

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: P885762

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1RDSL-340LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-131)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1RDSL-340LM-5000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

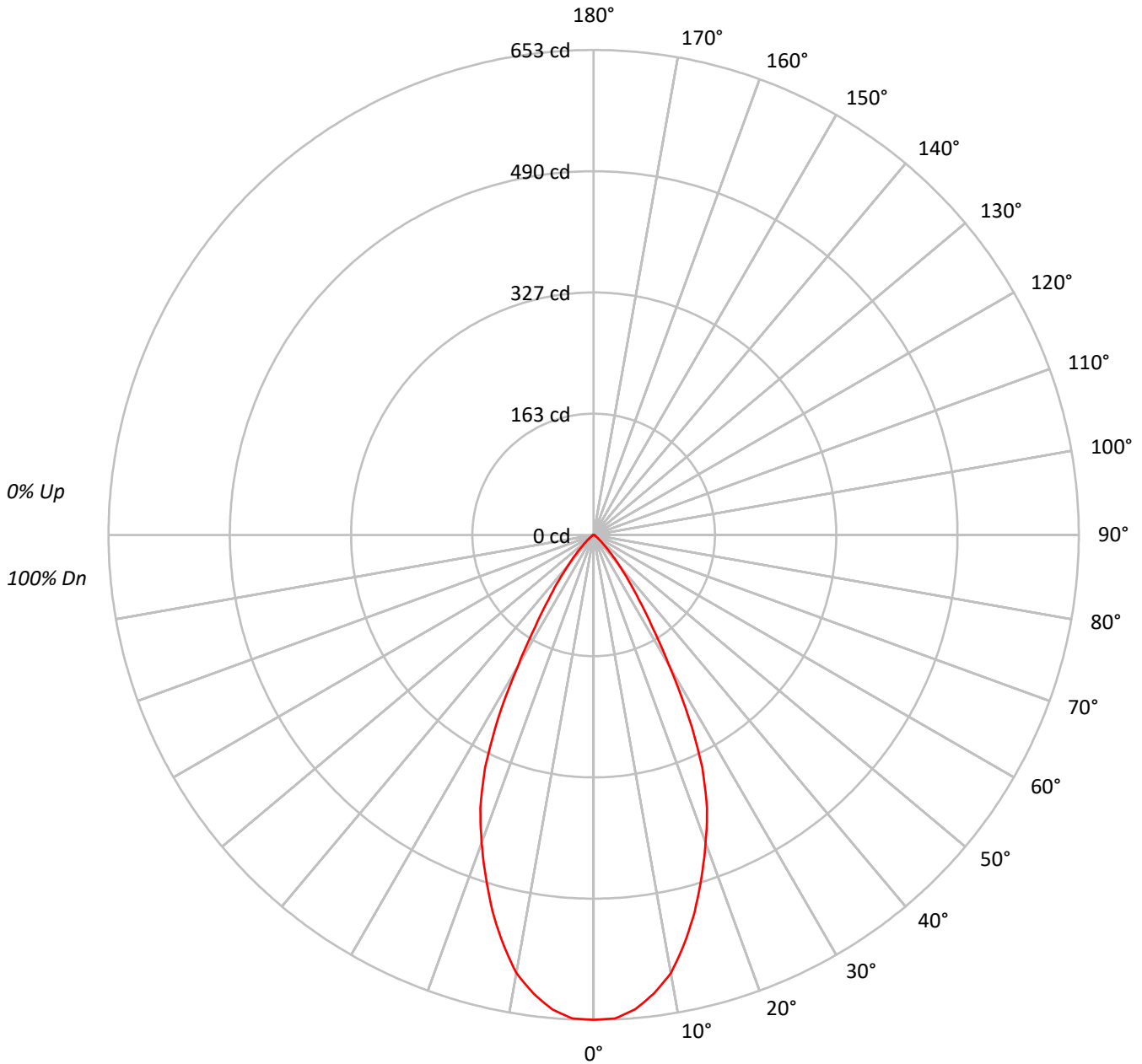
Lumens per Lamp: N/A
Luminaire Lumens: 455.7 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.77
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
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 | 81 | 76 | 92 | 85 | 80 | 76 | 83 | 79 | 75 | 82 | 78 | 75 | 80 | 77 | 74 | 73 | | | |
| 6 | 90 | 81 | 76 | 72 | 88 | 80 | 75 | 71 | 79 | 74 | 71 | 78 | 73 | 70 | 76 | 73 | 70 | 68 | | | |
| 7 | 86 | 77 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 69 | 66 | 73 | 69 | 66 | 65 | | | |
| 8 | 82 | 73 | 67 | 63 | 81 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 61 | | | |
| 9 | 78 | 69 | 63 | 60 | 77 | 69 | 63 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 58 | | | |
| 10 | 75 | 66 | 60 | 57 | 74 | 65 | 60 | 56 | 64 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 55 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1288525 |
| 5° | 1270269 |
| 10° | 1200388 |
| 15° | 1073068 |
| 20° | 925768 |
| 25° | 753001 |
| 30° | 464885 |
| 35° | 254176 |
| 40° | 136027 |
| 45° | 65310 |
| 50° | 32545 |
| 55° | 16172 |
| 60° | 9078 |
| 65° | 10741 |
| 70° | 6924 |
| 75° | 9150 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 65310 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.8 | 13.1 |
| 10°-20° | 145.9 | 32.0 |
| 20°-30° | 152.4 | 33.4 |
| 30°-40° | 69.9 | 15.3 |
| 40°-50° | 20.2 | 4.4 |
| 50°-60° | 4.8 | 1.1 |
| 60°-70° | 1.9 | 0.4 |
| 70°-80° | 0.8 | 0.2 |
| 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° | 358.1 | 78.6 |
| 0°-40° | 428.0 | 93.9 |
| 0°-60° | 453.0 | 99.4 |
| 0°-90° | 455.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 455.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 653 | |
| 5° | 641 | 60 |
| 15° | 525 | 146 |
| 25° | 346 | 152 |
| 35° | 106 | 70 |
| 45° | 23 | 20 |
| 55° | 5 | 5 |
| 65° | 2 | 2 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 652.9 |
| 2.5° | 651.8 |
| 5° | 641.2 |
| 7.5° | 622.5 |
| 10° | 599.0 |
| 12.5° | 563.8 |
| 15° | 525.2 |
| 17.5° | 483.0 |
| 20° | 440.8 |
| 22.5° | 398.6 |
| 25° | 345.8 |
| 27.5° | 277.8 |
| 30° | 204.0 |
| 32.5° | 146.5 |
| 35° | 105.5 |
| 37.5° | 76.2 |
| 40° | 52.8 |
| 42.5° | 36.3 |
| 45° | 23.4 |
| 47.5° | 15.2 |
| 50° | 10.6 |
| 52.5° | 7.0 |
| 55° | 4.7 |
| 57.5° | 3.5 |
| 60° | 2.3 |
| 62.5° | 2.3 |
| 65° | 2.3 |
| 67.5° | 1.2 |
| 70° | 1.2 |
| 72.5° | 1.2 |
| 75° | 1.2 |
| 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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