

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: P413121

Luminaire Tested: **22PD-65-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-65-PC3-L850
Description: 6500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

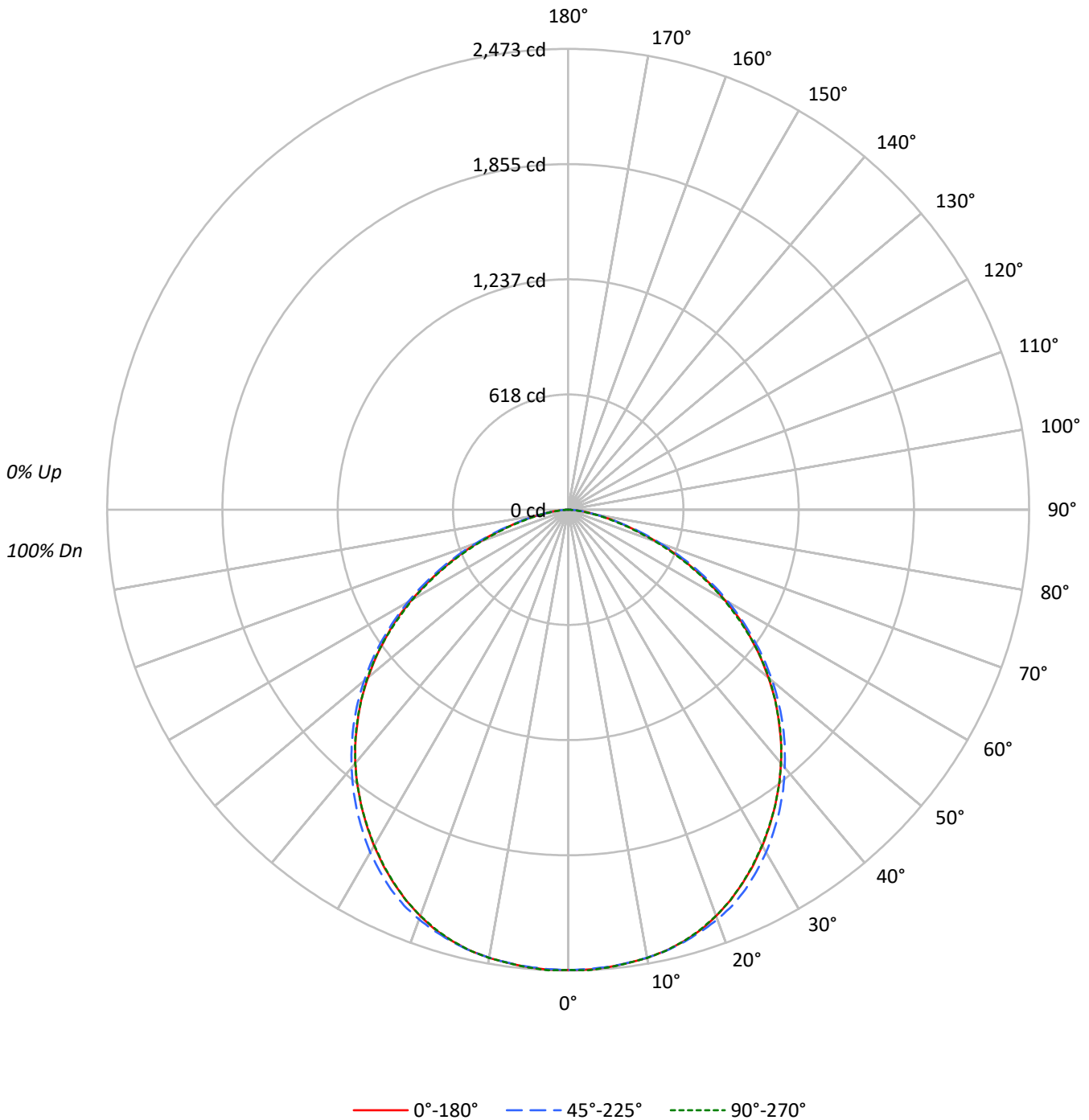
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6636.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.9
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 | 110 | 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 | 76 | | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 70 | 65 | | 74 | 69 | 64 | | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | | 66 | 60 | 55 | | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 49 | | 59 | 53 | 48 | | 58 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | | 54 | 47 | 42 | | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | | 49 | 42 | 37 | | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | | 45 | 38 | 34 | | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | | 41 | 35 | 30 | | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | | 38 | 32 | 28 | | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6647 | 6647 | 6647 |
| 5° | 6656 | 6651 | 6660 |
| 10° | 6672 | 6670 | 6672 |
| 15° | 6680 | 6689 | 6678 |
| 20° | 6646 | 6700 | 6642 |
| 25° | 6569 | 6676 | 6565 |
| 30° | 6472 | 6599 | 6462 |
| 35° | 6360 | 6486 | 6360 |
| 40° | 6240 | 6350 | 6240 |
| 45° | 6076 | 6195 | 6085 |
| 50° | 5868 | 5983 | 5891 |
| 55° | 5596 | 5706 | 5596 |
| 60° | 5218 | 5349 | 5184 |
| 65° | 4683 | 4848 | 4623 |
| 70° | 4006 | 4148 | 3888 |
| 75° | 3177 | 3268 | 3014 |
| 80° | 2276 | 2362 | 2168 |
| 85° | 1504 | 1553 | 1408 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 234.4 | 3.5 |
| 10°-20° | 677.0 | 10.2 |
| 20°-30° | 1027.1 | 15.5 |
| 30°-40° | 1226.6 | 18.5 |
| 40°-50° | 1247.4 | 18.8 |
| 50°-60° | 1079.0 | 16.3 |
| 60°-70° | 742.5 | 11.2 |
| 70°-80° | 337.0 | 5.1 |
| 80°-90° | 65.2 | 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° | 1938.4 | 29.2 |
| 0°-40° | 3165.0 | 47.7 |
| 0°-60° | 5491.4 | 82.8 |
| 0°-90° | 6636.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6636.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2470 | 2470 | 2470 | 2470 | 2470 | |
| 5° | 2464 | 2462 | 2462 | 2462 | 2466 | 234 |
| 15° | 2398 | 2400 | 2401 | 2397 | 2397 | 676 |
| 25° | 2212 | 2232 | 2249 | 2228 | 2211 | 1019 |
| 35° | 1936 | 1970 | 1974 | 1967 | 1936 | 1211 |
| 45° | 1596 | 1626 | 1628 | 1626 | 1599 | 1231 |
| 55° | 1193 | 1213 | 1216 | 1214 | 1193 | 1066 |
| 65° | 735 | 756 | 761 | 755 | 726 | 730 |
| 75° | 306 | 317 | 314 | 311 | 290 | 329 |
| 85° | 49 | 52 | 50 | 49 | 46 | 64 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2470.2 | 2470.2 | 2470.2 | 2470.2 | 2470.2 |
| 2.5° | 2470.2 | 2467.0 | 2467.8 | 2468.6 | 2473.3 |
| 5° | 2463.9 | 2461.5 | 2462.3 | 2462.3 | 2465.5 |
| 7.5° | 2453.7 | 2452.9 | 2452.9 | 2452.1 | 2454.5 |
| 10° | 2441.9 | 2440.3 | 2441.1 | 2440.3 | 2441.9 |
| 12.5° | 2423.8 | 2423.8 | 2424.6 | 2422.2 | 2423.8 |
| 15° | 2397.9 | 2399.5 | 2401.0 | 2397.1 | 2397.1 |
| 17.5° | 2364.9 | 2368.8 | 2372.8 | 2365.7 | 2361.8 |
| 20° | 2320.9 | 2330.3 | 2339.8 | 2328.8 | 2319.3 |
| 22.5° | 2269.8 | 2285.5 | 2299.7 | 2282.4 | 2269.8 |
| 25° | 2212.5 | 2232.1 | 2248.6 | 2228.2 | 2210.9 |
| 27.5° | 2150.4 | 2172.4 | 2188.1 | 2170.8 | 2147.3 |
| 30° | 2082.8 | 2109.5 | 2123.7 | 2107.2 | 2079.7 |
| 32.5° | 2010.6 | 2042.0 | 2050.6 | 2040.4 | 2009.0 |
| 35° | 1935.9 | 1970.5 | 1974.4 | 1967.3 | 1935.9 |
| 37.5° | 1858.1 | 1891.1 | 1894.3 | 1890.3 | 1858.1 |
| 40° | 1776.4 | 1807.1 | 1807.8 | 1807.8 | 1776.4 |
| 42.5° | 1689.2 | 1719.1 | 1719.1 | 1718.3 | 1691.6 |
| 45° | 1596.5 | 1625.6 | 1627.9 | 1626.4 | 1598.9 |
| 47.5° | 1504.6 | 1526.6 | 1530.5 | 1527.4 | 1503.0 |
| 50° | 1401.7 | 1424.4 | 1429.1 | 1426.0 | 1407.2 |
| 52.5° | 1299.5 | 1320.7 | 1325.4 | 1323.1 | 1301.9 |
| 55° | 1192.7 | 1213.1 | 1216.2 | 1213.9 | 1192.7 |
| 57.5° | 1089.7 | 1103.1 | 1106.2 | 1101.5 | 1074.8 |
| 60° | 969.5 | 988.4 | 993.9 | 988.4 | 963.2 |
| 62.5° | 853.2 | 873.7 | 878.4 | 870.5 | 843.8 |
| 65° | 735.4 | 755.8 | 761.3 | 755.0 | 726.0 |
| 67.5° | 623.8 | 638.8 | 643.5 | 636.4 | 609.7 |
| 70° | 509.1 | 528.0 | 527.2 | 517.8 | 494.2 |
| 72.5° | 396.0 | 421.9 | 417.2 | 411.7 | 385.8 |
| 75° | 305.6 | 317.4 | 314.3 | 311.1 | 289.9 |
| 77.5° | 218.4 | 232.6 | 224.7 | 225.5 | 207.4 |
| 80° | 146.9 | 160.3 | 152.4 | 149.3 | 139.9 |
| 82.5° | 93.5 | 99.0 | 97.4 | 95.9 | 87.2 |
| 85° | 48.7 | 51.9 | 50.3 | 48.7 | 45.6 |
| 87.5° | 18.9 | 20.4 | 18.9 | 18.9 | 17.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)