

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: P#

Luminaire Tested: **4ILED-LD5-5-W-CLWG-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-5-W-CLWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

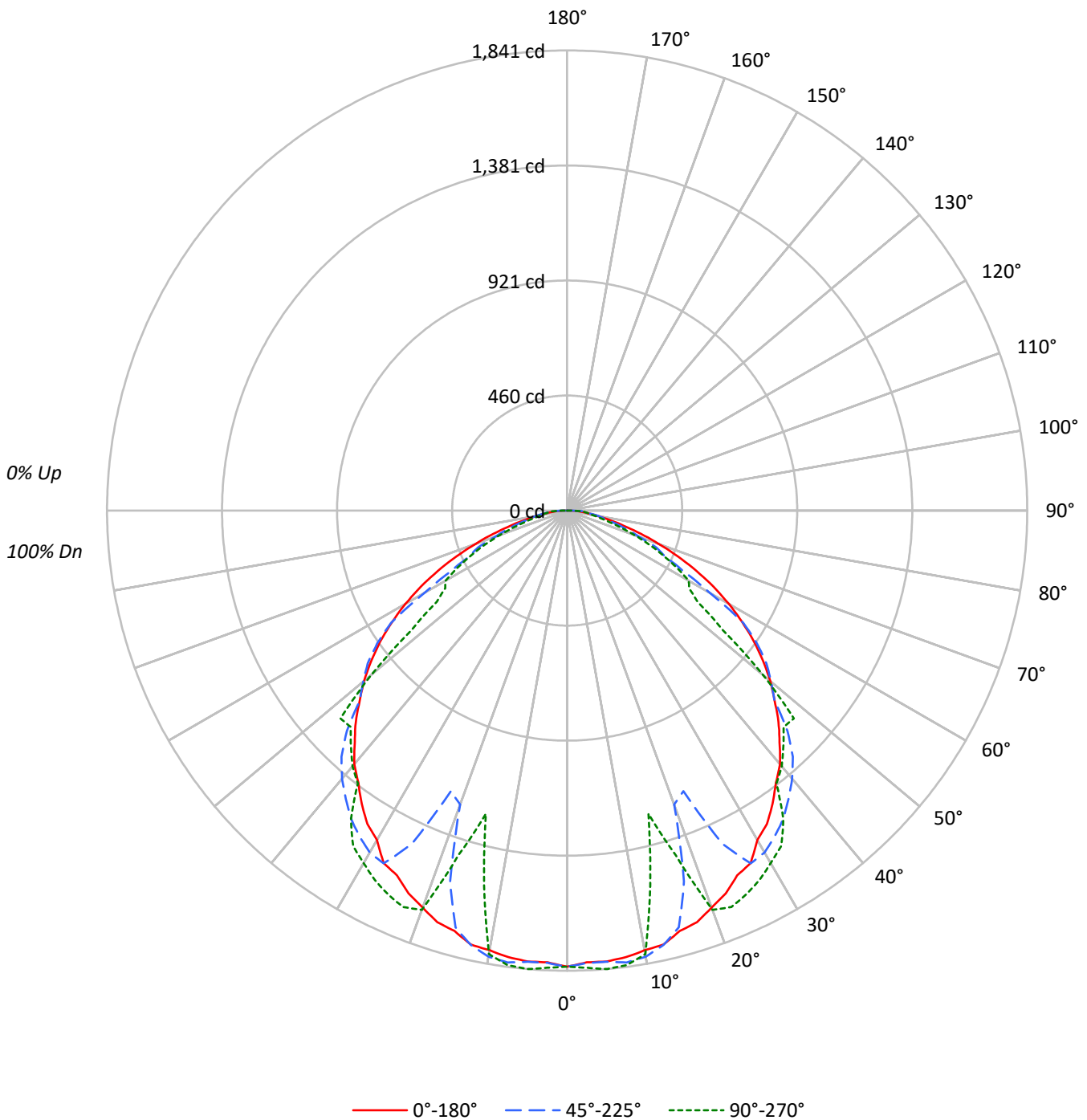
Lumens per Lamp: N/A
Luminaire Lumens: 4725.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
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: P#
CATALOG NUMBER: 4ILED-LD5-5-W-CLWG-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-CLWG-UNV-L850-CD1-U

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 | 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 | 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 | 71 | 65 | 74 | 69 | 64 | 72 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 62 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 42 | 38 | 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 | 27 | 38 | 32 | 27 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5357 | 5357 | 5357 |
| 5° | 5323 | 5295 | 5374 |
| 10° | 5302 | 5312 | 5268 |
| 15° | 5257 | 5114 | 3709 |
| 20° | 5233 | 3779 | 5108 |
| 25° | 5155 | 4564 | 5224 |
| 30° | 5084 | 5076 | 5194 |
| 35° | 5045 | 5063 | 5023 |
| 40° | 4973 | 4972 | 4689 |
| 45° | 4844 | 4729 | 4583 |
| 50° | 4705 | 4368 | 4142 |
| 55° | 4508 | 4180 | 2821 |
| 60° | 4205 | 3337 | 2775 |
| 65° | 3764 | 2478 | 2391 |
| 70° | 3133 | 2105 | 1898 |
| 75° | 2429 | 1678 | 1397 |
| 80° | 1811 | 1418 | 1065 |
| 85° | 1553 | 1188 | 1069 |



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-CLWG-UNV-L850-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 173.2 | 3.7 |
| 10°-20° | 459.2 | 9.7 |
| 20°-30° | 732.1 | 15.5 |
| 30°-40° | 878.7 | 18.6 |
| 40°-50° | 934.6 | 19.8 |
| 50°-60° | 764.6 | 16.2 |
| 60°-70° | 484.8 | 10.3 |
| 70°-80° | 223.9 | 4.7 |
| 80°-90° | 73.9 | 1.6 |
| 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° | 1364.6 | 28.9 |
| 0°-40° | 2243.3 | 47.5 |
| 0°-60° | 3942.4 | 83.4 |
| 0°-90° | 4725.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4725.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1825 | 1825 | 1825 | 1825 | 1825 | |
| 5° | 1810 | 1811 | 1812 | 1826 | 1841 | 172 |
| 15° | 1741 | 1768 | 1726 | 1360 | 1256 | 494 |
| 25° | 1610 | 1615 | 1471 | 1680 | 1695 | 746 |
| 35° | 1432 | 1074 | 1507 | 1535 | 1509 | 895 |
| 45° | 1196 | 1201 | 1247 | 1216 | 1224 | 921 |
| 55° | 912 | 960 | 927 | 719 | 637 | 812 |
| 65° | 571 | 581 | 429 | 432 | 425 | 563 |
| 75° | 234 | 222 | 200 | 185 | 173 | 256 |
| 85° | 59 | 64 | 74 | 74 | 71 | 64 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-5-W-CLWG-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1824.7 | 1824.7 | 1824.7 | 1824.7 | 1824.7 |
| 2.5° | 1808.9 | 1811.9 | 1811.2 | 1824.7 | 1830.7 |
| 5° | 1810.4 | 1811.2 | 1811.9 | 1826.2 | 1841.2 |
| 7.5° | 1802.2 | 1817.9 | 1823.2 | 1817.9 | 1833.7 |
| 10° | 1786.4 | 1800.7 | 1811.9 | 1796.2 | 1801.4 |
| 12.5° | 1778.1 | 1799.2 | 1780.4 | 1703.1 | 1535.1 |
| 15° | 1741.4 | 1768.4 | 1725.6 | 1359.5 | 1256.0 |
| 17.5° | 1726.4 | 1744.4 | 1555.3 | 1250.0 | 1445.8 |
| 20° | 1690.4 | 1715.1 | 1251.5 | 1607.1 | 1700.1 |
| 22.5° | 1657.4 | 1675.4 | 1214.7 | 1690.4 | 1716.6 |
| 25° | 1610.1 | 1614.6 | 1471.3 | 1679.9 | 1694.9 |
| 27.5° | 1589.8 | 1522.3 | 1591.3 | 1658.1 | 1666.4 |
| 30° | 1521.6 | 1382.8 | 1579.3 | 1628.1 | 1628.8 |
| 32.5° | 1487.0 | 1204.2 | 1545.6 | 1584.6 | 1592.8 |
| 35° | 1432.3 | 1073.6 | 1506.6 | 1535.1 | 1508.8 |
| 37.5° | 1372.3 | 1054.9 | 1454.8 | 1439.8 | 1376.0 |
| 40° | 1325.0 | 1150.9 | 1400.8 | 1307.7 | 1335.5 |
| 42.5° | 1258.2 | 1209.4 | 1336.2 | 1275.5 | 1280.7 |
| 45° | 1195.9 | 1201.2 | 1247.0 | 1216.2 | 1224.4 |
| 47.5° | 1125.4 | 1159.9 | 1124.7 | 1165.2 | 1230.4 |
| 50° | 1060.9 | 1097.7 | 1064.6 | 1131.4 | 1024.9 |
| 52.5° | 987.4 | 1033.1 | 1005.4 | 910.1 | 786.3 |
| 55° | 912.3 | 960.4 | 927.3 | 718.8 | 637.0 |
| 57.5° | 830.6 | 870.3 | 835.8 | 589.0 | 578.5 |
| 60° | 747.3 | 778.8 | 661.7 | 536.4 | 562.0 |
| 62.5° | 659.5 | 679.0 | 522.2 | 494.4 | 492.9 |
| 65° | 571.0 | 580.7 | 429.2 | 432.2 | 424.7 |
| 67.5° | 478.7 | 483.2 | 386.4 | 366.1 | 354.9 |
| 70° | 390.1 | 387.1 | 309.1 | 297.9 | 287.4 |
| 72.5° | 309.1 | 294.9 | 251.3 | 236.3 | 223.6 |
| 75° | 234.1 | 222.1 | 200.3 | 185.3 | 173.3 |
| 77.5° | 174.1 | 167.3 | 156.8 | 158.3 | 132.8 |
| 80° | 122.3 | 123.0 | 129.0 | 109.5 | 102.0 |
| 82.5° | 84.8 | 89.3 | 92.3 | 90.8 | 88.5 |
| 85° | 59.3 | 64.5 | 73.5 | 73.5 | 71.3 |
| 87.5° | 30.0 | 44.3 | 59.3 | 63.0 | 61.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)