

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: P412916

Luminaire Tested: **24PD-75-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-75-PP3-L930
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

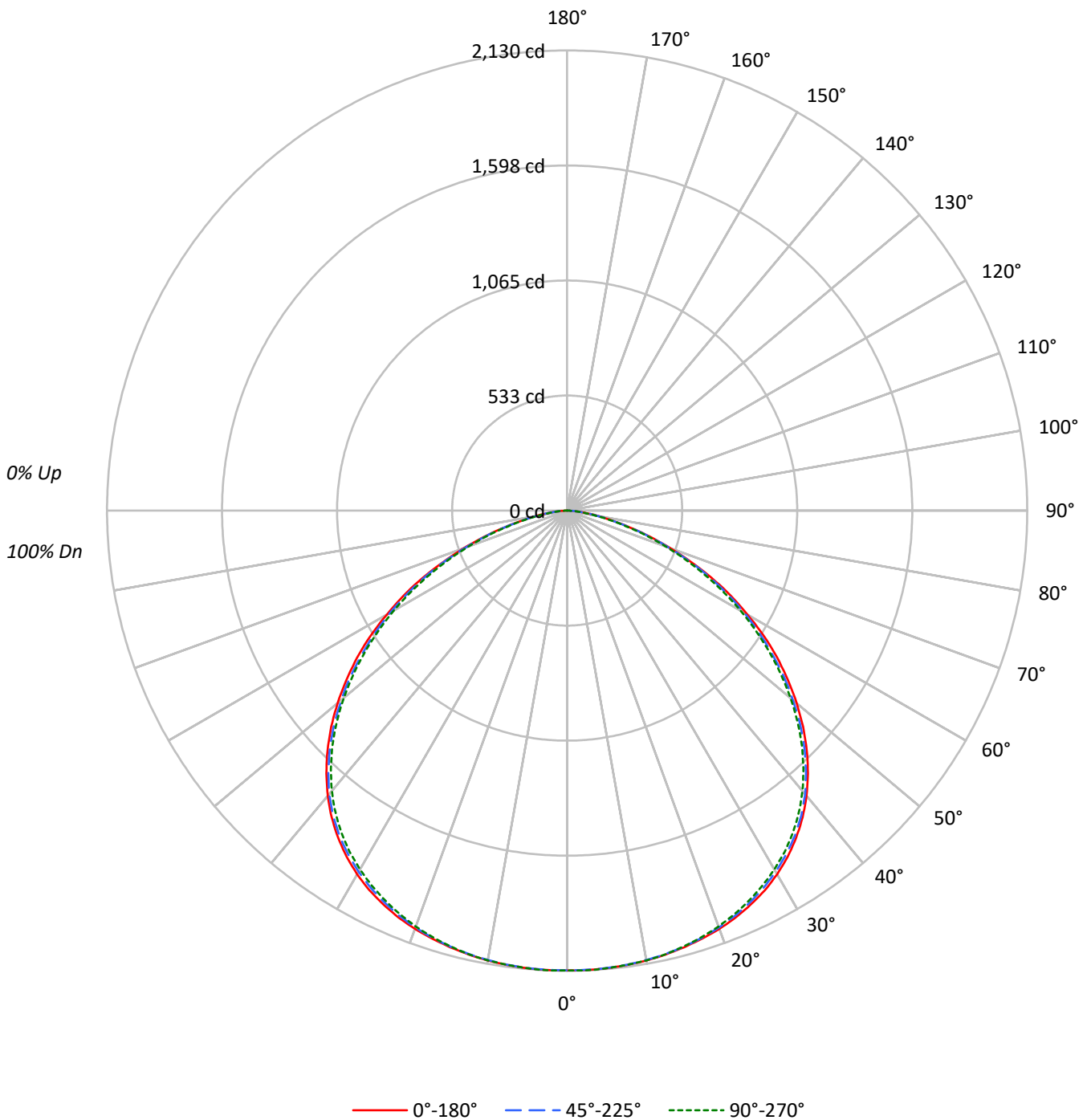
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6193.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 56.3
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: P412916

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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 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | | 83 | 79 | 75 | | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | | 73 | 68 | 64 | | 71 | 66 | 63 | 60 |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | | 65 | 59 | 54 | | 63 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 54 | 48 | 61 | 53 | 48 | | 59 | 52 | 47 | | 57 | 51 | 47 | 45 |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | | 53 | 46 | 41 | | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | | 48 | 42 | 37 | | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | | 44 | 38 | 33 | | 43 | 37 | 32 | 31 |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | | 41 | 34 | 29 | | 40 | 34 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | | 38 | 31 | 27 | | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2864 | 2864 | 2864 |
| 5° | 2871 | 2870 | 2872 |
| 10° | 2889 | 2886 | 2888 |
| 15° | 2915 | 2910 | 2909 |
| 20° | 2950 | 2940 | 2933 |
| 25° | 2987 | 2971 | 2958 |
| 30° | 3020 | 2999 | 2980 |
| 35° | 3036 | 3018 | 2991 |
| 40° | 3028 | 3010 | 2976 |
| 45° | 2985 | 2956 | 2923 |
| 50° | 2903 | 2856 | 2827 |
| 55° | 2783 | 2716 | 2681 |
| 60° | 2593 | 2548 | 2496 |
| 65° | 2351 | 2303 | 2236 |
| 70° | 2006 | 1970 | 1906 |
| 75° | 1567 | 1551 | 1477 |
| 80° | 1156 | 1108 | 1045 |
| 85° | 698 | 698 | 650 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 202.5 | 3.3 |
| 10°-20° | 590.9 | 9.5 |
| 20°-30° | 923.6 | 14.9 |
| 30°-40° | 1147.8 | 18.5 |
| 40°-50° | 1195.9 | 19.3 |
| 50°-60° | 1037.7 | 16.8 |
| 60°-70° | 713.6 | 11.5 |
| 70°-80° | 322.0 | 5.2 |
| 80°-90° | 59.0 | 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° | 1716.9 | 27.7 |
| 0°-40° | 2864.7 | 46.3 |
| 0°-60° | 5098.4 | 82.3 |
| 0°-90° | 6193.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6193.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2128 | 2128 | 2128 | 2128 | 2128 | |
| 5° | 2126 | 2126 | 2125 | 2123 | 2126 | 203 |
| 15° | 2092 | 2092 | 2089 | 2088 | 2088 | 592 |
| 25° | 2012 | 2011 | 2002 | 1993 | 1992 | 928 |
| 35° | 1849 | 1849 | 1838 | 1827 | 1821 | 1155 |
| 45° | 1569 | 1570 | 1553 | 1542 | 1536 | 1208 |
| 55° | 1186 | 1180 | 1158 | 1144 | 1143 | 1057 |
| 65° | 738 | 735 | 724 | 706 | 702 | 729 |
| 75° | 301 | 303 | 298 | 290 | 284 | 328 |
| 85° | 45 | 45 | 45 | 45 | 42 | 61 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412916

CATALOG NUMBER: 24PD-75-PP3-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2128.4 | 2128.4 | 2128.4 | 2128.4 | 2128.4 |
| 2.5° | 2129.0 | 2129.0 | 2127.7 | 2125.9 | 2130.2 |
| 5° | 2125.9 | 2126.5 | 2125.3 | 2123.4 | 2126.5 |
| 7.5° | 2121.5 | 2122.2 | 2120.3 | 2118.5 | 2120.9 |
| 10° | 2114.7 | 2114.1 | 2112.3 | 2111.0 | 2114.1 |
| 12.5° | 2104.8 | 2104.2 | 2102.4 | 2101.1 | 2103.6 |
| 15° | 2092.5 | 2092.5 | 2089.4 | 2087.5 | 2088.1 |
| 17.5° | 2077.6 | 2077.6 | 2073.3 | 2068.9 | 2070.2 |
| 20° | 2060.3 | 2059.7 | 2053.5 | 2049.1 | 2048.5 |
| 22.5° | 2038.6 | 2038.6 | 2030.0 | 2024.4 | 2022.5 |
| 25° | 2012.0 | 2011.4 | 2001.5 | 1993.4 | 1992.2 |
| 27.5° | 1981.7 | 1980.4 | 1968.7 | 1960.6 | 1957.5 |
| 30° | 1943.9 | 1942.7 | 1930.3 | 1921.6 | 1917.9 |
| 32.5° | 1899.4 | 1901.2 | 1887.0 | 1877.1 | 1873.4 |
| 35° | 1848.6 | 1848.6 | 1837.5 | 1827.0 | 1820.8 |
| 37.5° | 1790.4 | 1790.4 | 1779.9 | 1769.4 | 1762.0 |
| 40° | 1724.2 | 1724.8 | 1713.7 | 1700.7 | 1694.5 |
| 42.5° | 1650.0 | 1651.2 | 1636.3 | 1625.8 | 1619.0 |
| 45° | 1568.9 | 1569.5 | 1553.4 | 1541.6 | 1536.1 |
| 47.5° | 1481.0 | 1479.8 | 1461.8 | 1451.9 | 1446.3 |
| 50° | 1386.9 | 1384.5 | 1364.6 | 1355.4 | 1350.4 |
| 52.5° | 1288.5 | 1283.6 | 1266.2 | 1252.6 | 1248.3 |
| 55° | 1186.4 | 1179.6 | 1157.9 | 1144.3 | 1143.1 |
| 57.5° | 1080.0 | 1071.9 | 1054.0 | 1041.0 | 1036.0 |
| 60° | 963.6 | 961.8 | 946.9 | 931.4 | 927.7 |
| 62.5° | 854.7 | 849.1 | 836.1 | 817.6 | 815.7 |
| 65° | 738.3 | 735.2 | 723.5 | 706.2 | 702.4 |
| 67.5° | 618.3 | 621.4 | 611.5 | 596.0 | 591.0 |
| 70° | 510.0 | 511.8 | 500.7 | 486.4 | 484.6 |
| 72.5° | 401.0 | 404.1 | 394.9 | 385.6 | 383.7 |
| 75° | 301.4 | 302.6 | 298.3 | 290.3 | 284.1 |
| 77.5° | 214.1 | 218.5 | 213.5 | 207.9 | 203.0 |
| 80° | 149.2 | 142.3 | 143.0 | 140.5 | 134.9 |
| 82.5° | 89.7 | 86.6 | 86.0 | 83.5 | 81.1 |
| 85° | 45.2 | 44.6 | 45.2 | 44.6 | 42.1 |
| 87.5° | 14.9 | 16.1 | 16.7 | 16.7 | 15.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)