

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: SHAPER

Report Number: P702139

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9024-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-35-D010 / 340-EU4C-3040-9024-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

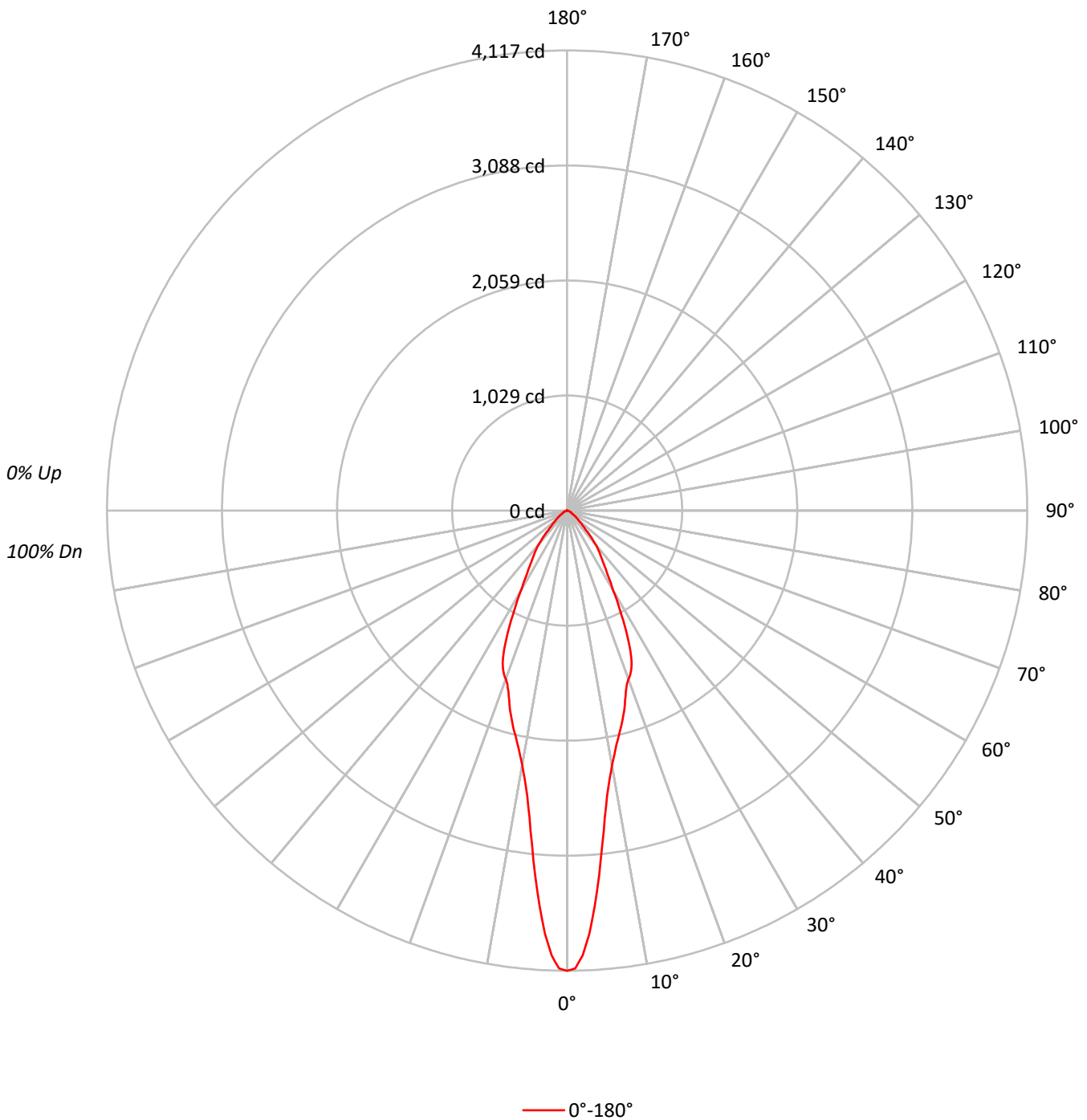
Lumens per Lamp: N/A
Luminaire Lumens: 2058.5 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V): 120
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | | 100 | 99 | 97 | | 97 | 96 | 94 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | | 94 | 91 | 89 | | 91 | 89 | 87 | 85 |
| 3 | 101 | 95 | 89 | 85 | 99 | 93 | 88 | 85 | 91 | 87 | 83 | | 88 | 85 | 82 | | 86 | 83 | 81 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 82 | 78 | 85 | 80 | 77 | | 83 | 79 | 76 | | 81 | 78 | 75 | 73 |
| 5 | 91 | 82 | 76 | 72 | 89 | 82 | 76 | 72 | 80 | 75 | 71 | | 78 | 74 | 70 | | 76 | 73 | 70 | 68 |
| 6 | 87 | 77 | 71 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 66 | | 74 | 69 | 66 | | 72 | 68 | 65 | 64 |
| 7 | 82 | 73 | 67 | 62 | 81 | 72 | 66 | 62 | 71 | 66 | 62 | | 70 | 65 | 61 | | 68 | 64 | 61 | 60 |
| 8 | 78 | 69 | 63 | 58 | 77 | 68 | 62 | 58 | 67 | 62 | 58 | | 66 | 61 | 58 | | 65 | 61 | 57 | 56 |
| 9 | 75 | 65 | 59 | 55 | 74 | 64 | 59 | 55 | 63 | 58 | 55 | | 63 | 58 | 54 | | 62 | 57 | 54 | 53 |
| 10 | 71 | 62 | 56 | 52 | 70 | 61 | 55 | 52 | 60 | 55 | 52 | | 59 | 55 | 51 | | 59 | 54 | 51 | 50 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 477537 |
| 5° | 381436 |
| 10° | 272620 |
| 15° | 231132 |
| 20° | 198125 |
| 25° | 167709 |
| 30° | 110221 |
| 35° | 78653 |
| 40° | 60078 |
| 45° | 35331 |
| 50° | 23313 |
| 55° | 16965 |
| 60° | 11042 |
| 65° | 9962 |
| 70° | 8444 |
| 75° | 6094 |
| 80° | 4542 |
| 85° | 3061 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35331 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 278.5 | 13.5 |
| 10°-20° | 535.3 | 26.0 |
| 20°-30° | 578.2 | 28.1 |
| 30°-40° | 357.1 | 17.3 |
| 40°-50° | 178.9 | 8.7 |
| 50°-60° | 75.0 | 3.6 |
| 60°-70° | 35.3 | 1.7 |
| 70°-80° | 15.5 | 0.8 |
| 80°-90° | 3.4 | 0.2 |
| 90°-100° | 0.3 | 0.0 |
| 100°-110° | 0.9 | 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° | 1392.0 | 67.6 |
| 0°-40° | 1749.2 | 85.0 |
| 0°-60° | 2003.1 | 97.3 |
| 0°-90° | 2057.3 | 99.9 |
| 90°-120° | 1.2 | 0.1 |
| 90°-150° | 1.2 | 0.1 |
| 90°-180° | 1.0 | 0.0 |
| 0°-180° | 2058.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 4117 | |
| 5° | 3276 | 279 |
| 15° | 1925 | 535 |
| 25° | 1310 | 578 |
| 35° | 556 | 357 |
| 45° | 215 | 179 |
| 55° | 84 | 75 |
| 65° | 36 | 35 |
| 75° | 14 | 16 |
| 85° | 2 | 3 |
| 90° | 0 | 0 |
| 95° | 0 | 1 |
| 105° | 0 | 1 |
| 115° | 0 | 0 |
| 125° | 0 | 0 |
| 135° | 0 | 0 |
| 145° | 0 | 0 |
| 155° | 0 | 0 |
| 165° | 0 | 0 |
| 175° | 0 | 0 |
| 180° | 0 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 4117.3 |
| 1° | 4096.9 |
| 2° | 3981.3 |
| 3° | 3790.8 |
| 4° | 3543.7 |
| 5° | 3276.2 |
| 6° | 3008.6 |
| 7° | 2766.0 |
| 8° | 2573.3 |
| 9° | 2428.2 |
| 10° | 2314.8 |
| 11° | 2217.4 |
| 12° | 2133.5 |
| 13° | 2060.9 |
| 14° | 1995.2 |
| 15° | 1924.9 |
| 16° | 1854.6 |
| 17° | 1775.2 |
| 18° | 1702.7 |
| 19° | 1643.7 |
| 20° | 1605.2 |
| 21° | 1573.5 |
| 22° | 1532.7 |
| 23° | 1476.0 |
| 24° | 1398.9 |
| 25° | 1310.5 |
| 27.5° | 1054.3 |
| 30° | 823.0 |
| 32.5° | 664.3 |
| 35° | 555.5 |
| 37.5° | 476.1 |
| 40° | 396.8 |
| 42.5° | 297.0 |
| 45° | 215.4 |
| 47.5° | 163.2 |
| 50° | 129.2 |
| 52.5° | 106.6 |
| 55° | 83.9 |
| 57.5° | 58.9 |
| 60° | 47.6 |
| 62.5° | 40.8 |
| 65° | 36.3 |
| 67.5° | 29.5 |
| 70° | 24.9 |
| 72.5° | 18.1 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 75° | 13.6 |
| 77.5° | 11.3 |
| 80° | 6.8 |
| 82.5° | 4.5 |
| 85° | 2.3 |
| 87.5° | 2.3 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 2.3 |
| 102.5° | 2.3 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 0.0 |
| 120° | 0.0 |
| 122.5° | 0.0 |
| 125° | 0.0 |
| 127.5° | 0.0 |
| 130° | 0.0 |
| 132.5° | 0.0 |
| 135° | 0.0 |
| 137.5° | 0.0 |
| 140° | 0.0 |
| 142.5° | 0.0 |
| 145° | 0.0 |
| 147.5° | 0.0 |
| 150° | 0.0 |
| 152.5° | 0.0 |
| 155° | 0.0 |
| 157.5° | 0.0 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

(END OF REPORT)