

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P895423

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVR-UNV-CC83-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

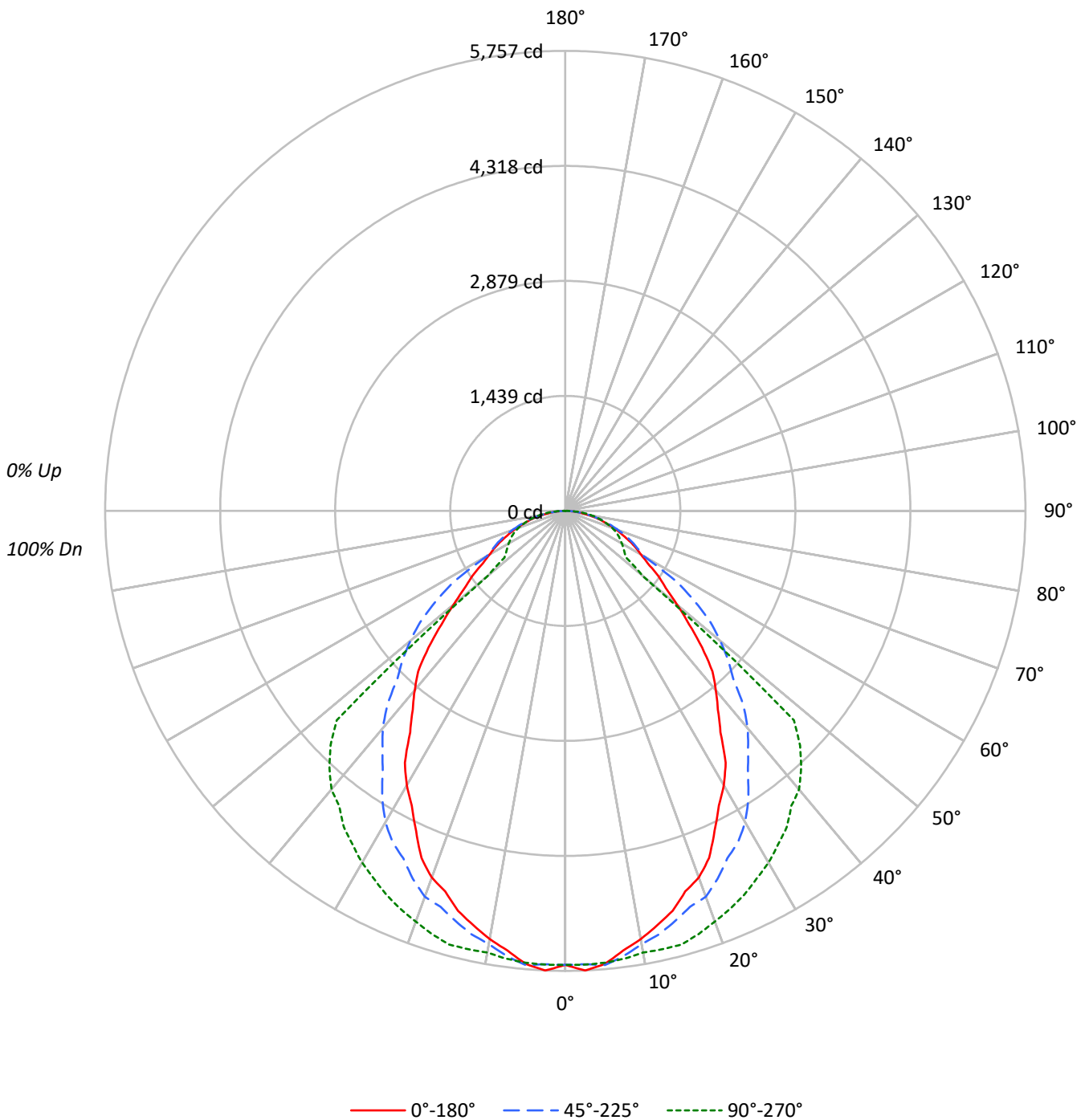
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12124.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895423
CATALOG NUMBER: 8TMB-SC3-LVR-UNV-CC83-HI-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P895423
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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 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 102 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | 77 | 77 | 77 | 75 |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 67 | 67 | 67 | 65 |
| 4 | 87 | 76 | 68 | 62 | 84 | 74 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 59 | 59 | 59 | 57 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 53 | 63 | 58 | 53 | 62 | 57 | 52 | 52 | 52 | 52 | 50 |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 56 | 51 | 47 | 47 | 47 | 47 | 45 |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 42 | 42 | 42 | 40 |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 38 | 38 | 38 | 36 |
| 9 | 61 | 48 | 40 | 35 | 59 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 35 | 35 | 35 | 33 |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 32 | 32 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 20158 | 20158 | 20158 |
| 5° | 20266 | 20318 | 20214 |
| 10° | 19601 | 19831 | 20218 |
| 15° | 19036 | 19516 | 20635 |
| 20° | 18439 | 19403 | 20652 |
| 25° | 17300 | 18777 | 20742 |
| 30° | 16251 | 18438 | 20828 |
| 35° | 14655 | 17244 | 20926 |
| 40° | 13574 | 16450 | 21073 |
| 45° | 12143 | 14909 | 20835 |
| 50° | 10074 | 13966 | 6999 |
| 55° | 8777 | 12259 | 5600 |
| 60° | 7763 | 7989 | 5807 |
| 65° | 7381 | 7771 | 6163 |
| 70° | 6924 | 7345 | 6501 |
| 75° | 6445 | 6922 | 6683 |
| 80° | 5870 | 6522 | 6996 |
| 85° | 5199 | 5553 | 7560 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 20835 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 538.9 | 4.4 |
| 10°-20° | 1516.0 | 12.5 |
| 20°-30° | 2230.0 | 18.4 |
| 30°-40° | 2550.2 | 21.0 |
| 40°-50° | 2414.8 | 19.9 |
| 50°-60° | 1330.5 | 11.0 |
| 60°-70° | 854.2 | 7.0 |
| 70°-80° | 527.2 | 4.3 |
| 80°-90° | 162.3 | 1.3 |
| 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° | 4284.8 | 35.3 |
| 0°-40° | 6835.0 | 56.4 |
| 0°-60° | 10580.3 | 87.3 |
| 0°-90° | 12124.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12124.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5681 | 5681 | 5681 | 5681 | 5681 | |
| 5° | 5690 | 5736 | 5704 | 5704 | 5676 | 534 |
| 15° | 5182 | 5246 | 5313 | 5591 | 5618 | 1455 |
| 25° | 4419 | 4616 | 4796 | 5110 | 5298 | 2035 |
| 35° | 3383 | 3673 | 3981 | 4558 | 4831 | 2139 |
| 45° | 2420 | 2649 | 2971 | 3813 | 4152 | 1851 |
| 55° | 1419 | 1488 | 1982 | 1021 | 905 | 1269 |
| 65° | 879 | 908 | 926 | 824 | 734 | 870 |
| 75° | 470 | 479 | 505 | 531 | 488 | 500 |
| 85° | 128 | 128 | 136 | 157 | 186 | 142 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P895423

CATALOG NUMBER: 8TMB-SC3-LVR-UNV-CC83-HI-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5681.3 | 5681.3 | 5681.3 | 5681.3 | 5681.3 |
| 2.5° | 5756.8 | 5771.3 | 5678.4 | 5675.5 | 5684.2 |
| 5° | 5690.0 | 5736.5 | 5704.5 | 5704.5 | 5675.5 |
| 7.5° | 5547.9 | 5626.2 | 5617.5 | 5684.2 | 5652.3 |
| 10° | 5440.5 | 5504.3 | 5504.3 | 5678.4 | 5611.7 |
| 12.5° | 5312.8 | 5385.4 | 5426.0 | 5608.8 | 5617.5 |
| 15° | 5182.3 | 5246.1 | 5312.8 | 5591.4 | 5617.5 |
| 17.5° | 4993.6 | 5109.7 | 5193.9 | 5466.6 | 5550.8 |
| 20° | 4883.4 | 4953.0 | 5138.7 | 5359.2 | 5469.5 |
| 22.5° | 4700.6 | 4802.1 | 4982.0 | 5228.7 | 5391.2 |
| 25° | 4419.1 | 4616.4 | 4796.3 | 5109.7 | 5298.3 |
| 27.5° | 4158.0 | 4306.0 | 4677.4 | 5008.2 | 5188.1 |
| 30° | 3966.5 | 4082.5 | 4500.4 | 4860.2 | 5083.6 |
| 32.5° | 3734.4 | 3923.0 | 4262.4 | 4715.1 | 4953.0 |
| 35° | 3383.3 | 3673.4 | 3981.0 | 4558.4 | 4831.2 |
| 37.5° | 3136.6 | 3336.8 | 3754.7 | 4395.9 | 4648.4 |
| 40° | 2930.6 | 3113.4 | 3551.6 | 4192.8 | 4549.7 |
| 42.5° | 2724.6 | 2872.6 | 3296.2 | 4041.9 | 4366.9 |
| 45° | 2419.9 | 2649.2 | 2971.2 | 3812.7 | 4152.2 |
| 47.5° | 2100.8 | 2344.5 | 2759.4 | 3618.3 | 3879.4 |
| 50° | 1825.1 | 2019.5 | 2530.2 | 3232.4 | 1268.0 |
| 52.5° | 1584.3 | 1764.2 | 2286.5 | 1169.3 | 957.5 |
| 55° | 1418.9 | 1488.5 | 1981.8 | 1021.4 | 905.3 |
| 57.5° | 1221.6 | 1334.7 | 1662.6 | 972.0 | 858.9 |
| 60° | 1093.9 | 1143.2 | 1125.8 | 922.7 | 818.3 |
| 62.5° | 992.3 | 1027.2 | 1021.4 | 873.4 | 771.8 |
| 65° | 879.2 | 908.2 | 925.6 | 824.1 | 734.1 |
| 67.5° | 766.0 | 792.1 | 818.3 | 763.1 | 681.9 |
| 70° | 667.4 | 684.8 | 708.0 | 690.6 | 626.7 |
| 72.5° | 565.8 | 586.1 | 600.6 | 615.1 | 554.2 |
| 75° | 470.1 | 478.8 | 504.9 | 531.0 | 487.5 |
| 77.5° | 383.0 | 391.7 | 409.1 | 438.1 | 414.9 |
| 80° | 287.3 | 296.0 | 319.2 | 342.4 | 342.4 |
| 82.5° | 203.1 | 208.9 | 223.4 | 255.3 | 269.8 |
| 85° | 127.7 | 127.7 | 136.4 | 156.7 | 185.7 |
| 87.5° | 49.3 | 49.3 | 58.0 | 69.6 | 92.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 18.39 | 19.87 | 18.75 | 20.18 | 20.50 | 16.19 | 17.67 | 16.55 | 17.98 | 18.30 |
| | 3H | 19.91 | 21.24 | 20.29 | 21.57 | 21.93 | 18.52 | 19.85 | 18.90 | 20.17 | 20.54 |
| | 4H | 20.50 | 21.75 | 20.90 | 22.10 | 22.48 | 19.47 | 20.71 | 19.87 | 21.06 | 21.44 |
| | 6H | 20.96 | 22.11 | 21.37 | 22.48 | 22.87 | 20.25 | 21.40 | 20.67 | 21.77 | 22.16 |
| | 8H | 21.11 | 22.20 | 21.53 | 22.59 | 22.99 | 20.56 | 21.66 | 20.99 | 22.05 | 22.45 |
| | 12H | 21.20 | 22.25 | 21.63 | 22.63 | 23.06 | 20.81 | 21.86 | 21.24 | 22.24 | 22.67 |
| 4H | 2H | 18.94 | 20.18 | 19.34 | 20.53 | 20.91 | 17.29 | 18.54 | 17.69 | 18.88 | 19.26 |
| | 3H | 20.71 | 21.74 | 21.12 | 22.14 | 22.54 | 19.74 | 20.77 | 20.15 | 21.17 | 21.57 |
| | 4H | 21.43 | 22.35 | 21.86 | 22.77 | 23.21 | 20.80 | 21.73 | 21.24 | 22.15 | 22.59 |
| | 6H | 22.01 | 22.82 | 22.47 | 23.26 | 23.72 | 21.69 | 22.50 | 22.15 | 22.94 | 23.40 |
| | 8H | 22.20 | 22.96 | 22.67 | 23.40 | 23.87 | 22.04 | 22.80 | 22.51 | 23.24 | 23.71 |
| | 12H | 22.34 | 23.01 | 22.82 | 23.49 | 23.96 | 22.33 | 23.00 | 22.81 | 23.48 | 23.96 |
| 8H | 4H | 21.74 | 22.49 | 22.20 | 22.93 | 23.40 | 21.19 | 21.94 | 21.65 | 22.39 | 22.86 |
| | 6H | 22.45 | 23.07 | 22.94 | 23.56 | 24.04 | 22.23 | 22.85 | 22.72 | 23.34 | 23.82 |
| | 8H | 22.71 | 23.27 | 23.22 | 23.78 | 24.27 | 22.67 | 23.23 | 23.19 | 23.74 | 24.23 |
| | 12H | 22.92 | 23.42 | 23.43 | 23.91 | 24.47 | 23.06 | 23.55 | 23.57 | 24.05 | 24.61 |
| 12H | 4H | 21.77 | 22.44 | 22.25 | 22.92 | 23.40 | 21.23 | 21.90 | 21.71 | 22.38 | 22.85 |
| | 6H | 22.51 | 23.07 | 23.03 | 23.58 | 24.07 | 22.29 | 22.85 | 22.80 | 23.36 | 23.85 |
| | 8H | 22.83 | 23.33 | 23.34 | 23.82 | 24.39 | 22.80 | 23.30 | 23.31 | 23.79 | 24.36 |