

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: METALUX

Report Number: P413240

Luminaire Tested: **24PD-65-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413240
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: METALUX
Catalog Number: 24PD-65-PC3-L930
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

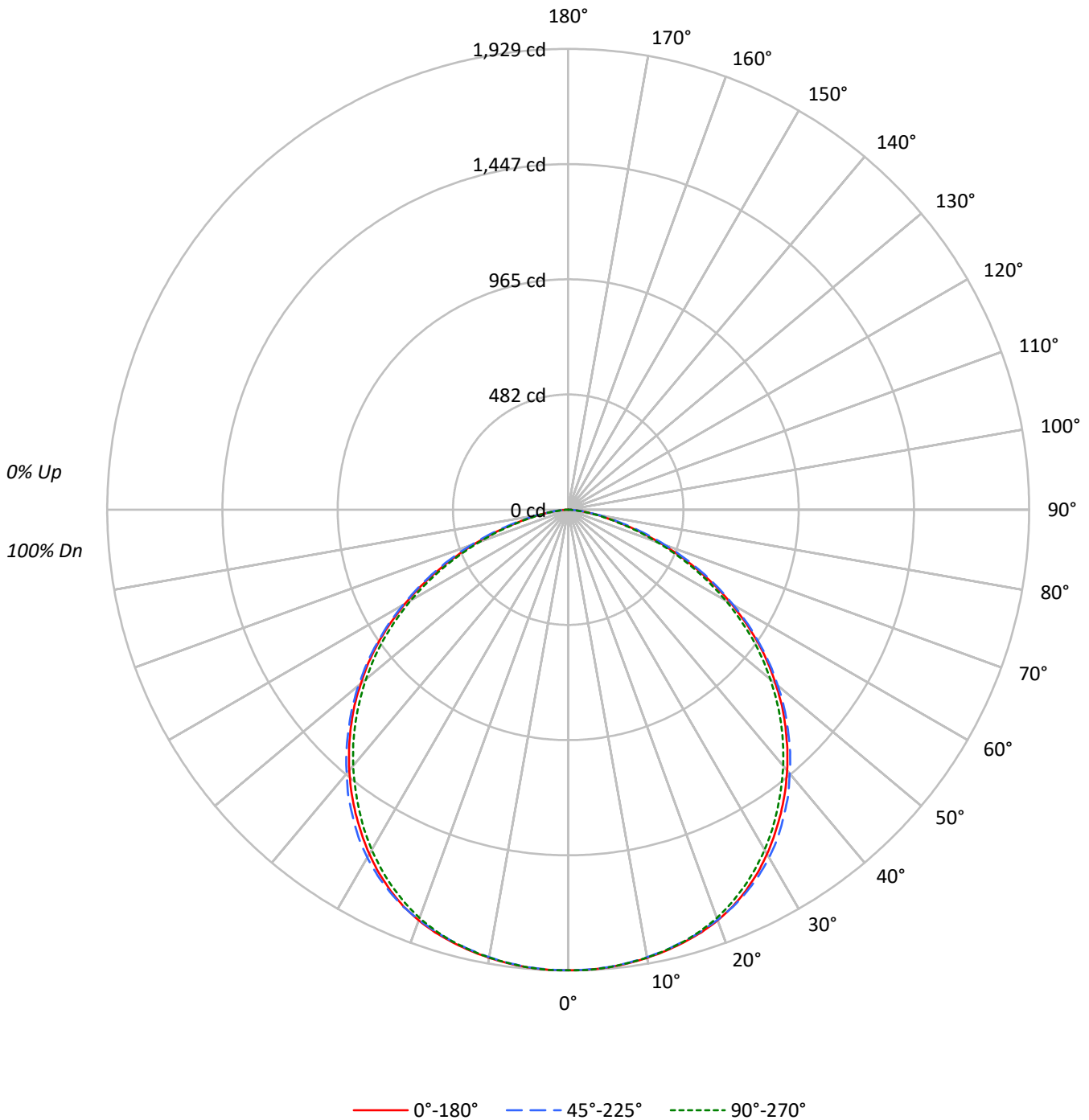
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5269.0 lumens
Efficiency: N/A
Efficacy: 106.0 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): 49.7
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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Luminous Intensity Polar Plot





TEST NUMBER: P413240

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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 | 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° | 2594 | 2594 | 2594 |
| 5° | 2597 | 2596 | 2598 |
| 10° | 2602 | 2599 | 2601 |
| 15° | 2611 | 2606 | 2606 |
| 20° | 2619 | 2616 | 2604 |
| 25° | 2612 | 2622 | 2585 |
| 30° | 2586 | 2613 | 2554 |
| 35° | 2548 | 2580 | 2509 |
| 40° | 2503 | 2533 | 2458 |
| 45° | 2447 | 2473 | 2396 |
| 50° | 2371 | 2398 | 2313 |
| 55° | 2274 | 2293 | 2206 |
| 60° | 2122 | 2147 | 2049 |
| 65° | 1912 | 1960 | 1838 |
| 70° | 1624 | 1695 | 1559 |
| 75° | 1258 | 1349 | 1199 |
| 80° | 935 | 976 | 848 |
| 85° | 577 | 618 | 536 |



TEST NUMBER: P413240

CATALOG NUMBER: 24PD-65-PC3-L930

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 182.9 | 3.5 |
| 10°-20° | 528.6 | 10.0 |
| 20°-30° | 809.6 | 15.4 |
| 30°-40° | 973.9 | 18.5 |
| 40°-50° | 993.1 | 18.8 |
| 50°-60° | 861.0 | 16.3 |
| 60°-70° | 596.9 | 11.3 |
| 70°-80° | 272.6 | 5.2 |
| 80°-90° | 50.3 | 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° | 1521.1 | 28.9 |
| 0°-40° | 2495.0 | 47.4 |
| 0°-60° | 4349.1 | 82.5 |
| 0°-90° | 5269.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5269.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1928 | 1928 | 1928 | 1928 | 1928 | |
| 5° | 1923 | 1923 | 1922 | 1921 | 1923 | 183 |
| 15° | 1874 | 1874 | 1870 | 1869 | 1871 | 530 |
| 25° | 1760 | 1764 | 1766 | 1750 | 1741 | 810 |
| 35° | 1551 | 1568 | 1571 | 1551 | 1528 | 970 |
| 45° | 1286 | 1302 | 1300 | 1282 | 1259 | 991 |
| 55° | 969 | 975 | 978 | 954 | 940 | 864 |
| 65° | 601 | 614 | 616 | 595 | 577 | 594 |
| 75° | 242 | 255 | 260 | 251 | 231 | 265 |
| 85° | 37 | 38 | 40 | 38 | 35 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P413240

CATALOG NUMBER: 24PD-65-PC3-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1927.7 | 1927.7 | 1927.7 | 1927.7 | 1927.7 |
| 2.5° | 1927.7 | 1927.7 | 1926.6 | 1925.5 | 1928.7 |
| 5° | 1922.9 | 1922.9 | 1921.8 | 1920.7 | 1923.4 |
| 7.5° | 1915.4 | 1914.9 | 1913.8 | 1912.7 | 1914.3 |
| 10° | 1904.7 | 1904.2 | 1902.0 | 1901.5 | 1903.6 |
| 12.5° | 1891.4 | 1890.8 | 1887.6 | 1887.6 | 1889.2 |
| 15° | 1874.3 | 1873.7 | 1870.5 | 1868.9 | 1871.1 |
| 17.5° | 1855.0 | 1854.5 | 1850.8 | 1846.5 | 1847.6 |
| 20° | 1829.4 | 1829.4 | 1826.7 | 1820.3 | 1818.7 |
| 22.5° | 1798.4 | 1800.0 | 1800.0 | 1787.8 | 1783.0 |
| 25° | 1759.5 | 1764.3 | 1765.9 | 1750.4 | 1741.3 |
| 27.5° | 1715.1 | 1722.6 | 1726.9 | 1707.1 | 1695.4 |
| 30° | 1664.4 | 1676.7 | 1682.0 | 1660.7 | 1643.6 |
| 32.5° | 1608.9 | 1624.4 | 1630.8 | 1610.0 | 1588.1 |
| 35° | 1551.2 | 1567.8 | 1571.0 | 1550.7 | 1527.7 |
| 37.5° | 1489.8 | 1506.9 | 1511.2 | 1493.0 | 1464.7 |
| 40° | 1425.2 | 1442.3 | 1442.3 | 1427.3 | 1399.6 |
| 42.5° | 1356.8 | 1375.0 | 1374.5 | 1356.3 | 1331.2 |
| 45° | 1285.8 | 1301.8 | 1299.7 | 1282.1 | 1259.1 |
| 47.5° | 1212.7 | 1222.8 | 1225.5 | 1204.7 | 1182.8 |
| 50° | 1132.6 | 1142.7 | 1145.4 | 1121.9 | 1104.8 |
| 52.5° | 1053.5 | 1060.0 | 1063.7 | 1036.5 | 1024.2 |
| 55° | 969.2 | 975.0 | 977.7 | 953.7 | 940.3 |
| 57.5° | 880.0 | 887.5 | 890.7 | 866.7 | 851.7 |
| 60° | 788.7 | 796.7 | 797.8 | 775.3 | 761.5 |
| 62.5° | 695.8 | 706.5 | 708.6 | 686.2 | 669.6 |
| 65° | 600.7 | 613.5 | 615.7 | 594.9 | 577.2 |
| 67.5° | 505.7 | 522.8 | 523.3 | 506.2 | 485.4 |
| 70° | 412.8 | 431.5 | 430.9 | 416.5 | 396.2 |
| 72.5° | 324.1 | 341.2 | 345.0 | 331.6 | 311.8 |
| 75° | 241.9 | 255.2 | 259.5 | 251.0 | 230.7 |
| 77.5° | 171.9 | 184.2 | 188.0 | 180.0 | 165.0 |
| 80° | 120.7 | 121.2 | 126.0 | 119.6 | 109.5 |
| 82.5° | 74.8 | 73.7 | 75.3 | 72.6 | 66.7 |
| 85° | 37.4 | 38.4 | 40.0 | 37.9 | 34.7 |
| 87.5° | 12.8 | 13.3 | 14.4 | 14.4 | 12.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)