

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: P568468

Luminaire Tested: **24CGTX-40HE-L840**

Issue Date: 9/19/2022



Test Information

Test Method: LM-79-08
Report Number: P568468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CGTX-40HE-L840
Description: 2X4 4000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

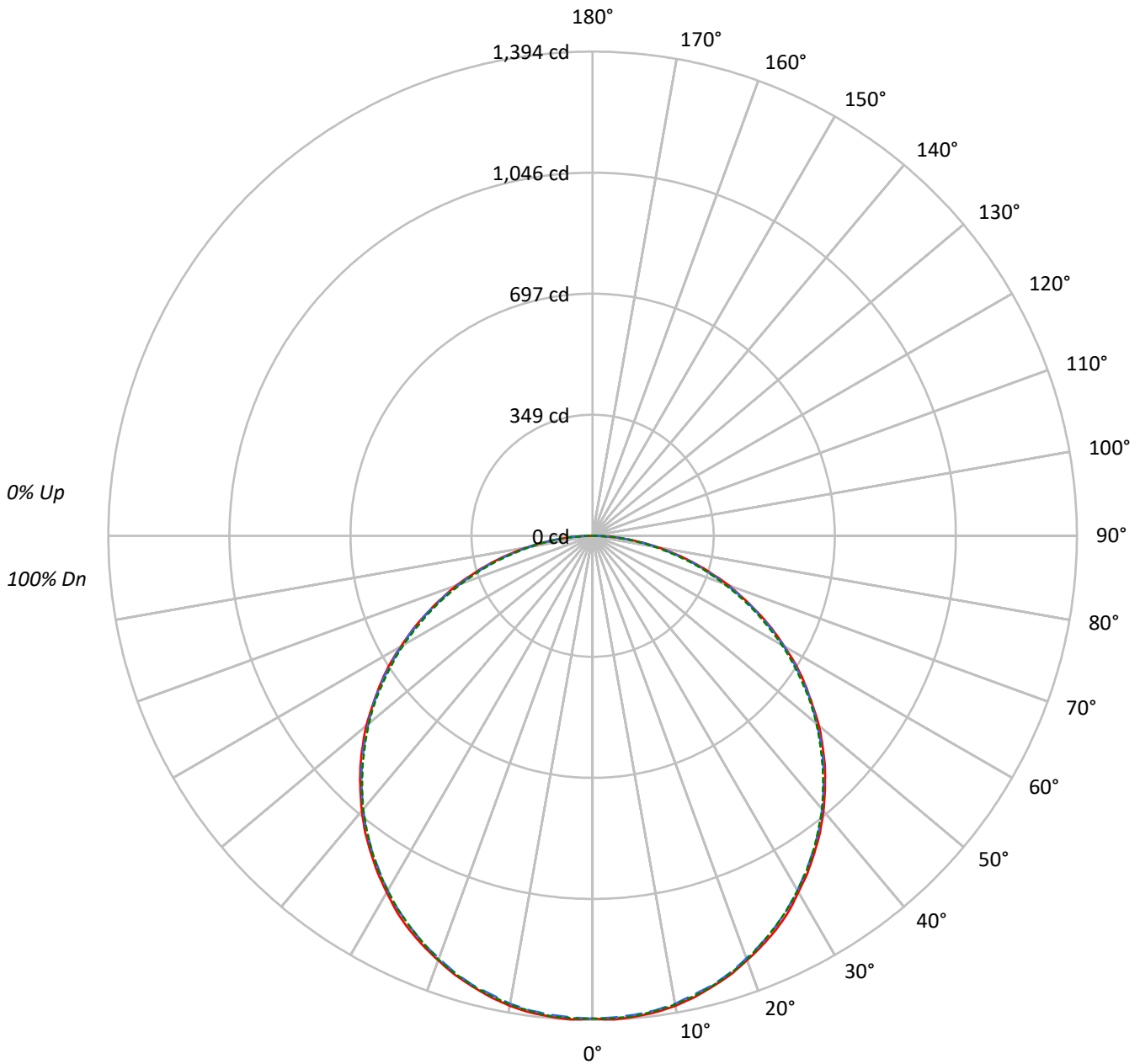
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4085.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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: P568468
CATALOG NUMBER: 24CGTX-40HE-L840

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 | 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 | 76 | 72 | 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 | 79 | 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 | 32 | | | |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 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 | 38 | 31 | 26 | 37 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1870 | 1870 | 1870 |
| 5° | 1878 | 1870 | 1875 |
| 10° | 1877 | 1869 | 1872 |
| 15° | 1870 | 1864 | 1867 |
| 20° | 1862 | 1854 | 1859 |
| 25° | 1857 | 1845 | 1845 |
| 30° | 1841 | 1832 | 1832 |
| 35° | 1829 | 1819 | 1819 |
| 40° | 1816 | 1805 | 1805 |
| 45° | 1800 | 1789 | 1781 |
| 50° | 1780 | 1764 | 1759 |
| 55° | 1752 | 1743 | 1729 |
| 60° | 1715 | 1710 | 1694 |
| 65° | 1674 | 1668 | 1642 |
| 70° | 1638 | 1606 | 1575 |
| 75° | 1574 | 1533 | 1501 |
| 80° | 1481 | 1450 | 1389 |
| 85° | 1352 | 1321 | 1261 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.7 | 3.2 |
| 10°-20° | 377.7 | 9.2 |
| 20°-30° | 573.2 | 14.0 |
| 30°-40° | 693.6 | 17.0 |
| 40°-50° | 724.5 | 17.7 |
| 50°-60° | 662.8 | 16.2 |
| 60°-70° | 515.8 | 12.6 |
| 70°-80° | 310.9 | 7.6 |
| 80°-90° | 94.7 | 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° | 1082.7 | 26.5 |
| 0°-40° | 1776.2 | 43.5 |
| 0°-60° | 3163.5 | 77.4 |
| 0°-90° | 4085.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4085.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1390 | 1390 | 1390 | 1390 | 1390 | |
| 5° | 1390 | 1386 | 1384 | 1384 | 1388 | 132 |
| 15° | 1342 | 1338 | 1338 | 1336 | 1340 | 379 |
| 25° | 1251 | 1245 | 1243 | 1241 | 1243 | 576 |
| 35° | 1113 | 1109 | 1107 | 1107 | 1107 | 697 |
| 45° | 946 | 940 | 940 | 936 | 936 | 729 |
| 55° | 747 | 745 | 743 | 737 | 737 | 667 |
| 65° | 526 | 526 | 524 | 516 | 516 | 521 |
| 75° | 303 | 299 | 295 | 289 | 289 | 319 |
| 85° | 88 | 86 | 86 | 82 | 82 | 98 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 24CGTX-40HE-L840

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 |
| 2.5° | 1394.2 | 1390.2 | 1388.2 | 1388.2 | 1390.2 |
| 5° | 1390.2 | 1386.2 | 1384.2 | 1384.2 | 1388.2 |
| 7.5° | 1384.2 | 1378.2 | 1378.2 | 1376.2 | 1380.2 |
| 10° | 1374.2 | 1368.3 | 1368.3 | 1366.3 | 1370.3 |
| 12.5° | 1360.3 | 1354.3 | 1352.3 | 1352.3 | 1356.3 |
| 15° | 1342.4 | 1338.4 | 1338.4 | 1336.4 | 1340.4 |
| 17.5° | 1324.4 | 1318.5 | 1318.5 | 1316.5 | 1320.5 |
| 20° | 1300.5 | 1296.6 | 1294.6 | 1294.6 | 1298.6 |
| 22.5° | 1276.6 | 1272.7 | 1270.7 | 1270.7 | 1270.7 |
| 25° | 1250.8 | 1244.8 | 1242.8 | 1240.8 | 1242.8 |
| 27.5° | 1220.9 | 1212.9 | 1212.9 | 1210.9 | 1212.9 |
| 30° | 1185.0 | 1181.0 | 1179.1 | 1177.1 | 1179.1 |
| 32.5° | 1151.2 | 1145.2 | 1143.2 | 1145.2 | 1145.2 |
| 35° | 1113.3 | 1109.3 | 1107.4 | 1107.4 | 1107.4 |
| 37.5° | 1075.5 | 1069.5 | 1069.5 | 1067.5 | 1067.5 |
| 40° | 1033.7 | 1029.7 | 1027.7 | 1027.7 | 1027.7 |
| 42.5° | 989.8 | 985.9 | 983.9 | 981.9 | 981.9 |
| 45° | 946.0 | 940.1 | 940.1 | 936.1 | 936.1 |
| 47.5° | 898.2 | 894.3 | 892.3 | 888.3 | 888.3 |
| 50° | 850.4 | 846.5 | 842.5 | 842.5 | 840.5 |
| 52.5° | 796.7 | 796.7 | 794.7 | 790.7 | 790.7 |
| 55° | 746.9 | 744.9 | 742.9 | 736.9 | 736.9 |
| 57.5° | 695.1 | 693.1 | 689.1 | 683.1 | 683.1 |
| 60° | 637.3 | 637.3 | 635.3 | 627.4 | 629.4 |
| 62.5° | 583.6 | 581.6 | 579.6 | 573.6 | 571.6 |
| 65° | 525.8 | 525.8 | 523.8 | 515.8 | 515.8 |
| 67.5° | 470.0 | 470.0 | 466.0 | 458.1 | 458.1 |
| 70° | 416.3 | 410.3 | 408.3 | 402.3 | 400.3 |
| 72.5° | 356.5 | 354.5 | 350.5 | 344.6 | 344.6 |
| 75° | 302.7 | 298.7 | 294.8 | 288.8 | 288.8 |
| 77.5° | 245.0 | 241.0 | 237.0 | 235.0 | 231.0 |
| 80° | 191.2 | 189.2 | 187.2 | 181.2 | 179.2 |
| 82.5° | 137.4 | 135.4 | 133.4 | 131.4 | 129.5 |
| 85° | 87.6 | 85.6 | 85.6 | 81.7 | 81.7 |
| 87.5° | 37.8 | 39.8 | 35.8 | 37.8 | 35.8 |
| 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)