

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: P886216

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2RDSLb-468LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-87)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2RDSLb-468LM-3000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

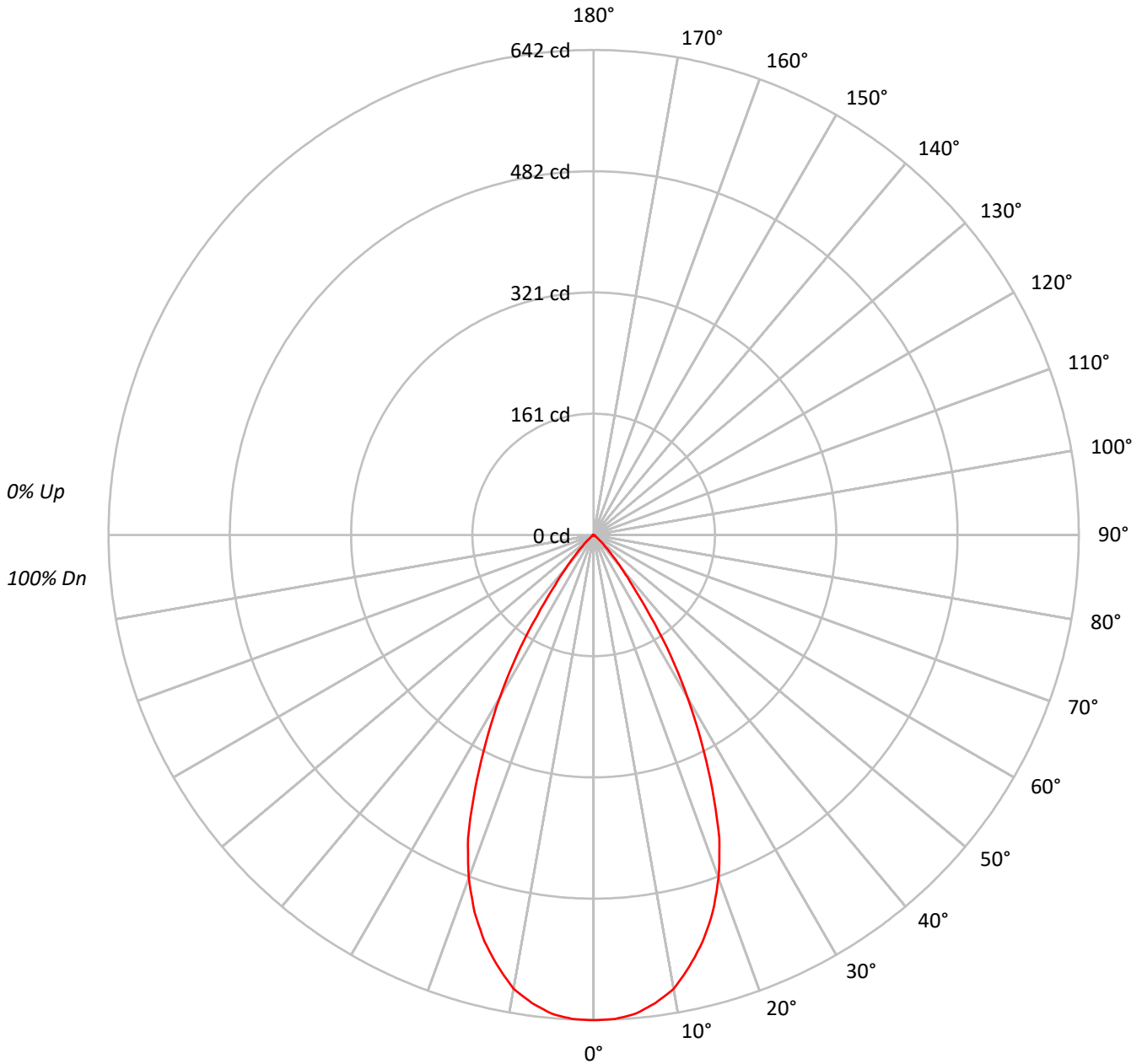
Lumens per Lamp: N/A
Luminaire Lumens: 491.8 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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 | | | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | |
| 2 | 109 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 93 | 91 | 90 | 88 | | | |
| 3 | 103 | 97 | 93 | 89 | 101 | 96 | 92 | 88 | 93 | 90 | 87 | 91 | 88 | 85 | 89 | 86 | 84 | 83 | | | |
| 4 | 99 | 91 | 86 | 82 | 97 | 90 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 80 | 84 | 81 | 79 | 77 | | | |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 80 | 76 | 83 | 79 | 75 | 82 | 78 | 75 | 80 | 77 | 74 | 73 | | | |
| 6 | 89 | 81 | 75 | 71 | 88 | 80 | 75 | 71 | 79 | 74 | 71 | 77 | 73 | 70 | 76 | 72 | 70 | 68 | | | |
| 7 | 85 | 77 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 72 | 69 | 66 | 64 | | | |
| 8 | 81 | 72 | 67 | 63 | 80 | 72 | 66 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 61 | | | |
| 9 | 78 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 66 | 62 | 59 | 57 | | | |
| 10 | 74 | 65 | 60 | 56 | 73 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 63 | 58 | 55 | 54 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 316947 |
| 5° | 315137 |
| 10° | 305755 |
| 15° | 284762 |
| 20° | 253649 |
| 25° | 202184 |
| 30° | 141572 |
| 35° | 78721 |
| 40° | 36261 |
| 45° | 15071 |
| 50° | 5987 |
| 55° | 2236 |
| 60° | 1677 |
| 65° | 1051 |
| 70° | 1298 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15071 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.9 | 12.2 |
| 10°-20° | 155.0 | 31.5 |
| 20°-30° | 168.0 | 34.2 |
| 30°-40° | 85.0 | 17.3 |
| 40°-50° | 19.4 | 4.0 |
| 50°-60° | 3.1 | 0.6 |
| 60°-70° | 1.0 | 0.2 |
| 70°-80° | 0.4 | 0.1 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 382.9 | 77.9 |
| 0°-40° | 467.9 | 95.1 |
| 0°-60° | 490.4 | 99.7 |
| 0°-90° | 491.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 491.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 642 | |
| 5° | 636 | 60 |
| 15° | 558 | 155 |
| 25° | 371 | 168 |
| 35° | 131 | 85 |
| 45° | 22 | 19 |
| 55° | 3 | 3 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 642.4 |
| 2.5° | 641.5 |
| 5° | 636.3 |
| 7.5° | 625.0 |
| 10° | 610.3 |
| 12.5° | 585.2 |
| 15° | 557.5 |
| 17.5° | 523.8 |
| 20° | 483.1 |
| 22.5° | 434.6 |
| 25° | 371.4 |
| 27.5° | 308.2 |
| 30° | 248.5 |
| 32.5° | 190.5 |
| 35° | 130.7 |
| 37.5° | 83.1 |
| 40° | 56.3 |
| 42.5° | 36.4 |
| 45° | 21.6 |
| 47.5° | 13.0 |
| 50° | 7.8 |
| 52.5° | 5.2 |
| 55° | 2.6 |
| 57.5° | 1.7 |
| 60° | 1.7 |
| 62.5° | 0.9 |
| 65° | 0.9 |
| 67.5° | 0.9 |
| 70° | 0.9 |
| 72.5° | 0.9 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 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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