

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: P885749

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1RDMW-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-130)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1RDMW-340LM-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

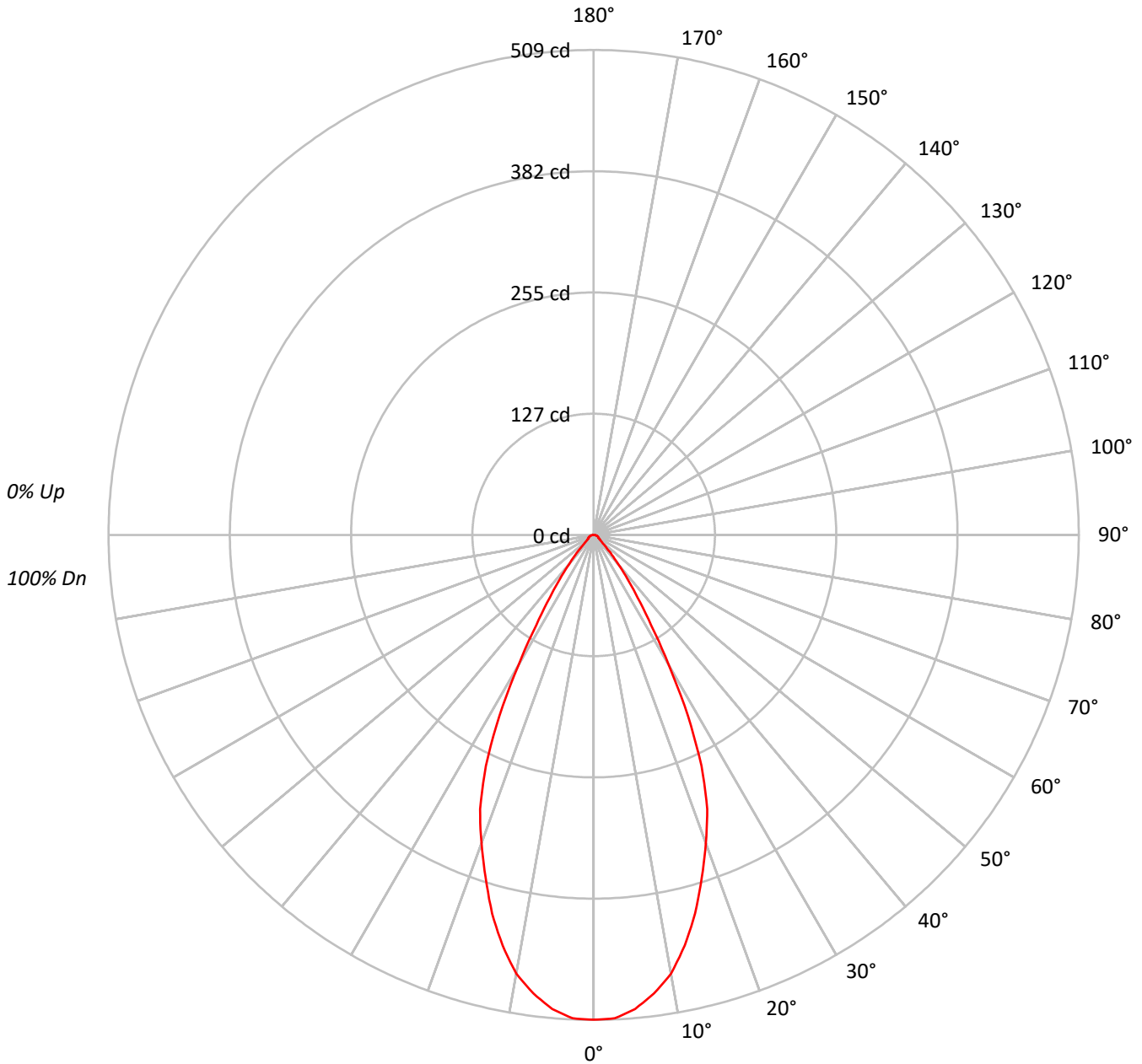
Lumens per Lamp: N/A
Luminaire Lumens: 365.1 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.77
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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 | | | | | | | | | |
| 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 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | | | | | | | | | | | | | | | | | |
| 2 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 | | | | | | | | | | | | | | | | | | | |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | 90 | 86 | 84 | 87 | 85 | 82 | 81 | | | | | | | | | | | | | | | | | | | |
| 4 | 98 | 90 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | | | | | | | | | | | | | | | | | | | |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 78 | 74 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 71 | | | | | | | | | | | | | | | | | | | |
| 6 | 88 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 67 | | | | | | | | | | | | | | | | | | | |
| 7 | 84 | 75 | 70 | 65 | 83 | 75 | 69 | 65 | 73 | 69 | 65 | 72 | 68 | 65 | 71 | 67 | 64 | 63 | | | | | | | | | | | | | | | | | | | |
| 8 | 81 | 71 | 66 | 62 | 79 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 9 | 77 | 68 | 62 | 58 | 76 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 65 | 60 | 57 | 56 | | | | | | | | | | | | | | | | | | | |
| 10 | 74 | 64 | 59 | 55 | 73 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 62 | 58 | 55 | 53 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1004138 |
| 5° | 989352 |
| 10° | 937064 |
| 15° | 840761 |
| 20° | 722889 |
| 25° | 582498 |
| 30° | 358007 |
| 35° | 193704 |
| 40° | 103566 |
| 45° | 52192 |
| 50° | 31624 |
| 55° | 25806 |
| 60° | 22104 |
| 65° | 26151 |
| 70° | 27120 |
| 75° | 28213 |
| 80° | 21594 |
| 85° | 20379 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 52192 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.6 | 12.8 |
| 10°-20° | 114.1 | 31.2 |
| 20°-30° | 118.2 | 32.4 |
| 30°-40° | 53.5 | 14.6 |
| 40°-50° | 16.2 | 4.4 |
| 50°-60° | 6.8 | 1.9 |
| 60°-70° | 5.2 | 1.4 |
| 70°-80° | 3.6 | 1.0 |
| 80°-90° | 1.0 | 0.3 |
| 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° | 278.9 | 76.4 |
| 0°-40° | 332.4 | 91.0 |
| 0°-60° | 355.3 | 97.3 |
| 0°-90° | 365.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 365.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 509 | |
| 5° | 499 | 47 |
| 15° | 412 | 114 |
| 25° | 268 | 118 |
| 35° | 80 | 53 |
| 45° | 19 | 16 |
| 55° | 8 | 7 |
| 65° | 6 | 5 |
| 75° | 4 | 4 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 508.8 |
| 2.5° | 507.8 |
| 5° | 499.4 |
| 7.5° | 485.4 |
| 10° | 467.6 |
| 12.5° | 441.4 |
| 15° | 411.5 |
| 17.5° | 376.9 |
| 20° | 344.2 |
| 22.5° | 311.4 |
| 25° | 267.5 |
| 27.5° | 214.2 |
| 30° | 157.1 |
| 32.5° | 112.2 |
| 35° | 80.4 |
| 37.5° | 58.0 |
| 40° | 40.2 |
| 42.5° | 28.1 |
| 45° | 18.7 |
| 47.5° | 13.1 |
| 50° | 10.3 |
| 52.5° | 8.4 |
| 55° | 7.5 |
| 57.5° | 6.5 |
| 60° | 5.6 |
| 62.5° | 5.6 |
| 65° | 5.6 |
| 67.5° | 4.7 |
| 70° | 4.7 |
| 72.5° | 3.7 |
| 75° | 3.7 |
| 77.5° | 2.8 |
| 80° | 1.9 |
| 82.5° | 1.9 |
| 85° | 0.9 |
| 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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Scaled Data Report



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