

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: HALO

Report Number: P886458

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMWB-400LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-92)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMWB-400LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

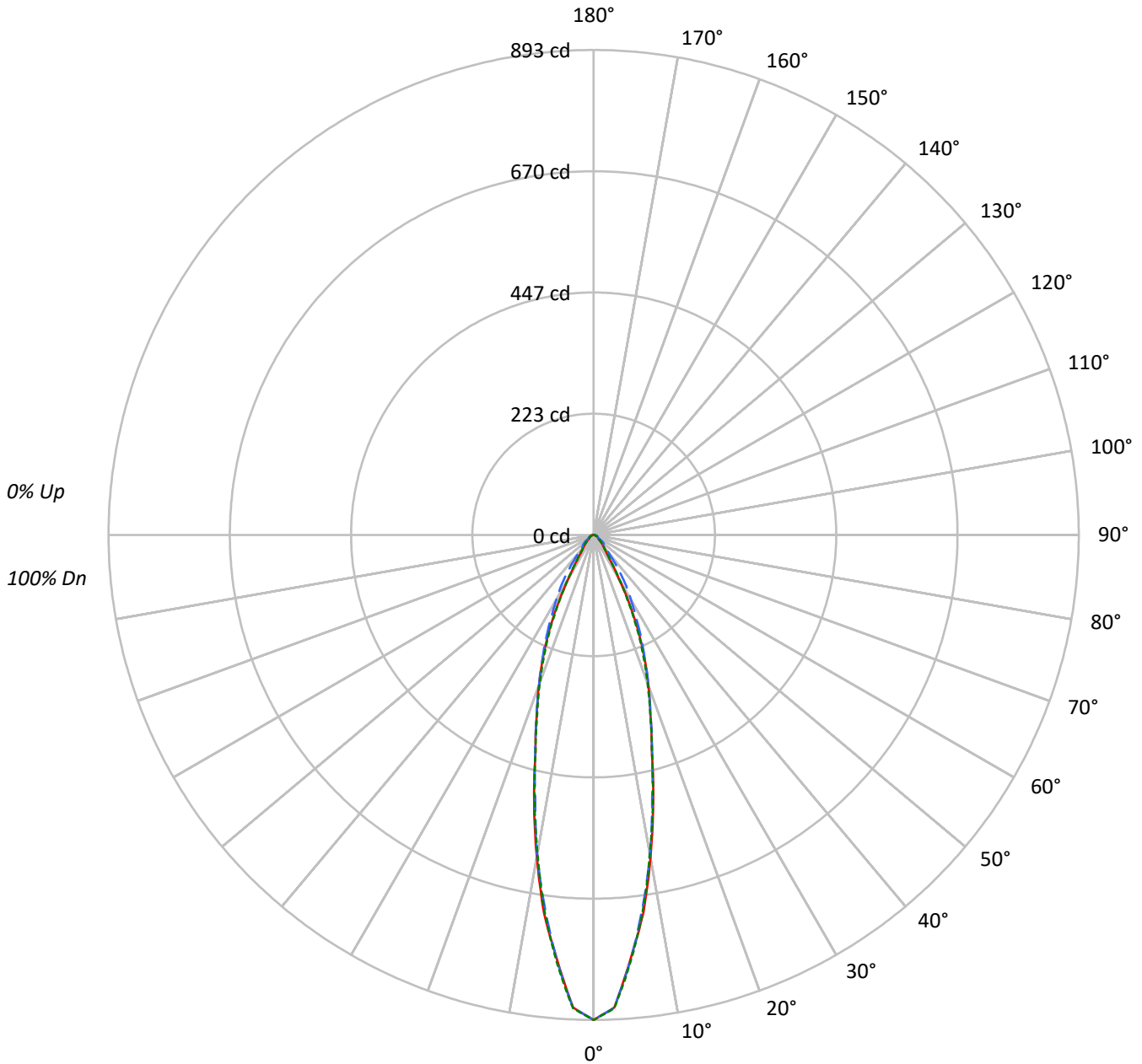
Lumens per Lamp: N/A
Luminaire Lumens: 357.5 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): 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: 24 FT



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Luminous Intensity Polar Plot





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 CATALOG NUMBER: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMWB-400LM-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 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | | | | | | | | | | | | | | | | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 92 | 90 | 89 | 87 | | | | | | | | | | | | | | | | | | | |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 87 | 93 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 82 | | | | | | | | | | | | | | | | | | | |
| 4 | 98 | 91 | 86 | 82 | 96 | 90 | 85 | 81 | 88 | 83 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 80 | 76 | 83 | 79 | 75 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 6 | 90 | 81 | 76 | 72 | 88 | 81 | 75 | 71 | 79 | 74 | 71 | 78 | 74 | 70 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |
| 7 | 86 | 77 | 72 | 68 | 85 | 77 | 71 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 65 | | | | | | | | | | | | | | | | | | | |
| 8 | 82 | 74 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | | | | | | | | | | | | | | | | | | | |
| 9 | 79 | 70 | 65 | 61 | 78 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 67 | 63 | 60 | 59 | | | | | | | | | | | | | | | | | | | |
| 10 | 76 | 67 | 62 | 58 | 75 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 65 | 61 | 58 | 57 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 346114 | 346114 | 346114 |
| 5° | 304221 | 305077 | 306205 |
| 10° | 237070 | 235339 | 234198 |
| 15° | 165843 | 166445 | 165843 |
| 20° | 121401 | 121401 | 119298 |
| 25° | 82690 | 87607 | 79911 |
| 30° | 41344 | 61032 | 42597 |
| 35° | 20152 | 39925 | 21145 |
| 40° | 14214 | 21549 | 14619 |
| 45° | 11453 | 15399 | 10686 |
| 50° | 6933 | 13926 | 6933 |
| 55° | 6823 | 8783 | 6823 |
| 60° | 6742 | 6742 | 6742 |
| 65° | 6602 | 6602 | 6602 |
| 70° | 5778 | 6571 | 6571 |
| 75° | 6438 | 6438 | 6438 |
| 80° | 6471 | 4909 | 6471 |
| 85° | 6224 | 3112 | 6224 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15399 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.1 | 19.3 |
| 10°-20° | 116.6 | 32.6 |
| 20°-30° | 90.1 | 25.2 |
| 30°-40° | 40.1 | 11.2 |
| 40°-50° | 18.4 | 5.2 |
| 50°-60° | 10.2 | 2.8 |
| 60°-70° | 7.2 | 2.0 |
| 70°-80° | 4.5 | 1.2 |
| 80°-90° | 1.4 | 0.4 |
| 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° | 275.8 | 77.2 |
| 0°-40° | 315.9 | 88.4 |
| 0°-60° | 344.5 | 96.4 |
| 0°-90° | 357.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 357.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 893 | 893 | 893 | 893 | 893 | |
| 5° | 782 | 785 | 784 | 786 | 787 | 69 |
| 15° | 413 | 416 | 415 | 416 | 413 | 117 |
| 25° | 193 | 202 | 205 | 198 | 187 | 86 |
| 35° | 43 | 55 | 84 | 56 | 45 | 31 |
| 45° | 21 | 24 | 28 | 23 | 20 | 15 |
| 55° | 10 | 10 | 13 | 10 | 10 | 9 |
| 65° | 7 | 7 | 7 | 7 | 7 | 7 |
| 75° | 4 | 4 | 4 | 4 | 4 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 893.2 | 893.2 | 893.2 | 893.2 | 893.2 |
| 2.5° | 870.9 | 870.1 | 870.9 | 872.3 | 872.3 |
| 5° | 782.1 | 785.0 | 784.3 | 785.7 | 787.2 |
| 7.5° | 701.3 | 694.8 | 690.5 | 691.9 | 696.3 |
| 10° | 602.5 | 594.5 | 598.1 | 596.0 | 595.2 |
| 12.5° | 506.5 | 498.6 | 497.1 | 499.3 | 503.6 |
| 15° | 413.4 | 415.6 | 414.9 | 415.6 | 413.4 |
| 17.5° | 348.5 | 347.8 | 348.5 | 348.5 | 346.3 |
| 20° | 294.4 | 292.2 | 294.4 | 292.9 | 289.3 |
| 22.5° | 243.9 | 246.8 | 245.3 | 246.0 | 237.4 |
| 25° | 193.4 | 202.0 | 204.9 | 197.7 | 186.9 |
| 27.5° | 140.0 | 155.8 | 165.9 | 152.2 | 135.6 |
| 30° | 92.4 | 113.3 | 136.4 | 111.1 | 95.2 |
| 32.5° | 62.8 | 77.9 | 111.1 | 79.4 | 64.2 |
| 35° | 42.6 | 54.8 | 84.4 | 56.3 | 44.7 |
| 37.5° | 33.9 | 41.1 | 60.6 | 41.8 | 34.6 |
| 40° | 28.1 | 33.2 | 42.6 | 33.2 | 28.9 |
| 42.5° | 24.5 | 27.4 | 32.5 | 27.4 | 25.3 |
| 45° | 20.9 | 23.8 | 28.1 | 23.1 | 19.5 |
| 47.5° | 15.2 | 18.8 | 25.3 | 18.0 | 15.9 |
| 50° | 11.5 | 13.0 | 23.1 | 14.4 | 11.5 |
| 52.5° | 10.8 | 10.8 | 18.8 | 10.8 | 10.8 |
| 55° | 10.1 | 10.1 | 13.0 | 10.1 | 10.1 |
| 57.5° | 9.4 | 9.4 | 10.1 | 10.1 | 9.4 |
| 60° | 8.7 | 8.7 | 8.7 | 9.4 | 8.7 |
| 62.5° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| 65° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 67.5° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| 70° | 5.1 | 5.8 | 5.8 | 5.8 | 5.8 |
| 72.5° | 4.3 | 5.1 | 5.1 | 5.1 | 4.3 |
| 75° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 77.5° | 3.6 | 3.6 | 3.6 | 3.6 | 2.9 |
| 80° | 2.9 | 2.9 | 2.2 | 2.9 | 2.9 |
| 82.5° | 1.4 | 2.2 | 1.4 | 2.2 | 1.4 |
| 85° | 1.4 | 1.4 | 0.7 | 1.4 | 1.4 |
| 87.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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