

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: P856444

Luminaire Tested: **12MMS-L3C5-UNV-MEDIUM-2700K**

Issue Date: 7/30/2024

Test Information

Test Method: LM-79-08
Report Number: P856444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-156-10)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12MMS-L3C5-UNV-MEDIUM-2700K
Description: 1x2 Multi-mount Selectable Direct Mound LED Backlit Panel at MEDIUM and 2700K settings
Light Source: -
Ballast/Driver: -

Summary

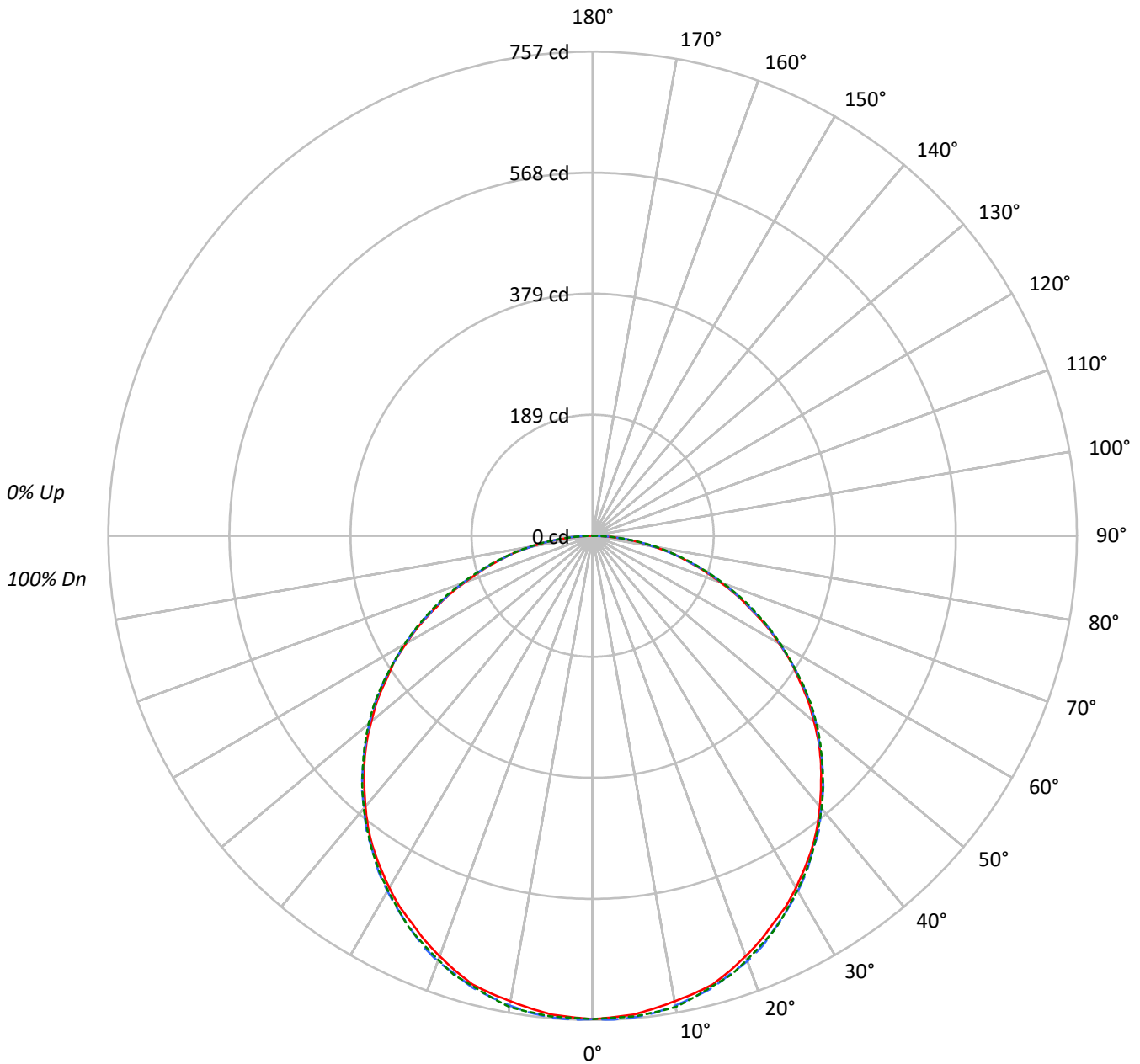
Lumens per Lamp: N/A
Luminaire Lumens: 2200.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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





TEST NUMBER: P856444

CATALOG NUMBER: 12MMS-L3C5-UNV-MEDIUM-2700K

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 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | | | | | | | | | | | | | | | | | |
| 6 | 70 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5324 | 5324 | 5324 |
| 5° | 5313 | 5345 | 5334 |
| 10° | 5287 | 5336 | 5352 |
| 15° | 5296 | 5329 | 5312 |
| 20° | 5245 | 5307 | 5290 |
| 25° | 5195 | 5254 | 5266 |
| 30° | 5171 | 5220 | 5208 |
| 35° | 5140 | 5160 | 5166 |
| 40° | 5083 | 5112 | 5118 |
| 45° | 5030 | 5061 | 5061 |
| 50° | 4950 | 4992 | 5008 |
| 55° | 4847 | 4902 | 4902 |
| 60° | 4746 | 4767 | 4788 |
| 65° | 4563 | 4601 | 4665 |
| 70° | 4369 | 4447 | 4478 |
| 75° | 4181 | 4200 | 4304 |
| 80° | 3887 | 3919 | 4102 |
| 85° | 3444 | 3500 | 3630 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.7 | 3.3 |
| 10°-20° | 205.5 | 9.3 |
| 20°-30° | 310.9 | 14.1 |
| 30°-40° | 375.4 | 17.1 |
| 40°-50° | 391.2 | 17.8 |
| 50°-60° | 356.1 | 16.2 |
| 60°-70° | 274.8 | 12.5 |
| 70°-80° | 164.9 | 7.5 |
| 80°-90° | 49.6 | 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° | 588.0 | 26.7 |
| 0°-40° | 963.5 | 43.8 |
| 0°-60° | 1710.7 | 77.8 |
| 0°-90° | 2200.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2200.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 756 | 756 | 756 | 756 | 756 | |
| 5° | 751 | 752 | 756 | 755 | 754 | 71 |
| 15° | 726 | 728 | 731 | 729 | 728 | 204 |
| 25° | 668 | 674 | 676 | 675 | 677 | 309 |
| 35° | 598 | 601 | 600 | 602 | 601 | 374 |
| 45° | 505 | 506 | 508 | 508 | 508 | 389 |
| 55° | 395 | 398 | 399 | 399 | 399 | 354 |
| 65° | 274 | 277 | 276 | 279 | 280 | 272 |
| 75° | 154 | 156 | 154 | 157 | 158 | 163 |
| 85° | 43 | 43 | 43 | 44 | 45 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P856444

CATALOG NUMBER: 12MMS-L3C5-UNV-MEDIUM-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 755.7 | 755.7 | 755.7 | 755.7 | 755.7 |
| 2.5° | 753.4 | 755.0 | 757.2 | 757.2 | 754.2 |
| 5° | 751.2 | 751.9 | 755.7 | 755.0 | 754.2 |
| 7.5° | 745.1 | 748.1 | 751.9 | 751.9 | 751.2 |
| 10° | 739.0 | 742.8 | 745.8 | 746.6 | 748.1 |
| 12.5° | 732.9 | 735.2 | 738.2 | 739.7 | 738.2 |
| 15° | 726.1 | 727.6 | 730.6 | 729.1 | 728.3 |
| 17.5° | 713.1 | 715.4 | 717.7 | 717.7 | 720.0 |
| 20° | 699.5 | 701.0 | 707.8 | 707.8 | 705.5 |
| 22.5° | 685.0 | 687.3 | 694.1 | 691.1 | 691.1 |
| 25° | 668.3 | 674.4 | 675.9 | 675.1 | 677.4 |
| 27.5° | 653.8 | 656.1 | 659.2 | 659.9 | 658.4 |
| 30° | 635.6 | 637.9 | 641.7 | 640.2 | 640.2 |
| 32.5° | 616.6 | 618.9 | 622.7 | 621.9 | 621.1 |
| 35° | 597.6 | 600.6 | 599.9 | 602.1 | 600.6 |
| 37.5° | 576.3 | 576.3 | 580.9 | 579.3 | 578.6 |
| 40° | 552.7 | 555.0 | 555.8 | 556.5 | 556.5 |
| 42.5° | 528.4 | 531.4 | 533.7 | 532.2 | 533.0 |
| 45° | 504.8 | 505.6 | 507.9 | 507.9 | 507.9 |
| 47.5° | 479.7 | 481.3 | 481.3 | 482.8 | 482.8 |
| 50° | 451.6 | 454.6 | 455.4 | 457.7 | 456.9 |
| 52.5° | 425.0 | 425.0 | 428.0 | 429.6 | 429.6 |
| 55° | 394.6 | 398.4 | 399.1 | 399.1 | 399.1 |
| 57.5° | 368.0 | 369.5 | 368.0 | 370.3 | 368.7 |
| 60° | 336.8 | 338.3 | 338.3 | 339.8 | 339.8 |
| 62.5° | 307.2 | 307.9 | 308.7 | 310.2 | 310.2 |
| 65° | 273.7 | 276.7 | 276.0 | 279.0 | 279.8 |
| 67.5° | 244.8 | 246.3 | 246.3 | 248.6 | 249.4 |
| 70° | 212.1 | 215.2 | 215.9 | 219.0 | 217.4 |
| 72.5° | 182.5 | 184.7 | 186.3 | 187.0 | 187.0 |
| 75° | 153.6 | 155.9 | 154.3 | 157.4 | 158.1 |
| 77.5° | 127.0 | 125.4 | 126.2 | 127.7 | 127.7 |
| 80° | 95.8 | 97.3 | 96.6 | 98.1 | 101.1 |
| 82.5° | 69.2 | 69.9 | 70.7 | 71.5 | 71.5 |
| 85° | 42.6 | 42.6 | 43.3 | 44.1 | 44.9 |
| 87.5° | 19.0 | 19.8 | 19.8 | 19.0 | 19.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)