

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: P568289

Luminaire Tested: **14CGTX-70HE-L835**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-22)
Test Lab: INNOVATION CENTER
Issue Date: 9/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CGTX-70HE-L835
Description: 1X4 7000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3500K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

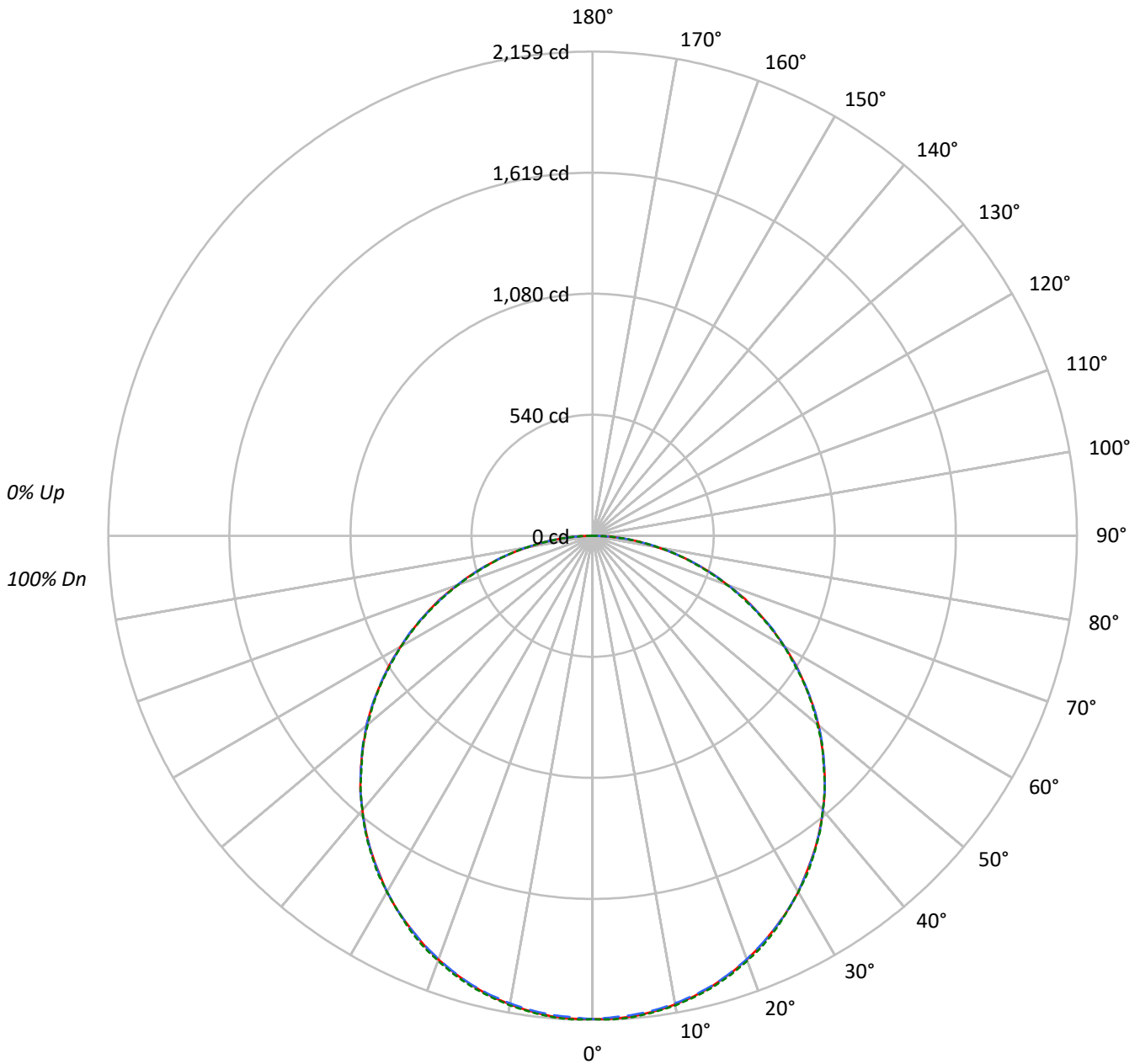
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6372.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.5
Input Voltage (V): NR
Input Current (A_{in}): 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: P568289
CATALOG NUMBER: 14CGTX-70HE-L835

Luminous Intensity Polar Plot





TEST NUMBER: P568289

CATALOG NUMBER: 14CGTX-70HE-L835

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 57 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 69 | 60 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 52 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5800 | 5800 | 5800 |
| 5° | 5807 | 5790 | 5816 |
| 10° | 5798 | 5785 | 5809 |
| 15° | 5782 | 5778 | 5800 |
| 20° | 5759 | 5754 | 5775 |
| 25° | 5724 | 5724 | 5743 |
| 30° | 5698 | 5695 | 5698 |
| 35° | 5654 | 5657 | 5664 |
| 40° | 5611 | 5611 | 5611 |
| 45° | 5560 | 5557 | 5541 |
| 50° | 5508 | 5508 | 5474 |
| 55° | 5412 | 5427 | 5404 |
| 60° | 5315 | 5315 | 5302 |
| 65° | 5200 | 5195 | 5165 |
| 70° | 5031 | 5056 | 4999 |
| 75° | 4872 | 4880 | 4814 |
| 80° | 4528 | 4603 | 4603 |
| 85° | 4264 | 4215 | 4140 |



TEST NUMBER: P568289

CATALOG NUMBER: 14CGTX-70HE-L835

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 204.3 | 3.2 |
| 10°-20° | 586.2 | 9.2 |
| 20°-30° | 890.1 | 14.0 |
| 30°-40° | 1077.8 | 16.9 |
| 40°-50° | 1127.5 | 17.7 |
| 50°-60° | 1032.6 | 16.2 |
| 60°-70° | 807.6 | 12.7 |
| 70°-80° | 493.9 | 7.8 |
| 80°-90° | 152.1 | 2.4 |
| 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° | 1680.6 | 26.4 |
| 0°-40° | 2758.4 | 43.3 |
| 0°-60° | 4918.4 | 77.2 |
| 0°-90° | 6372.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6372.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2155 | 2155 | 2155 | 2155 | 2155 | |
| 5° | 2150 | 2150 | 2143 | 2151 | 2153 | 204 |
| 15° | 2076 | 2077 | 2074 | 2080 | 2082 | 586 |
| 25° | 1928 | 1932 | 1928 | 1933 | 1934 | 889 |
| 35° | 1721 | 1722 | 1722 | 1724 | 1724 | 1077 |
| 45° | 1461 | 1463 | 1460 | 1460 | 1456 | 1127 |
| 55° | 1154 | 1162 | 1157 | 1154 | 1152 | 1033 |
| 65° | 817 | 821 | 816 | 813 | 811 | 808 |
| 75° | 469 | 466 | 469 | 466 | 463 | 494 |
| 85° | 138 | 133 | 136 | 133 | 134 | 153 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P568289

CATALOG NUMBER: 14CGTX-70HE-L835

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2155.4 | 2155.4 | 2155.4 | 2155.4 | 2155.4 |
| 2.5° | 2155.4 | 2155.4 | 2149.0 | 2157.0 | 2158.6 |
| 5° | 2149.8 | 2149.8 | 2143.4 | 2150.6 | 2153.0 |
| 7.5° | 2137.8 | 2138.6 | 2133.0 | 2140.2 | 2141.0 |
| 10° | 2121.9 | 2122.6 | 2117.1 | 2125.0 | 2125.8 |
| 12.5° | 2101.9 | 2102.7 | 2097.9 | 2105.1 | 2105.9 |
| 15° | 2075.5 | 2077.1 | 2074.0 | 2079.5 | 2081.9 |
| 17.5° | 2045.2 | 2047.6 | 2043.6 | 2050.8 | 2051.6 |
| 20° | 2010.9 | 2011.7 | 2009.3 | 2014.9 | 2016.5 |
| 22.5° | 1971.8 | 1974.2 | 1970.2 | 1977.4 | 1979.8 |
| 25° | 1927.9 | 1931.9 | 1927.9 | 1932.7 | 1934.3 |
| 27.5° | 1883.2 | 1886.4 | 1883.2 | 1885.6 | 1884.0 |
| 30° | 1833.7 | 1834.5 | 1832.9 | 1833.7 | 1833.7 |
| 32.5° | 1776.2 | 1779.4 | 1777.8 | 1781.8 | 1783.4 |
| 35° | 1721.1 | 1721.9 | 1721.9 | 1724.3 | 1724.3 |
| 37.5° | 1661.2 | 1661.2 | 1662.0 | 1664.4 | 1664.4 |
| 40° | 1597.4 | 1599.0 | 1597.4 | 1599.0 | 1597.4 |
| 42.5° | 1532.7 | 1531.9 | 1532.7 | 1533.5 | 1531.1 |
| 45° | 1460.9 | 1463.3 | 1460.1 | 1460.1 | 1456.1 |
| 47.5° | 1386.6 | 1391.4 | 1390.6 | 1388.2 | 1389.0 |
| 50° | 1315.6 | 1317.2 | 1315.6 | 1313.2 | 1307.6 |
| 52.5° | 1236.5 | 1241.3 | 1237.3 | 1238.1 | 1231.8 |
| 55° | 1153.5 | 1161.5 | 1156.7 | 1153.5 | 1151.9 |
| 57.5° | 1074.5 | 1076.9 | 1072.1 | 1068.1 | 1065.7 |
| 60° | 987.5 | 990.7 | 987.5 | 984.3 | 985.1 |
| 62.5° | 902.1 | 906.9 | 907.7 | 901.3 | 899.7 |
| 65° | 816.6 | 820.6 | 815.9 | 812.7 | 811.1 |
| 67.5° | 733.6 | 732.8 | 728.8 | 724.8 | 723.2 |
| 70° | 639.4 | 645.0 | 642.6 | 643.4 | 635.4 |
| 72.5° | 555.6 | 556.4 | 554.0 | 554.0 | 547.6 |
| 75° | 468.6 | 466.2 | 469.4 | 466.2 | 463.0 |
| 77.5° | 382.4 | 384.8 | 384.0 | 380.0 | 383.2 |
| 80° | 292.2 | 295.4 | 297.0 | 293.8 | 297.0 |
| 82.5° | 216.3 | 216.3 | 215.5 | 215.5 | 213.1 |
| 85° | 138.1 | 133.3 | 136.5 | 133.3 | 134.1 |
| 87.5° | 63.1 | 62.3 | 59.1 | 61.5 | 60.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)