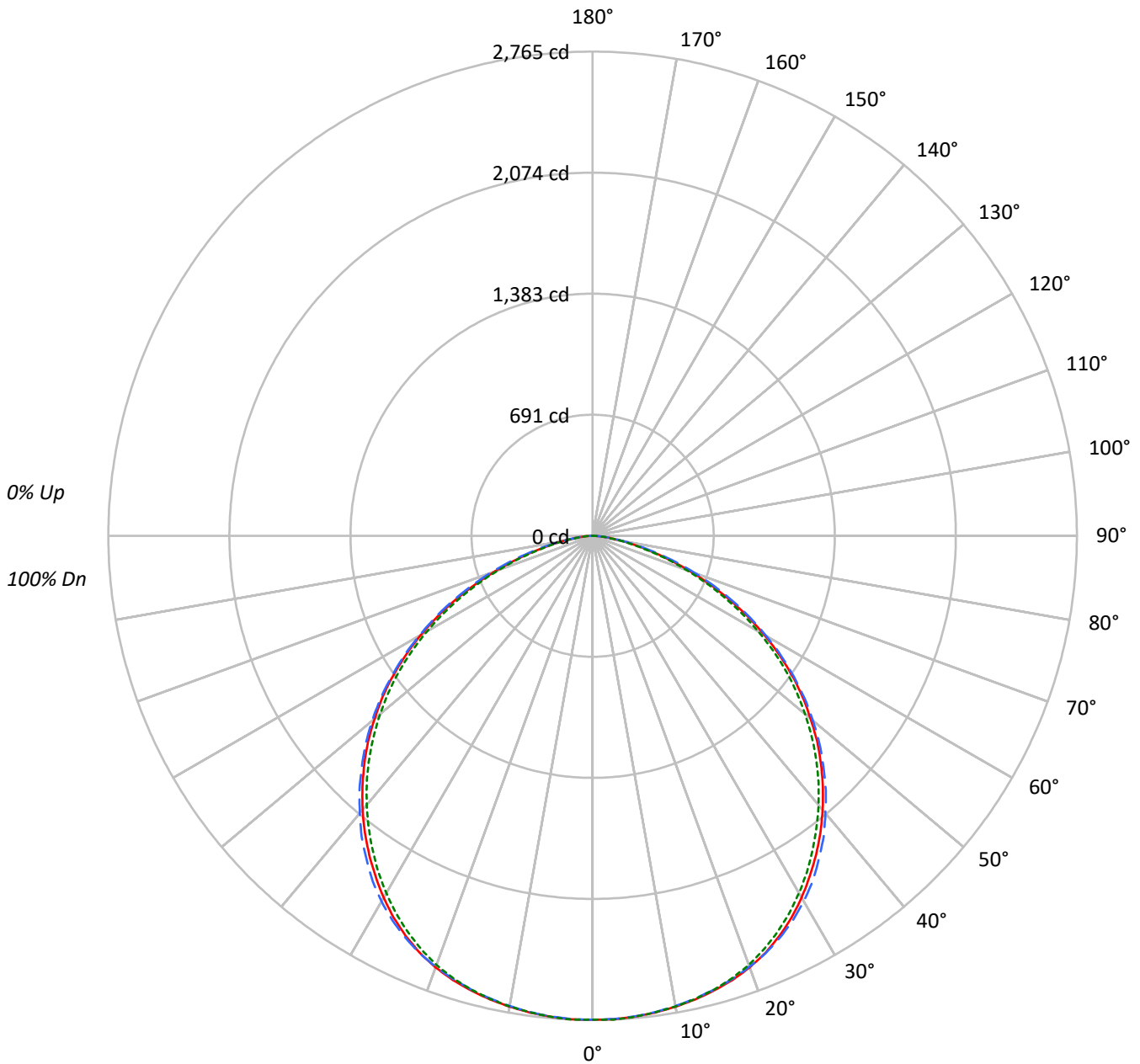
Lumens per Lamp: N/A
Luminaire Lumens: 7554.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3718 | 3718 | 3718 |
| 5° | 3723 | 3721 | 3724 |
| 10° | 3731 | 3726 | 3729 |
| 15° | 3743 | 3735 | 3737 |
| 20° | 3755 | 3750 | 3734 |
| 25° | 3745 | 3759 | 3706 |
| 30° | 3707 | 3747 | 3661 |
| 35° | 3653 | 3699 | 3597 |
| 40° | 3589 | 3632 | 3524 |
| 45° | 3508 | 3546 | 3435 |
| 50° | 3399 | 3437 | 3315 |
| 55° | 3259 | 3288 | 3162 |
| 60° | 3043 | 3078 | 2938 |
| 65° | 2742 | 2810 | 2635 |
| 70° | 2328 | 2430 | 2234 |
| 75° | 1803 | 1934 | 1719 |
| 80° | 1340 | 1400 | 1216 |
| 85° | 827 | 886 | 769 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 262.2 | 3.5 |
| 10°-20° | 757.9 | 10.0 |
| 20°-30° | 1160.7 | 15.4 |
| 30°-40° | 1396.3 | 18.5 |
| 40°-50° | 1423.8 | 18.8 |
| 50°-60° | 1234.4 | 16.3 |
| 60°-70° | 855.8 | 11.3 |
| 70°-80° | 390.9 | 5.2 |
| 80°-90° | 72.2 | 1.0 |
| 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° | 2180.7 | 28.9 |
| 0°-40° | 3577.0 | 47.4 |
| 0°-60° | 6235.2 | 82.5 |
| 0°-90° | 7554.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7554.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2764 | 2764 | 2764 | 2764 | 2764 | |
| 5° | 2757 | 2757 | 2755 | 2754 | 2758 | 262 |
| 15° | 2687 | 2686 | 2682 | 2679 | 2682 | 759 |
| 25° | 2522 | 2529 | 2532 | 2510 | 2496 | 1161 |
| 35° | 2224 | 2248 | 2252 | 2223 | 2190 | 1391 |
| 45° | 1843 | 1866 | 1863 | 1838 | 1805 | 1421 |
| 55° | 1390 | 1398 | 1402 | 1367 | 1348 | 1238 |
| 65° | 861 | 880 | 883 | 853 | 828 | 851 |
| 75° | 347 | 366 | 372 | 360 | 331 | 379 |
| 85° | 54 | 55 | 57 | 54 | 50 | 72 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P413287

CATALOG NUMBER: 24PD-90-PC3-L940

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2763.6 | 2763.6 | 2763.6 | 2763.6 | 2763.6 |
| 2.5° | 2763.6 | 2763.6 | 2762.1 | 2760.6 | 2765.2 |
| 5° | 2756.7 | 2756.7 | 2755.2 | 2753.7 | 2757.5 |
| 7.5° | 2746.0 | 2745.3 | 2743.7 | 2742.2 | 2744.5 |
| 10° | 2730.7 | 2730.0 | 2726.9 | 2726.1 | 2729.2 |
| 12.5° | 2711.6 | 2710.8 | 2706.2 | 2706.2 | 2708.5 |
| 15° | 2687.1 | 2686.3 | 2681.7 | 2679.4 | 2682.5 |
| 17.5° | 2659.5 | 2658.8 | 2653.4 | 2647.3 | 2648.8 |
| 20° | 2622.8 | 2622.8 | 2618.9 | 2609.8 | 2607.5 |
| 22.5° | 2578.4 | 2580.7 | 2580.7 | 2563.1 | 2556.2 |
| 25° | 2522.5 | 2529.4 | 2531.7 | 2509.5 | 2496.5 |
| 27.5° | 2458.9 | 2469.7 | 2475.8 | 2447.5 | 2430.6 |
| 30° | 2386.2 | 2403.8 | 2411.5 | 2380.9 | 2356.4 |
| 32.5° | 2306.6 | 2328.8 | 2338.0 | 2308.1 | 2276.7 |
| 35° | 2223.9 | 2247.7 | 2252.3 | 2223.2 | 2190.2 |
| 37.5° | 2135.9 | 2160.4 | 2166.5 | 2140.5 | 2099.9 |
| 40° | 2043.3 | 2067.8 | 2067.8 | 2046.3 | 2006.5 |
| 42.5° | 1945.3 | 1971.3 | 1970.5 | 1944.5 | 1908.5 |
| 45° | 1843.4 | 1866.4 | 1863.4 | 1838.1 | 1805.2 |
| 47.5° | 1738.6 | 1753.1 | 1756.9 | 1727.1 | 1695.7 |
| 50° | 1623.7 | 1638.3 | 1642.1 | 1608.4 | 1583.9 |
| 52.5° | 1510.4 | 1519.6 | 1525.0 | 1485.9 | 1468.3 |
| 55° | 1389.5 | 1397.9 | 1401.7 | 1367.3 | 1348.1 |
| 57.5° | 1261.6 | 1272.3 | 1276.9 | 1242.5 | 1221.1 |
| 60° | 1130.7 | 1142.2 | 1143.7 | 1111.6 | 1091.7 |
| 62.5° | 997.5 | 1012.8 | 1015.9 | 983.7 | 960.0 |
| 65° | 861.2 | 879.6 | 882.7 | 852.8 | 827.6 |
| 67.5° | 725.0 | 749.5 | 750.2 | 725.7 | 695.9 |
| 70° | 591.8 | 618.6 | 617.8 | 597.1 | 568.0 |
| 72.5° | 464.7 | 489.2 | 494.5 | 475.4 | 447.1 |
| 75° | 346.8 | 365.9 | 372.1 | 359.8 | 330.7 |
| 77.5° | 246.5 | 264.1 | 269.5 | 258.0 | 236.6 |
| 80° | 173.0 | 173.8 | 180.7 | 171.5 | 156.9 |
| 82.5° | 107.2 | 105.6 | 107.9 | 104.1 | 95.7 |
| 85° | 53.6 | 55.1 | 57.4 | 54.4 | 49.8 |
| 87.5° | 18.4 | 19.1 | 20.7 | 20.7 | 18.4 |
| 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)