

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: P886081

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-3000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886081  
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-3000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

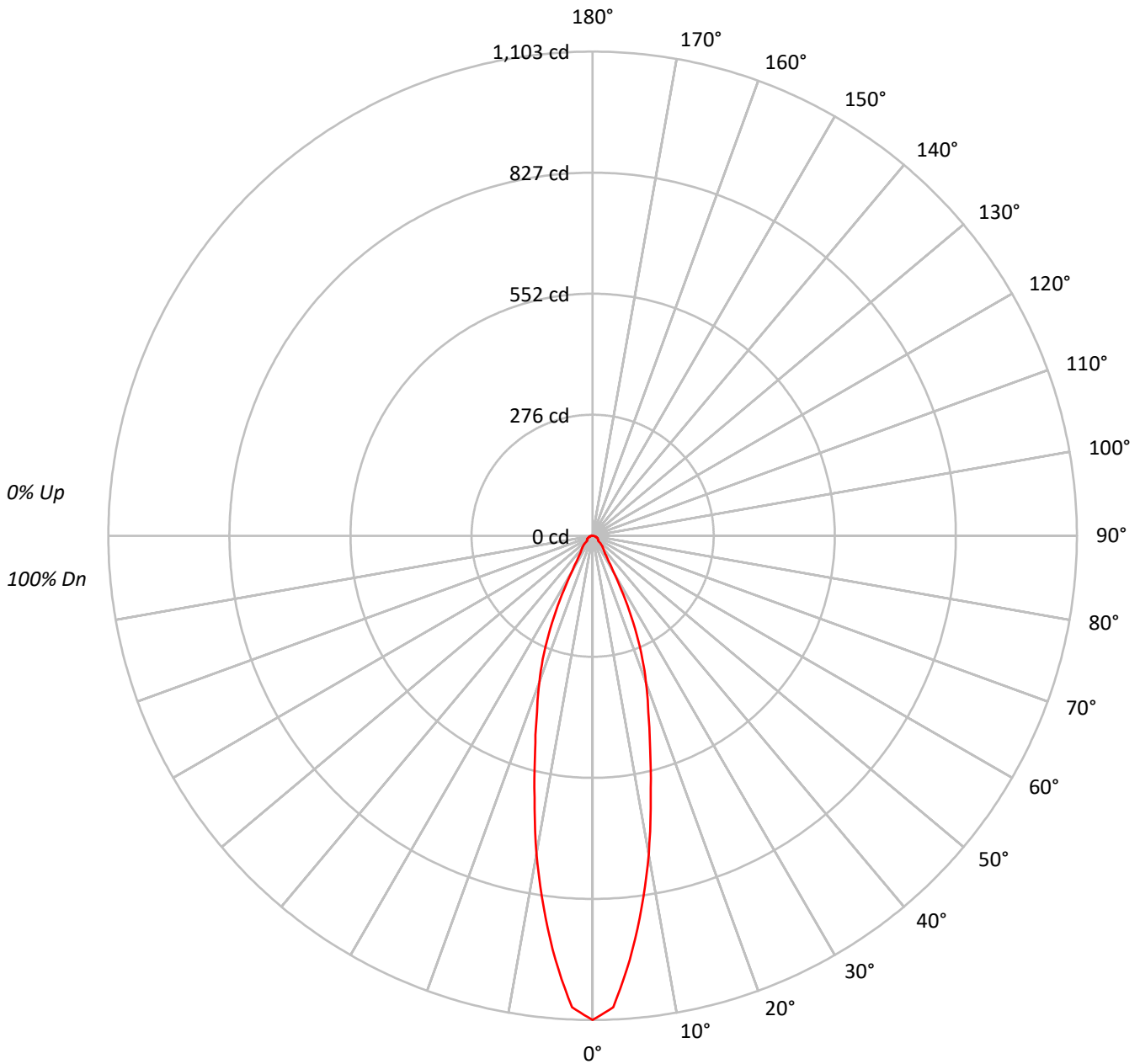
Lumens per Lamp: N/A  
Luminaire Lumens: 414.5 lumens  
Efficiency: N/A  
Efficacy: 51.8 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 544198 |
| 5°  | 480654 |
| 10° | 368679 |
| 15° | 258252 |
| 20° | 186390 |
| 25° | 118785 |
| 30° | 54236  |
| 35° | 29694  |
| 40° | 23959  |
| 45° | 18700  |
| 50° | 12588  |
| 55° | 13419  |
| 60° | 13716  |
| 65° | 13192  |
| 70° | 12550  |
| 75° | 13153  |
| 80° | 12217  |
| 85° | 9624   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18700 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.2   | 20.6      |
| 10°-20°   | 142.1  | 34.3      |
| 20°-30°   | 98.7   | 23.8      |
| 30°-40°   | 34.2   | 8.3       |
| 40°-50°   | 20.0   | 4.8       |
| 50°-60°   | 13.8   | 3.3       |
| 60°-70°   | 11.2   | 2.7       |
| 70°-80°   | 7.0    | 1.7       |
| 80°-90°   | 2.2    | 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°    | 326.0  | 78.7      |
| 0°-40°    | 360.3  | 86.9      |
| 0°-60°    | 394.1  | 95.1      |
| 0°-90°    | 414.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 414.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1103 |      |
| 5°  | 970  | 85   |
| 15° | 506  | 142  |
| 25° | 218  | 99   |
| 35° | 49   | 34   |
| 45° | 27   | 20   |
| 55° | 16   | 14   |
| 65° | 11   | 11   |
| 75° | 7    | 7    |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1103.0 |
| 2.5°  | 1075.3 |
| 5°    | 970.5  |
| 7.5°  | 854.5  |
| 10°   | 735.9  |
| 12.5° | 610.4  |
| 15°   | 505.6  |
| 17.5° | 421.6  |
| 20°   | 355.0  |
| 22.5° | 290.0  |
| 25°   | 218.2  |
| 27.5° | 150.6  |
| 30°   | 95.2   |
| 32.5° | 64.1   |
| 35°   | 49.3   |
| 37.5° | 42.4   |
| 40°   | 37.2   |
| 42.5° | 32.9   |
| 45°   | 26.8   |
| 47.5° | 18.2   |
| 50°   | 16.4   |
| 52.5° | 16.4   |
| 55°   | 15.6   |
| 57.5° | 14.7   |
| 60°   | 13.9   |
| 62.5° | 12.1   |
| 65°   | 11.3   |
| 67.5° | 10.4   |
| 70°   | 8.7    |
| 72.5° | 7.8    |
| 75°   | 6.9    |
| 77.5° | 5.2    |
| 80°   | 4.3    |
| 82.5° | 3.5    |
| 85°   | 1.7    |
| 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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Scaled Data Report





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Scaled Data Report



— 0°-180°

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Scaled Data Report



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