

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: P886474

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2RDSLb-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2RDSL B-400LM-3500K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 429.1 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

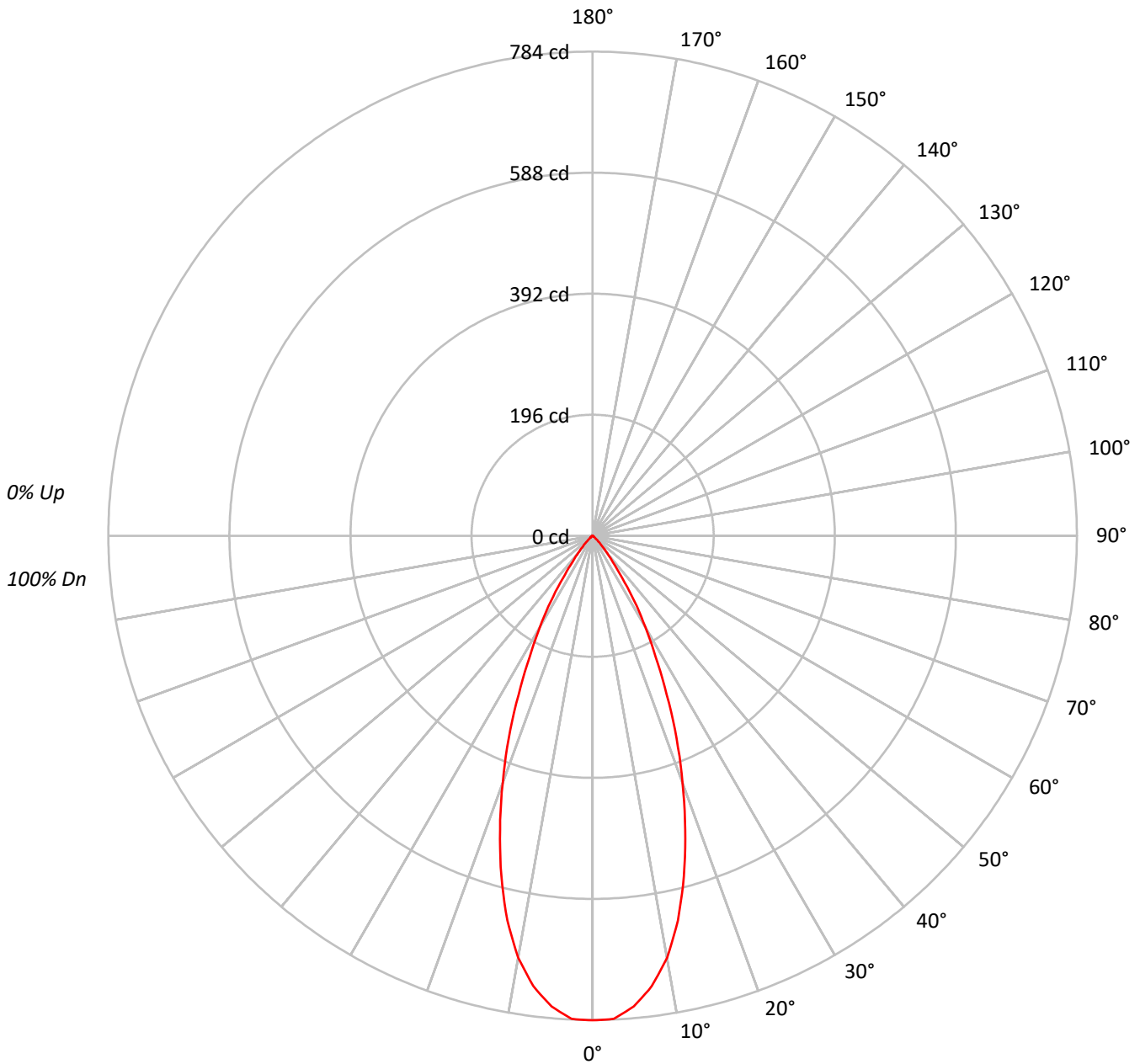
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: ML204LSFLD2W1E-TIR1D40FL-TL2RDSLB-400LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886474

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D40FL-TL2RDSLB-400LM-3500K

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 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | | 102 | 100 | 99 | | 98 | 97 | 96 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | | 97 | 95 | 93 | | 94 | 93 | 91 | 89 |
| 3 | 104 | 99 | 94 | 91 | 103 | 97 | 93 | 90 | 95 | 91 | 89 | | 92 | 90 | 87 | | 90 | 88 | 86 | 84 |
| 4 | 100 | 93 | 88 | 85 | 98 | 92 | 88 | 84 | 90 | 86 | 83 | | 88 | 85 | 82 | | 86 | 84 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 83 | 79 | 86 | 81 | 78 | | 84 | 80 | 78 | | 83 | 79 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 90 | 83 | 78 | 74 | 82 | 77 | 74 | | 80 | 76 | 73 | | 79 | 76 | 73 | 72 |
| 7 | 88 | 80 | 74 | 71 | 87 | 79 | 74 | 70 | 78 | 73 | 70 | | 77 | 73 | 70 | | 76 | 72 | 69 | 68 |
| 8 | 84 | 76 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 67 | | 73 | 69 | 66 | | 72 | 69 | 66 | 65 |
| 9 | 81 | 72 | 67 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 63 | | 70 | 66 | 63 | | 69 | 66 | 63 | 62 |
| 10 | 78 | 69 | 64 | 61 | 77 | 69 | 64 | 61 | 68 | 64 | 60 | | 67 | 63 | 60 | | 67 | 63 | 60 | 59 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 387056 |
| 5° | 378877 |
| 10° | 347487 |
| 15° | 291607 |
| 20° | 223564 |
| 25° | 154387 |
| 30° | 97021 |
| 35° | 49991 |
| 40° | 23251 |
| 45° | 9071 |
| 50° | 3915 |
| 55° | 1892 |
| 60° | 1381 |
| 65° | 817 |
| 70° | 1010 |
| 75° | 1334 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9071 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.8 | 16.5 |
| 10°-20° | 156.7 | 36.5 |
| 20°-30° | 130.4 | 30.4 |
| 30°-40° | 55.8 | 13.0 |
| 40°-50° | 11.9 | 2.8 |
| 50°-60° | 2.3 | 0.5 |
| 60°-70° | 0.8 | 0.2 |
| 70°-80° | 0.5 | 0.1 |
| 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° | 357.9 | 83.4 |
| 0°-40° | 413.7 | 96.4 |
| 0°-60° | 427.9 | 99.7 |
| 0°-90° | 429.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 429.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 784 | |
| 5° | 765 | 71 |
| 15° | 571 | 157 |
| 25° | 284 | 130 |
| 35° | 83 | 56 |
| 45° | 13 | 12 |
| 55° | 2 | 2 |
| 65° | 1 | 1 |
| 75° | 1 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 784.5 |
| 2.5° | 783.1 |
| 5° | 765.0 |
| 7.5° | 735.4 |
| 10° | 693.6 |
| 12.5° | 638.0 |
| 15° | 570.9 |
| 17.5° | 498.7 |
| 20° | 425.8 |
| 22.5° | 355.1 |
| 25° | 283.6 |
| 27.5° | 220.8 |
| 30° | 170.3 |
| 32.5° | 126.3 |
| 35° | 83.0 |
| 37.5° | 53.4 |
| 40° | 36.1 |
| 42.5° | 23.1 |
| 45° | 13.0 |
| 47.5° | 6.5 |
| 50° | 5.1 |
| 52.5° | 3.6 |
| 55° | 2.2 |
| 57.5° | 1.4 |
| 60° | 1.4 |
| 62.5° | 0.7 |
| 65° | 0.7 |
| 67.5° | 0.7 |
| 70° | 0.7 |
| 72.5° | 0.7 |
| 75° | 0.7 |
| 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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