

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: P413010

Luminaire Tested: **14PD-50-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-50-PC3-L830
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

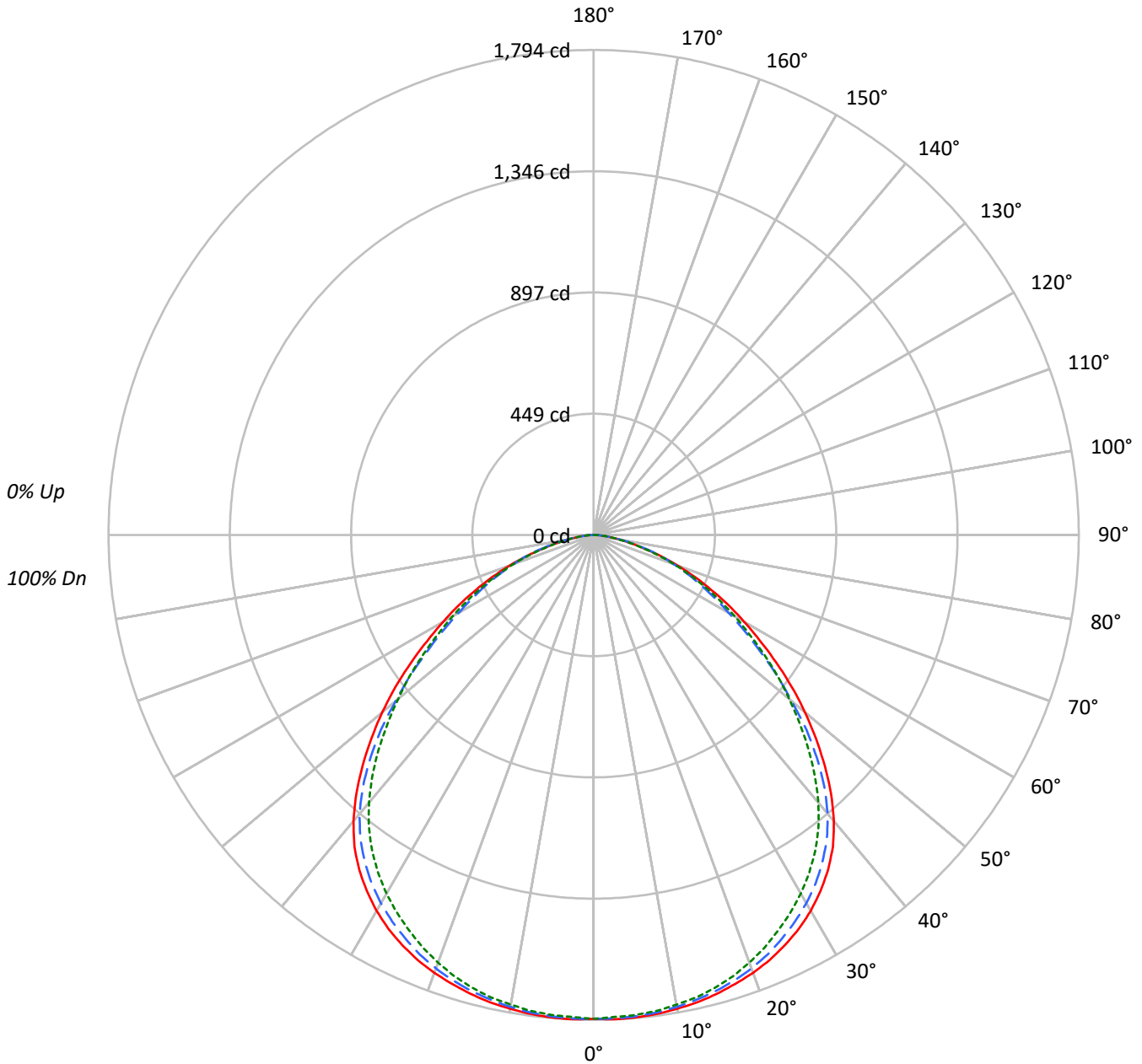
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4625.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
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





TEST NUMBER: P413010

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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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | | | | | | | | | | | | | | | | | | | |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 79 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | | | | | | | | | | | | | | | | | | | |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 62 | | | | | | | | | | | | | | | | | | | |
| 4 | 85 | 73 | 65 | 59 | 83 | 72 | 64 | 58 | 70 | 63 | 58 | 67 | 62 | 57 | 65 | 60 | 56 | 54 | | | | | | | | | | | | | | | | | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 6 | 72 | 60 | 51 | 45 | 70 | 59 | 50 | 45 | 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° | 4816 | 4816 | 4816 |
| 5° | 4841 | 4828 | 4815 |
| 10° | 4864 | 4845 | 4821 |
| 15° | 4897 | 4866 | 4831 |
| 20° | 4936 | 4887 | 4821 |
| 25° | 4972 | 4892 | 4793 |
| 30° | 4989 | 4888 | 4760 |
| 35° | 4967 | 4847 | 4691 |
| 40° | 4854 | 4729 | 4540 |
| 45° | 4601 | 4444 | 4281 |
| 50° | 4271 | 3998 | 3952 |
| 55° | 3867 | 3524 | 3603 |
| 60° | 3458 | 3104 | 3240 |
| 65° | 3051 | 2783 | 2879 |
| 70° | 2596 | 2466 | 2484 |
| 75° | 1996 | 2103 | 1938 |
| 80° | 1463 | 1537 | 1450 |
| 85° | 979 | 1078 | 1053 |



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CATALOG NUMBER: 14PD-50-PC3-L830

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 170.0 | 3.7 |
| 10°-20° | 493.0 | 10.7 |
| 20°-30° | 758.3 | 16.4 |
| 30°-40° | 917.5 | 19.8 |
| 40°-50° | 895.7 | 19.4 |
| 50°-60° | 692.2 | 15.0 |
| 60°-70° | 444.5 | 9.6 |
| 70°-80° | 209.8 | 4.5 |
| 80°-90° | 44.0 | 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° | 1421.3 | 30.7 |
| 0°-40° | 2338.8 | 50.6 |
| 0°-60° | 3926.7 | 84.9 |
| 0°-90° | 4625.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4625.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1790 | 1790 | 1790 | 1790 | 1790 | |
| 5° | 1792 | 1784 | 1787 | 1786 | 1782 | 171 |
| 15° | 1758 | 1749 | 1747 | 1740 | 1734 | 497 |
| 25° | 1675 | 1661 | 1648 | 1626 | 1614 | 772 |
| 35° | 1512 | 1496 | 1476 | 1442 | 1428 | 943 |
| 45° | 1209 | 1194 | 1168 | 1138 | 1125 | 930 |
| 55° | 824 | 785 | 751 | 752 | 768 | 739 |
| 65° | 479 | 451 | 437 | 432 | 452 | 477 |
| 75° | 192 | 195 | 202 | 186 | 186 | 211 |
| 85° | 32 | 36 | 35 | 34 | 34 | 41 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P413010

CATALOG NUMBER: 14PD-50-PC3-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1789.7 | 1789.7 | 1789.7 | 1789.7 | 1789.7 |
| 2.5° | 1793.6 | 1786.5 | 1790.5 | 1790.5 | 1784.9 |
| 5° | 1792.0 | 1784.1 | 1787.3 | 1785.7 | 1782.5 |
| 7.5° | 1787.3 | 1779.4 | 1781.7 | 1780.1 | 1776.2 |
| 10° | 1780.1 | 1771.4 | 1773.0 | 1769.8 | 1764.3 |
| 12.5° | 1770.6 | 1762.7 | 1761.1 | 1756.3 | 1752.4 |
| 15° | 1757.9 | 1749.2 | 1746.8 | 1740.5 | 1734.1 |
| 17.5° | 1741.3 | 1732.6 | 1728.6 | 1719.1 | 1711.9 |
| 20° | 1723.8 | 1713.5 | 1706.4 | 1692.1 | 1683.4 |
| 22.5° | 1701.6 | 1689.7 | 1680.2 | 1660.4 | 1651.6 |
| 25° | 1674.6 | 1661.2 | 1647.7 | 1626.2 | 1614.3 |
| 27.5° | 1642.9 | 1628.6 | 1612.8 | 1589.0 | 1575.5 |
| 30° | 1605.6 | 1591.3 | 1573.1 | 1546.1 | 1531.8 |
| 32.5° | 1561.2 | 1546.9 | 1527.9 | 1496.9 | 1482.7 |
| 35° | 1512.0 | 1496.1 | 1475.5 | 1442.2 | 1427.9 |
| 37.5° | 1453.3 | 1435.9 | 1416.8 | 1380.3 | 1365.3 |
| 40° | 1381.9 | 1366.8 | 1346.2 | 1309.7 | 1292.3 |
| 42.5° | 1299.4 | 1285.9 | 1262.9 | 1228.0 | 1211.4 |
| 45° | 1209.0 | 1193.9 | 1167.7 | 1137.6 | 1124.9 |
| 47.5° | 1114.6 | 1092.4 | 1067.0 | 1040.8 | 1033.7 |
| 50° | 1020.2 | 991.6 | 955.1 | 941.6 | 944.0 |
| 52.5° | 923.4 | 886.9 | 855.2 | 844.9 | 856.8 |
| 55° | 824.2 | 784.6 | 751.2 | 752.0 | 767.9 |
| 57.5° | 729.8 | 688.6 | 660.8 | 660.8 | 681.4 |
| 60° | 642.6 | 604.5 | 576.7 | 575.9 | 602.1 |
| 62.5° | 561.7 | 522.8 | 502.2 | 502.2 | 526.0 |
| 65° | 479.1 | 450.6 | 437.1 | 432.3 | 452.2 |
| 67.5° | 403.0 | 383.2 | 373.6 | 368.1 | 380.8 |
| 70° | 330.0 | 317.3 | 313.4 | 307.0 | 315.7 |
| 72.5° | 257.8 | 254.6 | 262.6 | 247.5 | 251.5 |
| 75° | 192.0 | 195.1 | 202.3 | 185.6 | 186.4 |
| 77.5° | 138.0 | 144.4 | 146.8 | 138.8 | 138.8 |
| 80° | 94.4 | 102.3 | 99.2 | 95.2 | 93.6 |
| 82.5° | 60.3 | 64.3 | 64.3 | 61.9 | 60.3 |
| 85° | 31.7 | 36.5 | 34.9 | 34.1 | 34.1 |
| 87.5° | 11.9 | 16.7 | 16.7 | 15.9 | 15.1 |
| 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)