

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: P568345

Luminaire Tested: **22CGTX-60HE-L830**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2205-645-17)
Test Lab: INNOVATION CENTER
Issue Date: 9/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CGTX-60HE-L830
Description: 2X2 6000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

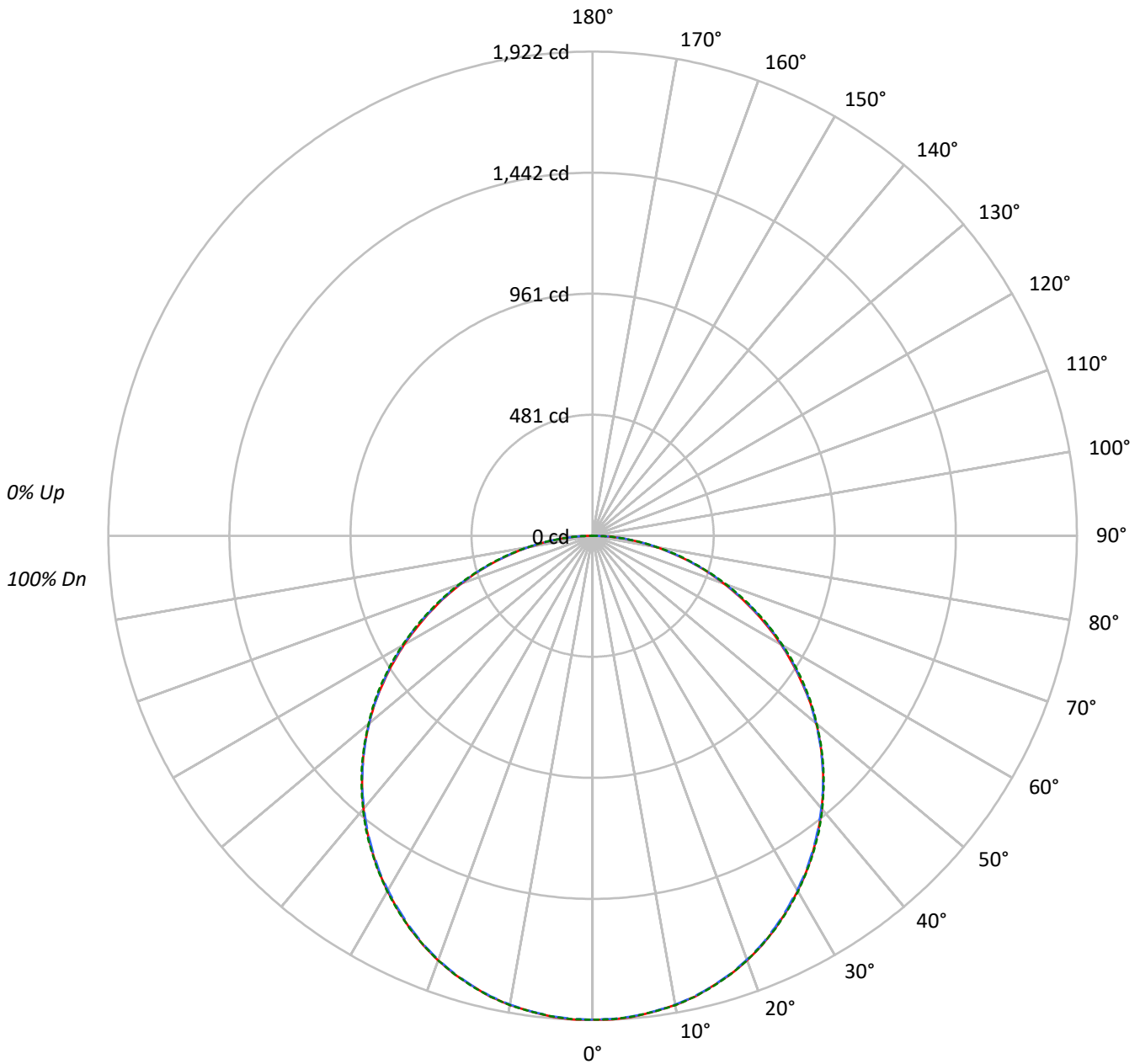
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5622.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.4
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

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CATALOG NUMBER: 22CGTX-60HE-L830

Luminous Intensity Polar Plot





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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 | 94 | 90 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | |
| | 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | |
| | 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | |
| | 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 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 | 45 | 39 | 50 | 44 | 39 | 37 | | | | | | | | | | | | | | | | | | |
| | 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | |
| | 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | | | | | | | | | | | | | | |
| | 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | |
| | 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5169 | 5169 | 5169 |
| 5° | 5173 | 5168 | 5171 |
| 10° | 5168 | 5162 | 5170 |
| 15° | 5151 | 5151 | 5157 |
| 20° | 5136 | 5128 | 5136 |
| 25° | 5101 | 5090 | 5104 |
| 30° | 5059 | 5047 | 5065 |
| 35° | 5015 | 5005 | 5025 |
| 40° | 4969 | 4959 | 4979 |
| 45° | 4913 | 4910 | 4928 |
| 50° | 4848 | 4844 | 4860 |
| 55° | 4751 | 4764 | 4796 |
| 60° | 4646 | 4667 | 4698 |
| 65° | 4510 | 4540 | 4577 |
| 70° | 4353 | 4398 | 4435 |
| 75° | 4180 | 4210 | 4259 |
| 80° | 3930 | 3975 | 4004 |
| 85° | 3575 | 3606 | 3665 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 181.9 | 3.2 |
| 10°-20° | 521.9 | 9.3 |
| 20°-30° | 790.8 | 14.1 |
| 30°-40° | 955.1 | 17.0 |
| 40°-50° | 996.5 | 17.7 |
| 50°-60° | 908.8 | 16.2 |
| 60°-70° | 706.4 | 12.6 |
| 70°-80° | 428.5 | 7.6 |
| 80°-90° | 132.1 | 2.3 |
| 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° | 1494.6 | 26.6 |
| 0°-40° | 2449.7 | 43.6 |
| 0°-60° | 4355.0 | 77.5 |
| 0°-90° | 5622.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5622.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1921 | 1921 | 1921 | 1921 | 1921 | |
| 5° | 1915 | 1912 | 1913 | 1912 | 1914 | 182 |
| 15° | 1849 | 1849 | 1849 | 1849 | 1851 | 522 |
| 25° | 1718 | 1714 | 1714 | 1717 | 1719 | 792 |
| 35° | 1527 | 1525 | 1524 | 1530 | 1530 | 955 |
| 45° | 1291 | 1290 | 1290 | 1296 | 1295 | 996 |
| 55° | 1013 | 1014 | 1016 | 1018 | 1022 | 906 |
| 65° | 708 | 710 | 713 | 716 | 719 | 701 |
| 75° | 402 | 401 | 405 | 409 | 410 | 425 |
| 85° | 116 | 117 | 117 | 120 | 119 | 131 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P568345

CATALOG NUMBER: 22CGTX-60HE-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1920.9 | 1920.9 | 1920.9 | 1920.9 | 1920.9 |
| 2.5° | 1921.9 | 1919.0 | 1919.0 | 1918.1 | 1920.9 |
| 5° | 1915.2 | 1912.3 | 1913.3 | 1912.3 | 1914.2 |
| 7.5° | 1903.7 | 1901.8 | 1902.7 | 1901.8 | 1903.7 |
| 10° | 1891.3 | 1889.3 | 1889.3 | 1889.3 | 1892.2 |
| 12.5° | 1874.0 | 1872.1 | 1872.1 | 1872.1 | 1874.0 |
| 15° | 1849.1 | 1849.1 | 1849.1 | 1849.1 | 1851.1 |
| 17.5° | 1824.3 | 1821.4 | 1822.3 | 1821.4 | 1824.3 |
| 20° | 1793.6 | 1789.8 | 1790.8 | 1790.8 | 1793.6 |
| 22.5° | 1758.2 | 1754.4 | 1755.3 | 1755.3 | 1757.3 |
| 25° | 1718.0 | 1714.2 | 1714.2 | 1717.1 | 1719.0 |
| 27.5° | 1674.0 | 1671.1 | 1670.2 | 1674.9 | 1675.9 |
| 30° | 1628.0 | 1626.1 | 1624.2 | 1629.0 | 1630.0 |
| 32.5° | 1579.2 | 1577.3 | 1576.4 | 1581.1 | 1581.1 |
| 35° | 1526.6 | 1524.7 | 1523.7 | 1529.5 | 1529.5 |
| 37.5° | 1472.0 | 1471.1 | 1469.2 | 1474.9 | 1475.9 |
| 40° | 1414.6 | 1412.7 | 1411.7 | 1417.5 | 1417.5 |
| 42.5° | 1354.3 | 1352.4 | 1353.4 | 1358.1 | 1357.2 |
| 45° | 1291.1 | 1290.2 | 1290.2 | 1295.9 | 1295.0 |
| 47.5° | 1226.1 | 1224.1 | 1225.1 | 1230.8 | 1228.9 |
| 50° | 1158.1 | 1156.2 | 1157.1 | 1162.9 | 1161.0 |
| 52.5° | 1088.2 | 1086.3 | 1088.2 | 1094.0 | 1094.0 |
| 55° | 1012.6 | 1014.5 | 1015.5 | 1018.4 | 1022.2 |
| 57.5° | 938.9 | 939.9 | 943.7 | 945.6 | 948.5 |
| 60° | 863.3 | 865.2 | 867.1 | 871.0 | 872.9 |
| 62.5° | 785.8 | 788.7 | 794.4 | 794.4 | 796.3 |
| 65° | 708.3 | 710.2 | 713.0 | 715.9 | 718.8 |
| 67.5° | 631.7 | 632.7 | 637.4 | 638.4 | 641.3 |
| 70° | 553.2 | 554.2 | 559.0 | 559.9 | 563.7 |
| 72.5° | 478.6 | 477.6 | 481.4 | 486.2 | 486.2 |
| 75° | 402.0 | 401.0 | 404.9 | 408.7 | 409.6 |
| 77.5° | 327.3 | 326.4 | 329.2 | 334.0 | 334.0 |
| 80° | 253.6 | 255.5 | 256.5 | 260.3 | 258.4 |
| 82.5° | 182.8 | 183.8 | 184.7 | 187.6 | 185.7 |
| 85° | 115.8 | 116.8 | 116.8 | 119.6 | 118.7 |
| 87.5° | 54.6 | 53.6 | 53.6 | 55.5 | 54.6 |
| 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)