

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: P886082

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-3500K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-3500K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 428.4 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

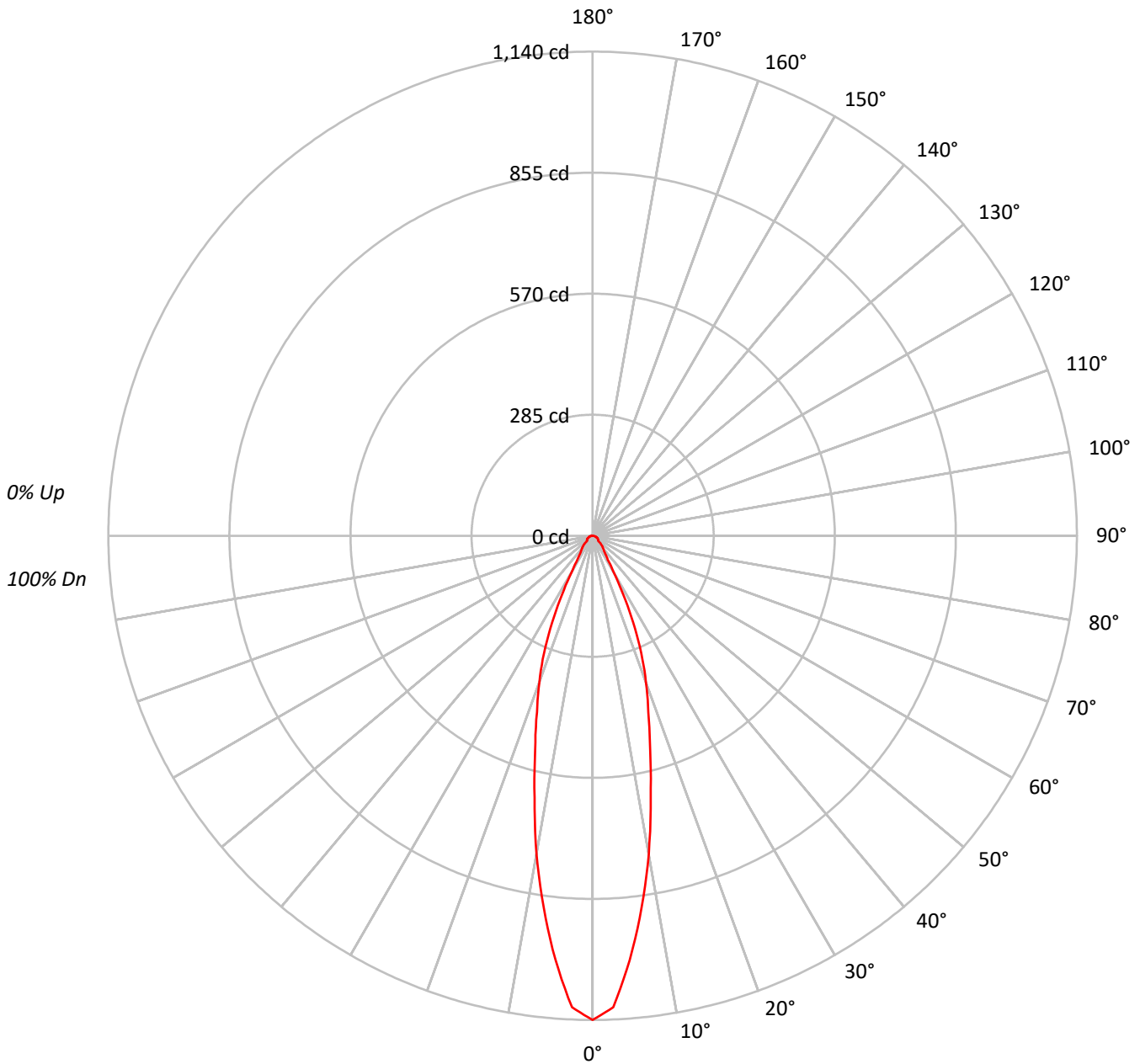
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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 | 100 | 100 | 100 |
| 1 | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 | 93 | 93 | 93 |
| 2 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 | 87 | 87 | 87 |
| 3 | 103 | 96 | 92 | 88 | 101 | 95 | 91 | 87 | 92 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | 81 | 81 | 81 |
| 4 | 98 | 91 | 85 | 81 | 96 | 90 | 85 | 81 | 88 | 83 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 77 | 77 | 77 | 77 |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 80 | 76 | 83 | 79 | 75 | 82 | 78 | 75 | 80 | 77 | 74 | 73 | 73 | 73 | 73 |
| 6 | 90 | 82 | 76 | 72 | 88 | 81 | 76 | 72 | 79 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 69 | 69 | 69 | 69 |
| 7 | 86 | 78 | 72 | 68 | 85 | 77 | 72 | 68 | 76 | 71 | 68 | 75 | 70 | 67 | 74 | 70 | 67 | 66 | 66 | 66 | 66 |
| 8 | 83 | 74 | 69 | 65 | 82 | 74 | 68 | 65 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 63 | 63 | 63 | 63 |
| 9 | 80 | 71 | 66 | 62 | 79 | 71 | 65 | 62 | 70 | 65 | 62 | 69 | 65 | 61 | 68 | 64 | 61 | 60 | 60 | 60 | 60 |
| 10 | 77 | 68 | 63 | 59 | 76 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 65 | 62 | 59 | 58 | 58 | 58 | 58 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 562453 |
| 5° | 496799 |
| 10° | 381054 |
| 15° | 266936 |
| 20° | 192638 |
| 25° | 122759 |
| 30° | 56059 |
| 35° | 30718 |
| 40° | 24796 |
| 45° | 19328 |
| 50° | 13049 |
| 55° | 13849 |
| 60° | 14111 |
| 65° | 13542 |
| 70° | 12839 |
| 75° | 13725 |
| 80° | 12786 |
| 85° | 10190 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19328 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.1 | 20.6 |
| 10°-20° | 146.9 | 34.3 |
| 20°-30° | 102.0 | 23.8 |
| 30°-40° | 35.4 | 8.3 |
| 40°-50° | 20.7 | 4.8 |
| 50°-60° | 14.3 | 3.3 |
| 60°-70° | 11.5 | 2.7 |
| 70°-80° | 7.2 | 1.7 |
| 80°-90° | 2.3 | 0.5 |
| 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° | 337.0 | 78.7 |
| 0°-40° | 372.4 | 86.9 |
| 0°-60° | 407.4 | 95.1 |
| 0°-90° | 428.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 428.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1140 | |
| 5° | 1003 | 88 |
| 15° | 523 | 147 |
| 25° | 226 | 102 |
| 35° | 51 | 35 |
| 45° | 28 | 21 |
| 55° | 16 | 14 |
| 65° | 12 | 11 |
| 75° | 7 | 7 |
| 85° | 2 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1140.0 |
| 2.5° | 1111.4 |
| 5° | 1003.1 |
| 7.5° | 883.2 |
| 10° | 760.6 |
| 12.5° | 630.9 |
| 15° | 522.6 |
| 17.5° | 435.8 |
| 20° | 366.9 |
| 22.5° | 299.8 |
| 25° | 225.5 |
| 27.5° | 155.7 |
| 30° | 98.4 |
| 32.5° | 66.2 |
| 35° | 51.0 |
| 37.5° | 43.8 |
| 40° | 38.5 |
| 42.5° | 34.0 |
| 45° | 27.7 |
| 47.5° | 18.8 |
| 50° | 17.0 |
| 52.5° | 17.0 |
| 55° | 16.1 |
| 57.5° | 15.2 |
| 60° | 14.3 |
| 62.5° | 12.5 |
| 65° | 11.6 |
| 67.5° | 10.7 |
| 70° | 8.9 |
| 72.5° | 8.1 |
| 75° | 7.2 |
| 77.5° | 5.4 |
| 80° | 4.5 |
| 82.5° | 3.6 |
| 85° | 1.8 |
| 87.5° | 0.9 |
| 90° | 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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— 0°-180°

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Scaled Data Report



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