

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: P641127

Luminaire Tested: ML5612LSNFL2597FS1E - 693BB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693BB - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

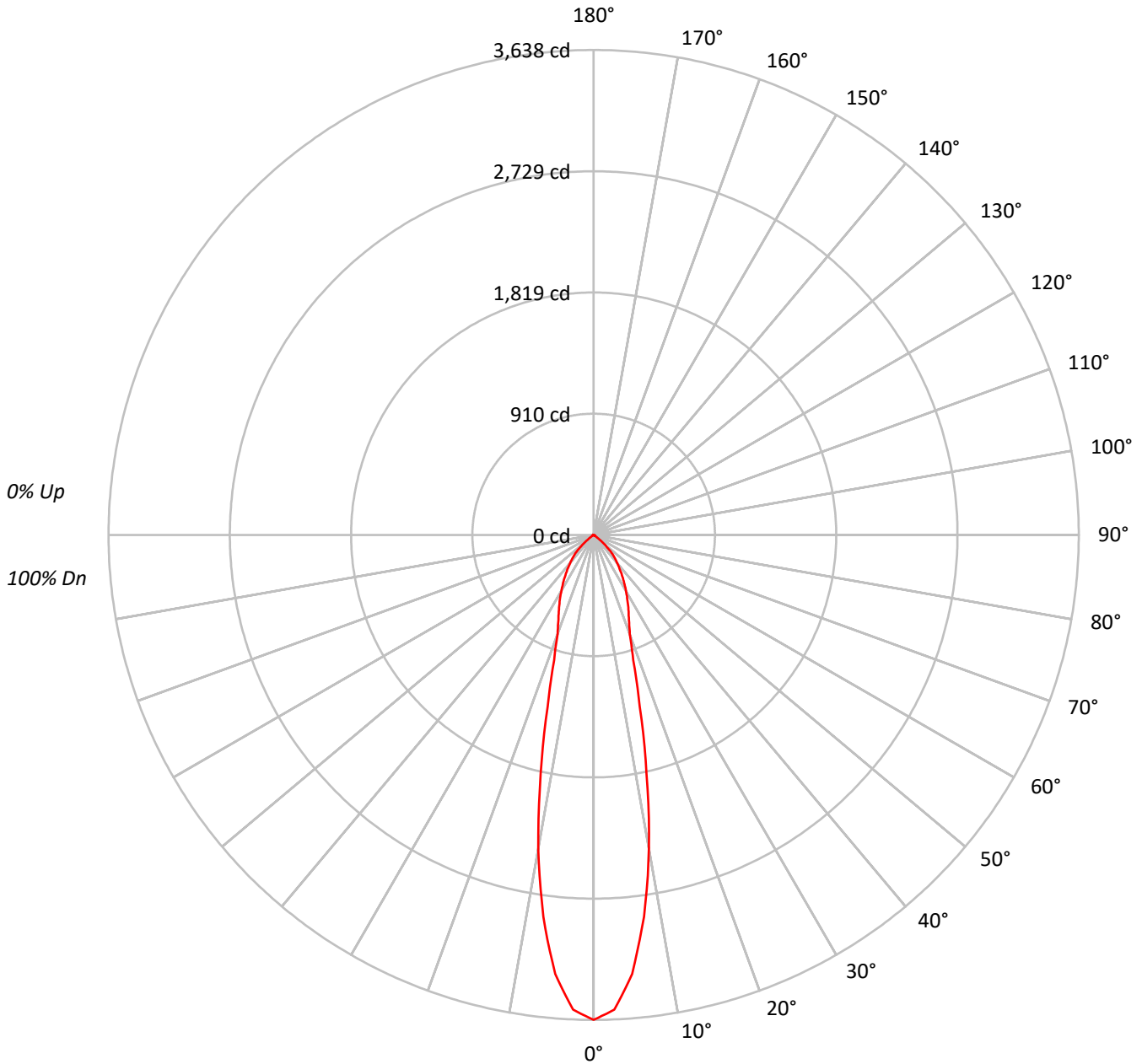
Lumens per Lamp: N/A
Luminaire Lumens: 1356.5 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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



TEST NUMBER: P641127
CATALOG NUMBER: ML5612LSNFL2597FS1E - 693BB - 1200LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641127

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693BB - 1200LM - 3000K

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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | | | | | | | | | | | | | | | | | |
| 2 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 93 | 91 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 3 | 103 | 97 | 92 | 89 | 101 | 96 | 92 | 88 | 93 | 90 | 87 | 91 | 88 | 85 | 89 | 86 | 84 | 82 | | | | | | | | | | | | | | | | | | | |
| 4 | 98 | 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 | 90 | 81 | 76 | 72 | 88 | 80 | 75 | 71 | 79 | 74 | 71 | 78 | 74 | 70 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |
| 7 | 86 | 77 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 65 | | | | | | | | | | | | | | | | | | | |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 67 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 62 | | | | | | | | | | | | | | | | | | | |
| 9 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 67 | 63 | 60 | 59 | | | | | | | | | | | | | | | | | | | |
| 10 | 76 | 67 | 61 | 58 | 75 | 66 | 61 | 57 | 65 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 56 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 199414 |
| 5° | 181922 |
| 10° | 133025 |
| 15° | 75681 |
| 20° | 46076 |
| 25° | 37327 |
| 30° | 30631 |
| 35° | 24741 |
| 40° | 19551 |
| 45° | 14862 |
| 50° | 7539 |
| 55° | 1692 |
| 60° | 1042 |
| 65° | 532 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14862 cd/sqm



TEST NUMBER: P641127

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693BB - 1200LM - 3000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 285.6 | 21.1 |
| 10°-20° | 383.2 | 28.2 |
| 20°-30° | 284.2 | 21.0 |
| 30°-40° | 231.9 | 17.1 |
| 40°-50° | 141.7 | 10.4 |
| 50°-60° | 25.6 | 1.9 |
| 60°-70° | 4.2 | 0.3 |
| 70°-80° | 0.0 | 0.0 |
| 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° | 953.0 | 70.3 |
| 0°-40° | 1184.9 | 87.4 |
| 0°-60° | 1352.3 | 99.7 |
| 0°-90° | 1356.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1356.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3638 | |
| 5° | 3306 | 286 |
| 15° | 1334 | 383 |
| 25° | 617 | 284 |
| 35° | 370 | 232 |
| 45° | 192 | 142 |
| 55° | 18 | 26 |
| 65° | 4 | 4 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P641127
CATALOG NUMBER: ML5612LSNFL2597FS1E - 693BB - 1200LM - 3000K

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3637.6 |
| 2.5° | 3564.2 |
| 5° | 3305.9 |
| 7.5° | 2888.6 |
| 10° | 2389.7 |
| 12.5° | 1833.7 |
| 15° | 1333.5 |
| 17.5° | 984.2 |
| 20° | 789.8 |
| 22.5° | 689.2 |
| 25° | 617.1 |
| 27.5° | 547.8 |
| 30° | 483.9 |
| 32.5° | 425.5 |
| 35° | 369.7 |
| 37.5° | 319.4 |
| 40° | 273.2 |
| 42.5° | 232.4 |
| 45° | 191.7 |
| 47.5° | 137.3 |
| 50° | 88.4 |
| 52.5° | 38.1 |
| 55° | 17.7 |
| 57.5° | 12.2 |
| 60° | 9.5 |
| 62.5° | 6.8 |
| 65° | 4.1 |
| 67.5° | 1.4 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)