

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P641028

Luminaire Tested: ML5612LSNFL2597FS1E - 594TBZB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 594TBZB - 600LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

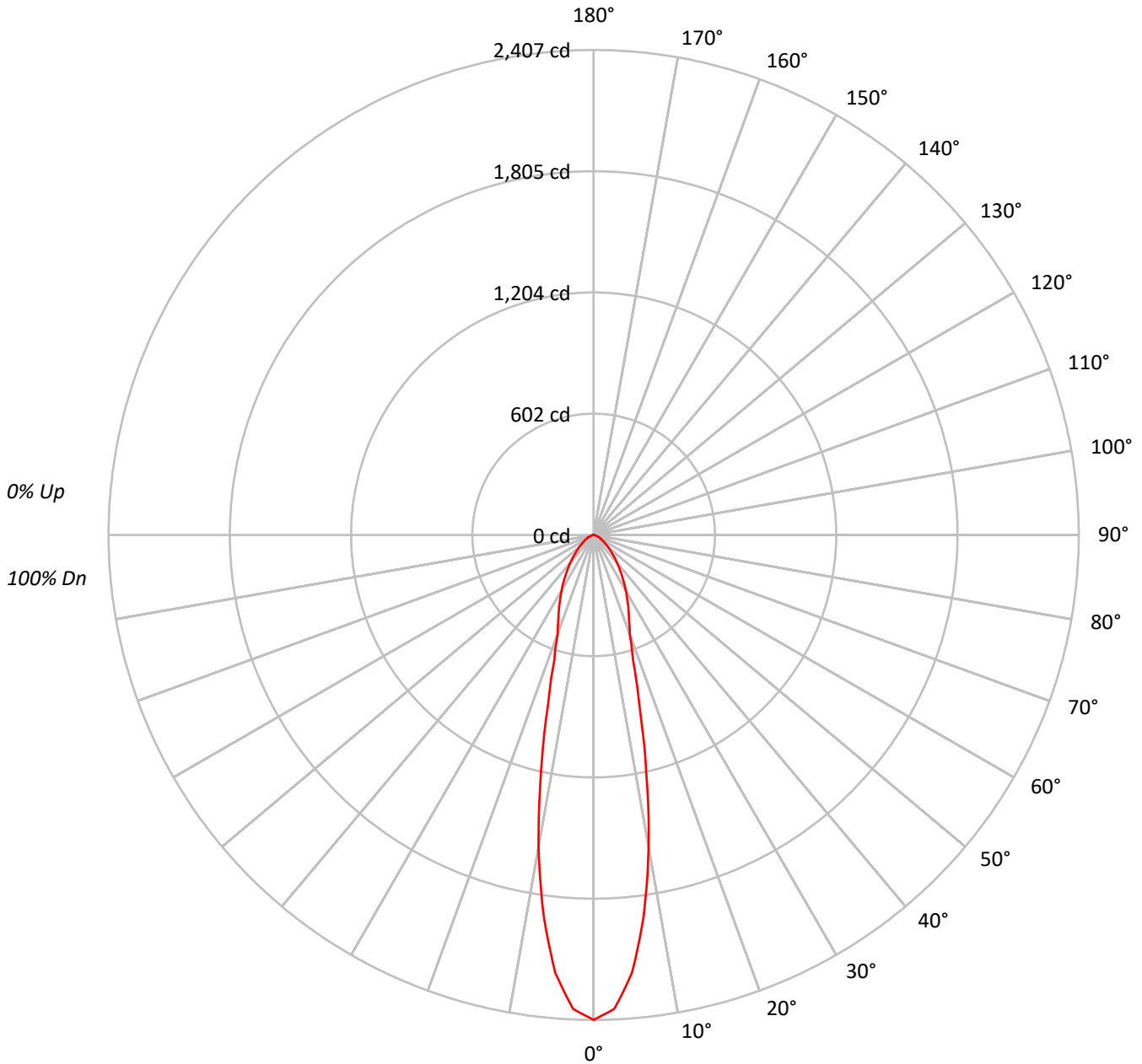
Lumens per Lamp: N/A
Luminaire Lumens: 983.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | | 100 | 99 | 97 | | 97 | 95 | 94 | 92 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | | 94 | 91 | 89 | | 91 | 89 | 87 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | | 88 | 84 | 81 | | 85 | 83 | 80 | 78 |
| 4 | 96 | 88 | 82 | 77 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | | 82 | 78 | 75 | | 81 | 77 | 74 | 73 |
| 5 | 91 | 82 | 76 | 72 | 89 | 81 | 76 | 71 | 79 | 74 | 71 | | 78 | 73 | 70 | | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 71 | 67 | 85 | 76 | 71 | 66 | 75 | 70 | 66 | | 73 | 69 | 65 | | 72 | 68 | 65 | 64 |
| 7 | 82 | 73 | 67 | 62 | 81 | 72 | 66 | 62 | 71 | 66 | 62 | | 70 | 65 | 62 | | 69 | 64 | 61 | 60 |
| 8 | 79 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 58 | | 66 | 62 | 58 | | 65 | 61 | 58 | 57 |
| 9 | 75 | 66 | 60 | 56 | 74 | 65 | 59 | 56 | 64 | 59 | 55 | | 63 | 59 | 55 | | 62 | 58 | 55 | 54 |
| 10 | 72 | 62 | 57 | 53 | 71 | 62 | 57 | 53 | 61 | 56 | 53 | | 60 | 56 | 52 | | 60 | 55 | 52 | 51 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|-----|--------|
| 0° | 190034 |
| 5° | 172891 |
| 10° | 126146 |
| 15° | 71575 |
| 20° | 43995 |
| 25° | 35520 |
| 30° | 28987 |
| 35° | 23369 |
| 40° | 18508 |
| 45° | 14535 |
| 50° | 11360 |
| 55° | 8905 |
| 60° | 7089 |
| 65° | 5865 |
| 70° | 4155 |
| 75° | 2196 |
| 80° | 1637 |
| 85° | 815 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14535 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 188.4 | 19.2 |
| 10°-20° | 252.4 | 25.7 |
| 20°-30° | 188.1 | 19.1 |
| 30°-40° | 152.2 | 15.5 |
| 40°-50° | 101.8 | 10.4 |
| 50°-60° | 58.9 | 6.0 |
| 60°-70° | 31.0 | 3.2 |
| 70°-80° | 9.0 | 0.9 |
| 80°-90° | 1.2 | 0.1 |
| 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° | 628.8 | 64.0 |
| 0°-40° | 781.0 | 79.5 |
| 0°-60° | 941.7 | 95.8 |
| 0°-90° | 983.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 983.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2407 | |
| 5° | 2182 | 188 |
| 15° | 876 | 252 |
| 25° | 408 | 188 |
| 35° | 242 | 152 |
| 45° | 130 | 102 |
| 55° | 65 | 59 |
| 65° | 31 | 31 |
| 75° | 7 | 9 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2407.3 |
| 2.5° | 2354.3 |
| 5° | 2181.8 |
| 7.5° | 1904.3 |
| 10° | 1573.7 |
| 12.5° | 1206.3 |
| 15° | 875.8 |
| 17.5° | 649.4 |
| 20° | 523.7 |
| 22.5° | 458.1 |
| 25° | 407.8 |
| 27.5° | 362.0 |
| 30° | 318.0 |
| 32.5° | 279.4 |
| 35° | 242.5 |
| 37.5° | 209.3 |
| 40° | 179.6 |
| 42.5° | 153.6 |
| 45° | 130.2 |
| 47.5° | 110.5 |
| 50° | 92.5 |
| 52.5° | 77.2 |
| 55° | 64.7 |
| 57.5° | 53.9 |
| 60° | 44.9 |
| 62.5° | 37.7 |
| 65° | 31.4 |
| 67.5° | 25.2 |
| 70° | 18.0 |
| 72.5° | 11.7 |
| 75° | 7.2 |
| 77.5° | 4.5 |
| 80° | 3.6 |
| 82.5° | 1.8 |
| 85° | 0.9 |
| 87.5° | 0.0 |
| 90° | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)