

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: P413140

Luminaire Tested: **22PD-75-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413140
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-75-PC3-L927
Description: 7500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

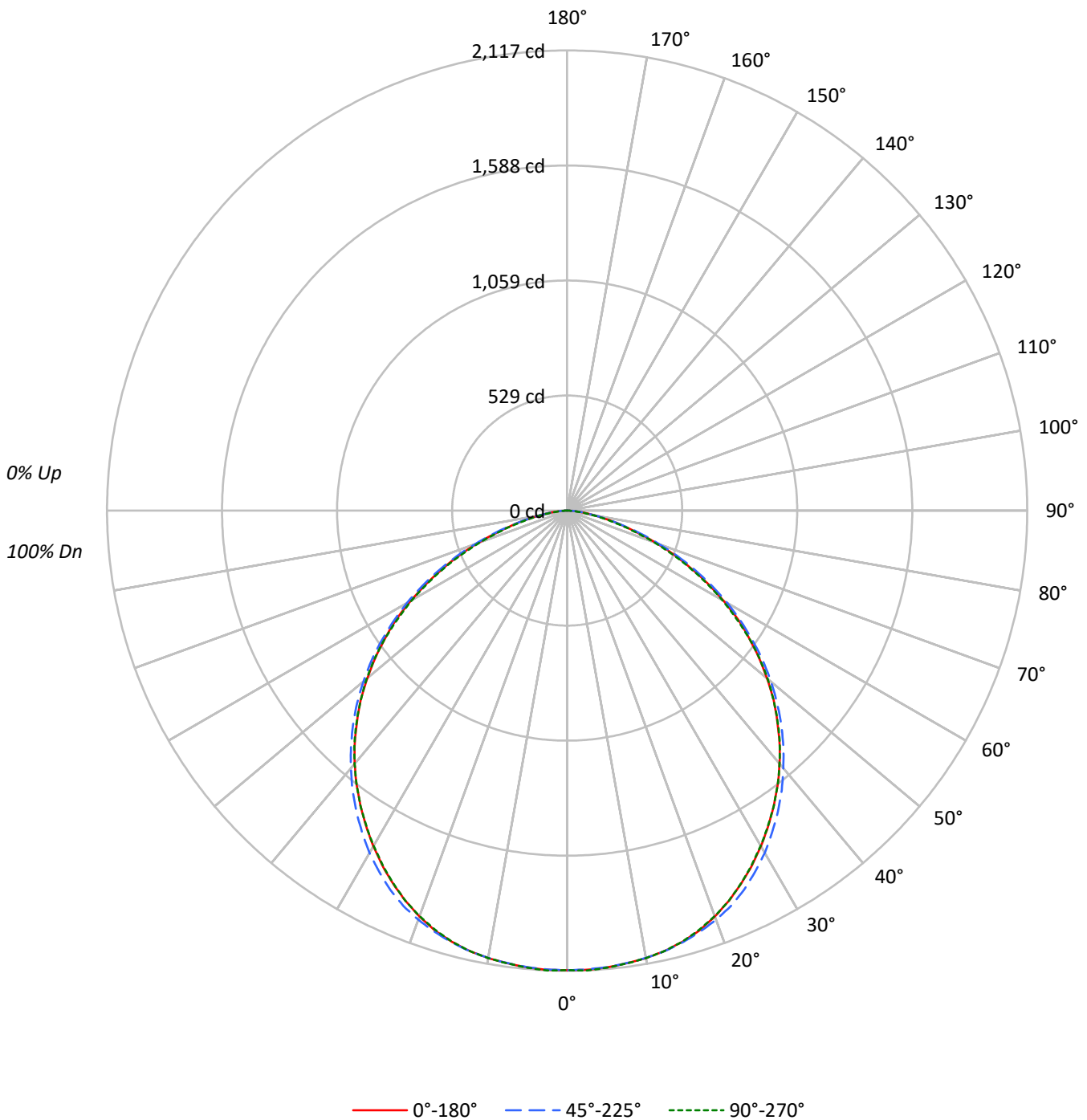
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5681.0 lumens
Efficiency: N/A
Efficacy: 84.2 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): 67.5
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

TEST NUMBER: P413140
CATALOG NUMBER: 22PD-75-PC3-L927

Luminous Intensity Polar Plot





TEST NUMBER: P413140

CATALOG NUMBER: 22PD-75-PC3-L927

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° | 5691 | 5691 | 5691 |
| 5° | 5698 | 5694 | 5702 |
| 10° | 5712 | 5710 | 5712 |
| 15° | 5719 | 5726 | 5717 |
| 20° | 5690 | 5736 | 5686 |
| 25° | 5624 | 5716 | 5620 |
| 30° | 5541 | 5649 | 5532 |
| 35° | 5444 | 5553 | 5444 |
| 40° | 5342 | 5437 | 5342 |
| 45° | 5201 | 5304 | 5209 |
| 50° | 5023 | 5122 | 5043 |
| 55° | 4790 | 4885 | 4790 |
| 60° | 4467 | 4580 | 4438 |
| 65° | 4009 | 4150 | 3957 |
| 70° | 3430 | 3551 | 3329 |
| 75° | 2720 | 2797 | 2581 |
| 80° | 1949 | 2022 | 1855 |
| 85° | 1288 | 1328 | 1204 |



TEST NUMBER: P413140

CATALOG NUMBER: 22PD-75-PC3-L927

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 200.6 | 3.5 |
| 10°-20° | 579.5 | 10.2 |
| 20°-30° | 879.3 | 15.5 |
| 30°-40° | 1050.1 | 18.5 |
| 40°-50° | 1067.9 | 18.8 |
| 50°-60° | 923.7 | 16.3 |
| 60°-70° | 635.6 | 11.2 |
| 70°-80° | 288.5 | 5.1 |
| 80°-90° | 55.8 | 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° | 1659.4 | 29.2 |
| 0°-40° | 2709.5 | 47.7 |
| 0°-60° | 4701.1 | 82.8 |
| 0°-90° | 5681.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5681.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2115 | 2115 | 2115 | 2115 | 2115 | |
| 5° | 2109 | 2107 | 2108 | 2108 | 2111 | 201 |
| 15° | 2053 | 2054 | 2056 | 2052 | 2052 | 579 |
| 25° | 1894 | 1911 | 1925 | 1908 | 1893 | 872 |
| 35° | 1657 | 1687 | 1690 | 1684 | 1657 | 1037 |
| 45° | 1367 | 1392 | 1394 | 1392 | 1369 | 1054 |
| 55° | 1021 | 1038 | 1041 | 1039 | 1021 | 912 |
| 65° | 630 | 647 | 652 | 646 | 622 | 625 |
| 75° | 262 | 272 | 269 | 266 | 248 | 281 |
| 85° | 42 | 44 | 43 | 42 | 39 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P413140

CATALOG NUMBER: 22PD-75-PC3-L927

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2114.7 | 2114.7 | 2114.7 | 2114.7 | 2114.7 |
| 2.5° | 2114.7 | 2112.0 | 2112.7 | 2113.3 | 2117.4 |
| 5° | 2109.3 | 2107.3 | 2108.0 | 2108.0 | 2110.7 |
| 7.5° | 2100.6 | 2099.9 | 2099.9 | 2099.2 | 2101.2 |
| 10° | 2090.5 | 2089.1 | 2089.8 | 2089.1 | 2090.5 |
| 12.5° | 2075.0 | 2075.0 | 2075.7 | 2073.7 | 2075.0 |
| 15° | 2052.8 | 2054.2 | 2055.5 | 2052.1 | 2052.1 |
| 17.5° | 2024.6 | 2027.9 | 2031.3 | 2025.2 | 2021.9 |
| 20° | 1986.9 | 1995.0 | 2003.0 | 1993.6 | 1985.5 |
| 22.5° | 1943.2 | 1956.6 | 1968.7 | 1953.9 | 1943.2 |
| 25° | 1894.1 | 1910.9 | 1925.0 | 1907.5 | 1892.7 |
| 27.5° | 1840.9 | 1859.8 | 1873.2 | 1858.4 | 1838.2 |
| 30° | 1783.1 | 1806.0 | 1818.1 | 1803.9 | 1780.4 |
| 32.5° | 1721.2 | 1748.1 | 1755.5 | 1746.8 | 1719.9 |
| 35° | 1657.3 | 1686.9 | 1690.3 | 1684.2 | 1657.3 |
| 37.5° | 1590.7 | 1619.0 | 1621.7 | 1618.3 | 1590.7 |
| 40° | 1520.8 | 1547.0 | 1547.7 | 1547.7 | 1520.8 |
| 42.5° | 1446.1 | 1471.7 | 1471.7 | 1471.0 | 1448.1 |
| 45° | 1366.7 | 1391.6 | 1393.6 | 1392.3 | 1368.8 |
| 47.5° | 1288.0 | 1306.9 | 1310.2 | 1307.6 | 1286.7 |
| 50° | 1199.9 | 1219.4 | 1223.5 | 1220.8 | 1204.6 |
| 52.5° | 1112.5 | 1130.7 | 1134.7 | 1132.7 | 1114.5 |
| 55° | 1021.0 | 1038.5 | 1041.2 | 1039.2 | 1021.0 |
| 57.5° | 932.9 | 944.3 | 947.0 | 943.0 | 920.1 |
| 60° | 830.0 | 846.1 | 850.9 | 846.1 | 824.6 |
| 62.5° | 730.5 | 747.9 | 752.0 | 745.3 | 722.4 |
| 65° | 629.6 | 647.1 | 651.8 | 646.4 | 621.5 |
| 67.5° | 534.1 | 546.8 | 550.9 | 544.8 | 521.9 |
| 70° | 435.9 | 452.0 | 451.3 | 443.3 | 423.1 |
| 72.5° | 339.0 | 361.2 | 357.2 | 352.4 | 330.3 |
| 75° | 261.6 | 271.7 | 269.0 | 266.4 | 248.2 |
| 77.5° | 187.0 | 199.1 | 192.4 | 193.0 | 177.6 |
| 80° | 125.8 | 137.2 | 130.5 | 127.8 | 119.7 |
| 82.5° | 80.0 | 84.7 | 83.4 | 82.1 | 74.7 |
| 85° | 41.7 | 44.4 | 43.0 | 41.7 | 39.0 |
| 87.5° | 16.1 | 17.5 | 16.1 | 16.1 | 14.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)