

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: P413259

Luminaire Tested: **24PD-75-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413259
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-75-PC3-L935
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

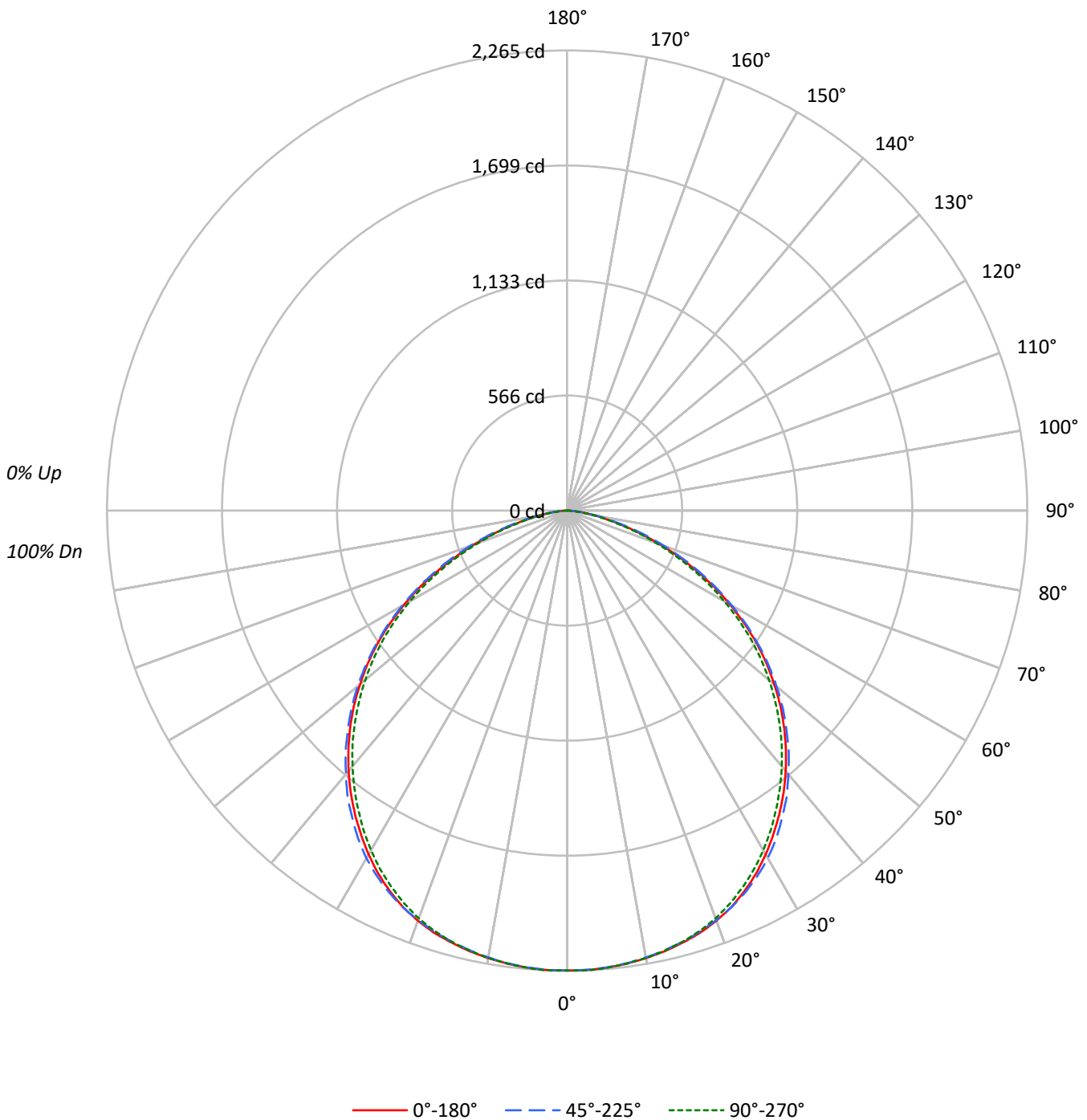
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6188.0 lumens
Efficiency: N/A
Efficacy: 109.9 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): 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





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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° | 3046 | 3046 | 3046 |
| 5° | 3050 | 3048 | 3051 |
| 10° | 3056 | 3052 | 3055 |
| 15° | 3066 | 3060 | 3061 |
| 20° | 3076 | 3072 | 3058 |
| 25° | 3068 | 3079 | 3036 |
| 30° | 3037 | 3069 | 2999 |
| 35° | 2992 | 3030 | 2947 |
| 40° | 2940 | 2975 | 2887 |
| 45° | 2873 | 2904 | 2814 |
| 50° | 2784 | 2816 | 2716 |
| 55° | 2670 | 2693 | 2591 |
| 60° | 2492 | 2521 | 2407 |
| 65° | 2246 | 2302 | 2158 |
| 70° | 1907 | 1991 | 1830 |
| 75° | 1477 | 1585 | 1408 |
| 80° | 1098 | 1147 | 996 |
| 85° | 678 | 726 | 630 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 214.8 | 3.5 |
| 10°-20° | 620.8 | 10.0 |
| 20°-30° | 950.8 | 15.4 |
| 30°-40° | 1143.8 | 18.5 |
| 40°-50° | 1166.3 | 18.8 |
| 50°-60° | 1011.2 | 16.3 |
| 60°-70° | 701.0 | 11.3 |
| 70°-80° | 320.2 | 5.2 |
| 80°-90° | 59.1 | 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° | 1786.4 | 28.9 |
| 0°-40° | 2930.2 | 47.4 |
| 0°-60° | 5107.7 | 82.5 |
| 0°-90° | 6188.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6188.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2264 | 2264 | 2264 | 2264 | 2264 | |
| 5° | 2258 | 2258 | 2257 | 2256 | 2259 | 215 |
| 15° | 2201 | 2200 | 2197 | 2195 | 2197 | 622 |
| 25° | 2066 | 2072 | 2074 | 2056 | 2045 | 951 |
| 35° | 1822 | 1841 | 1845 | 1821 | 1794 | 1139 |
| 45° | 1510 | 1529 | 1526 | 1506 | 1479 | 1164 |
| 55° | 1138 | 1145 | 1148 | 1120 | 1104 | 1014 |
| 65° | 706 | 721 | 723 | 699 | 678 | 697 |
| 75° | 284 | 300 | 305 | 295 | 271 | 311 |
| 85° | 44 | 45 | 47 | 44 | 41 | 59 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2263.9 | 2263.9 | 2263.9 | 2263.9 | 2263.9 |
| 2.5° | 2263.9 | 2263.9 | 2262.6 | 2261.4 | 2265.1 |
| 5° | 2258.2 | 2258.2 | 2257.0 | 2255.7 | 2258.9 |
| 7.5° | 2249.5 | 2248.8 | 2247.6 | 2246.3 | 2248.2 |
| 10° | 2236.9 | 2236.3 | 2233.8 | 2233.2 | 2235.7 |
| 12.5° | 2221.2 | 2220.6 | 2216.9 | 2216.9 | 2218.7 |
| 15° | 2201.2 | 2200.5 | 2196.8 | 2194.9 | 2197.4 |
| 17.5° | 2178.6 | 2178.0 | 2173.6 | 2168.6 | 2169.8 |
| 20° | 2148.5 | 2148.5 | 2145.4 | 2137.8 | 2136.0 |
| 22.5° | 2112.1 | 2114.0 | 2114.0 | 2099.6 | 2093.9 |
| 25° | 2066.3 | 2072.0 | 2073.9 | 2055.7 | 2045.0 |
| 27.5° | 2014.3 | 2023.1 | 2028.1 | 2004.9 | 1991.1 |
| 30° | 1954.7 | 1969.1 | 1975.4 | 1950.3 | 1930.3 |
| 32.5° | 1889.5 | 1907.7 | 1915.2 | 1890.8 | 1865.0 |
| 35° | 1821.8 | 1841.2 | 1845.0 | 1821.1 | 1794.2 |
| 37.5° | 1749.7 | 1769.7 | 1774.7 | 1753.4 | 1720.2 |
| 40° | 1673.8 | 1693.8 | 1693.8 | 1676.3 | 1643.7 |
| 42.5° | 1593.5 | 1614.8 | 1614.2 | 1592.9 | 1563.4 |
| 45° | 1510.1 | 1528.9 | 1526.4 | 1505.7 | 1478.7 |
| 47.5° | 1424.2 | 1436.1 | 1439.2 | 1414.8 | 1389.1 |
| 50° | 1330.1 | 1342.0 | 1345.2 | 1317.6 | 1297.5 |
| 52.5° | 1237.3 | 1244.8 | 1249.2 | 1217.2 | 1202.8 |
| 55° | 1138.2 | 1145.1 | 1148.2 | 1120.0 | 1104.4 |
| 57.5° | 1033.5 | 1042.3 | 1046.0 | 1017.8 | 1000.2 |
| 60° | 926.2 | 935.7 | 936.9 | 910.6 | 894.3 |
| 62.5° | 817.1 | 829.7 | 832.2 | 805.8 | 786.4 |
| 65° | 705.5 | 720.6 | 723.1 | 698.6 | 677.9 |
| 67.5° | 593.9 | 613.9 | 614.6 | 594.5 | 570.0 |
| 70° | 484.8 | 506.7 | 506.1 | 489.1 | 465.3 |
| 72.5° | 380.7 | 400.7 | 405.1 | 389.4 | 366.2 |
| 75° | 284.1 | 299.8 | 304.8 | 294.7 | 270.9 |
| 77.5° | 201.9 | 216.4 | 220.7 | 211.3 | 193.8 |
| 80° | 141.7 | 142.4 | 148.0 | 140.5 | 128.6 |
| 82.5° | 87.8 | 86.5 | 88.4 | 85.3 | 78.4 |
| 85° | 43.9 | 45.2 | 47.0 | 44.5 | 40.8 |
| 87.5° | 15.1 | 15.7 | 16.9 | 16.9 | 15.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)