

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: AMETRIX

Report Number: P179420

Luminaire Tested: **LC-1-30K-1-D10-120-24-00**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26063)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: AMETRIX
Catalog Number: LC-1-30K-1-D10-120-24-00
Description: AMETRIX ARCHITECTURAL LED COVE LUMINAIRE.
24-INCH MODULE WITH CLEAR LENS
Light Source: (56)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

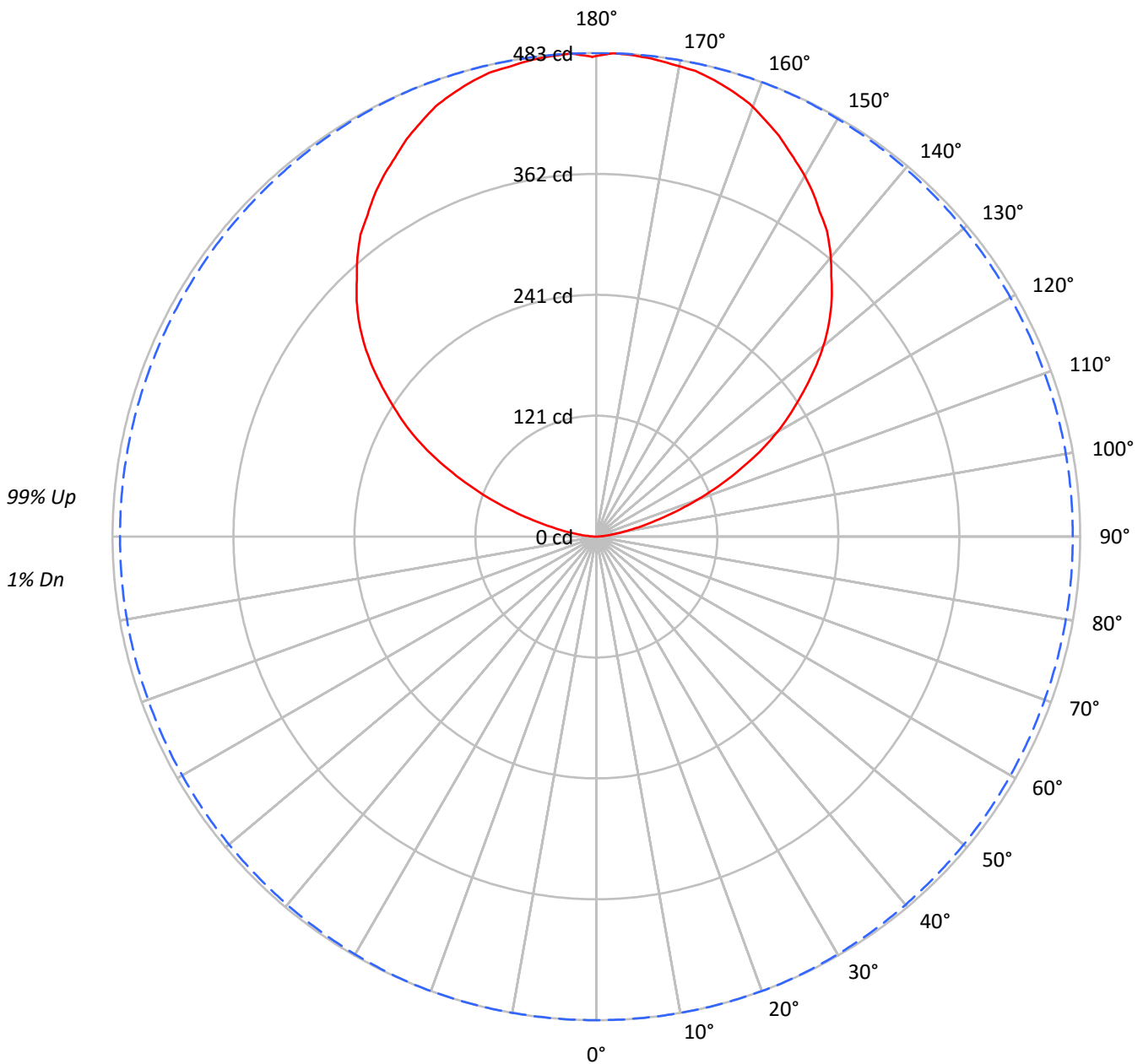
Lumens per Lamp: N/A
Luminaire Lumens: 1382.6 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 0.1' x H: 0.06')
CIE Type: Indirect

Input Watts (W): 12.5
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



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Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 177.5° Vertical



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 95 | 95 | 95 | 95 | 82 | 82 | 82 | 82 | 56 | 56 | 56 | 32 | 32 | 32 | 11 | 11 | 11 | 1 |
| 1 | 87 | 82 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 9 | 0 |
| 2 | 79 | 72 | 66 | 61 | 67 | 62 | 57 | 53 | 42 | 39 | 37 | 24 | 23 | 22 | 8 | 8 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 22 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 55 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 15 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 31 | 29 | 25 | 22 | 17 | 15 | 13 | 6 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 31 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 46 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 2 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|----|-----|------|
| 0° | 0 | 0 | 0 |
| 5° | 0 | 0 | 0 |
| 10° | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 |
| 20° | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 |
| 30° | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 |
| 40° | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 |
| 50° | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 119 | 218 |
| 70° | 0 | 129 | 264 |
| 75° | 0 | 210 | 679 |
| 80° | 0 | 396 | 1188 |
| 85° | 0 | 641 | 2446 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.9 | 0.1 |
| 70°-80° | 2.4 | 0.2 |
| 80°-90° | 5.7 | 0.4 |
| 90°-100° | 19.4 | 1.4 |
| 100°-110° | 85.2 | 6.2 |
| 110°-120° | 166.1 | 12.0 |
| 120°-130° | 227.3 | 16.4 |
| 130°-140° | 255.9 | 18.5 |
| 140°-150° | 243.3 | 17.6 |
| 150°-160° | 200.1 | 14.5 |
| 160°-170° | 130.9 | 9.5 |
| 170°-180° | 45.5 | 3.3 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 9.0 | 0.6 |
| 90°-120° | 270.7 | 19.6 |
| 90°-150° | 997.1 | 72.1 |
| 90°-180° | 1374.0 | 99.4 |
| 0°-180° | 1382.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 0 | 0 | 0 | 0 | 0 | |
| 5° | 0 | 0 | 0 | 0 | 0 | 0 |
| 15° | 0 | 0 | 0 | 0 | 0 | 0 |
| 25° | 0 | 0 | 0 | 0 | 0 | 0 |
| 35° | 0 | 0 | 0 | 0 | 0 | 0 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 1 | 2 | 2 | 2 | 0 |
| 75° | 0 | 1 | 3 | 4 | 4 | 0 |
| 85° | 0 | 4 | 7 | 7 | 6 | 0 |
| 90° | 0 | 8 | 10 | 8 | 8 | 0 |
| 95° | 8 | 20 | 18 | 14 | 13 | 12 |
| 105° | 65 | 72 | 90 | 92 | 87 | 71 |
| 115° | 162 | 165 | 166 | 172 | 174 | 161 |
| 125° | 256 | 254 | 259 | 252 | 256 | 229 |
| 135° | 335 | 332 | 333 | 333 | 333 | 258 |
| 145° | 394 | 386 | 388 | 390 | 388 | 247 |
| 155° | 440 | 440 | 431 | 432 | 430 | 202 |
| 165° | 470 | 470 | 466 | 456 | 453 | 133 |
| 175° | 482 | 482 | 478 | 474 | 472 | 46 |
| 180° | 479 | 479 | 479 | 479 | 479 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.9 | 1.9 | 1.9 | 1.9 |
| 67.5° | 0.0 | 0.9 | 1.9 | 1.9 | 1.9 |
| 70° | 0.0 | 0.9 | 1.9 | 1.9 | 1.9 |
| 72.5° | 0.0 | 0.9 | 1.9 | 2.8 | 2.8 |
| 75° | 0.0 | 0.9 | 2.8 | 3.8 | 3.8 |
| 77.5° | 0.0 | 0.9 | 3.8 | 3.8 | 3.8 |
| 80° | 0.0 | 1.9 | 4.7 | 4.7 | 4.7 |
| 82.5° | 0.0 | 1.9 | 5.6 | 5.6 | 4.7 |
| 85° | 0.0 | 3.8 | 6.6 | 6.6 | 5.6 |
| 87.5° | 0.0 | 5.6 | 8.5 | 7.5 | 7.5 |
| 90° | 0.0 | 8.5 | 10.3 | 8.5 | 8.5 |
| 92.5° | 2.8 | 13.1 | 13.1 | 11.3 | 10.3 |
| 95° | 8.5 | 19.7 | 17.8 | 14.1 | 13.1 |
| 97.5° | 17.8 | 30.1 | 25.4 | 18.8 | 17.8 |
| 100° | 30.1 | 42.3 | 42.3 | 29.1 | 25.4 |
| 102.5° | 46.0 | 56.3 | 67.6 | 53.5 | 44.1 |
| 105° | 64.8 | 72.3 | 90.2 | 92.0 | 87.3 |
| 107.5° | 87.3 | 92.0 | 106.1 | 118.3 | 122.1 |
| 110° | 111.7 | 115.5 | 124.9 | 133.3 | 135.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 137.1 | 141.8 | 144.6 | 154.9 | 154.9 |
| 115° | 162.5 | 165.3 | 166.2 | 171.8 | 173.7 |
| 117.5° | 188.8 | 188.8 | 186.9 | 190.6 | 192.5 |
| 120° | 213.2 | 211.3 | 207.5 | 213.2 | 212.2 |
| 122.5° | 234.8 | 232.9 | 231.9 | 234.8 | 235.7 |
| 125° | 256.4 | 254.5 | 259.2 | 251.7 | 256.4 |
| 127.5° | 278.9 | 274.2 | 279.8 | 268.6 | 269.5 |
| 130° | 299.6 | 294.9 | 298.6 | 292.0 | 288.3 |
| 132.5° | 318.3 | 313.6 | 316.5 | 315.5 | 309.9 |
| 135° | 335.2 | 332.4 | 333.4 | 333.4 | 333.4 |
| 137.5° | 350.3 | 346.5 | 349.3 | 349.3 | 347.5 |
| 140° | 367.2 | 360.6 | 360.6 | 362.5 | 362.5 |
| 142.5° | 382.2 | 372.8 | 374.7 | 376.6 | 374.7 |
| 145° | 393.5 | 386.0 | 387.8 | 389.7 | 387.8 |
| 147.5° | 406.6 | 401.0 | 401.9 | 399.1 | 400.0 |
| 150° | 417.9 | 414.1 | 413.2 | 410.4 | 409.4 |
| 152.5° | 428.2 | 429.2 | 424.5 | 420.7 | 419.8 |
| 155° | 439.5 | 440.4 | 431.0 | 432.0 | 430.1 |
| 157.5° | 448.9 | 448.9 | 437.6 | 441.4 | 440.4 |
| 160° | 458.3 | 456.4 | 446.1 | 446.1 | 447.0 |
| 162.5° | 464.8 | 463.9 | 456.4 | 448.9 | 448.9 |
| 165° | 470.5 | 469.5 | 465.8 | 456.4 | 452.6 |
| 167.5° | 475.2 | 474.2 | 471.4 | 465.8 | 463.0 |
| 170° | 477.0 | 476.1 | 473.3 | 471.4 | 470.5 |
| 172.5° | 479.9 | 479.9 | 476.1 | 472.3 | 472.3 |
| 175° | 481.7 | 481.7 | 478.0 | 474.2 | 472.3 |
| 177.5° | 482.7 | 482.7 | 478.9 | 476.1 | 475.2 |
| 180° | 478.9 | 478.9 | 478.9 | 478.9 | 478.9 |

(END OF REPORT)