

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: P702616

Luminaire Tested: 340-6C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-12)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-CF
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

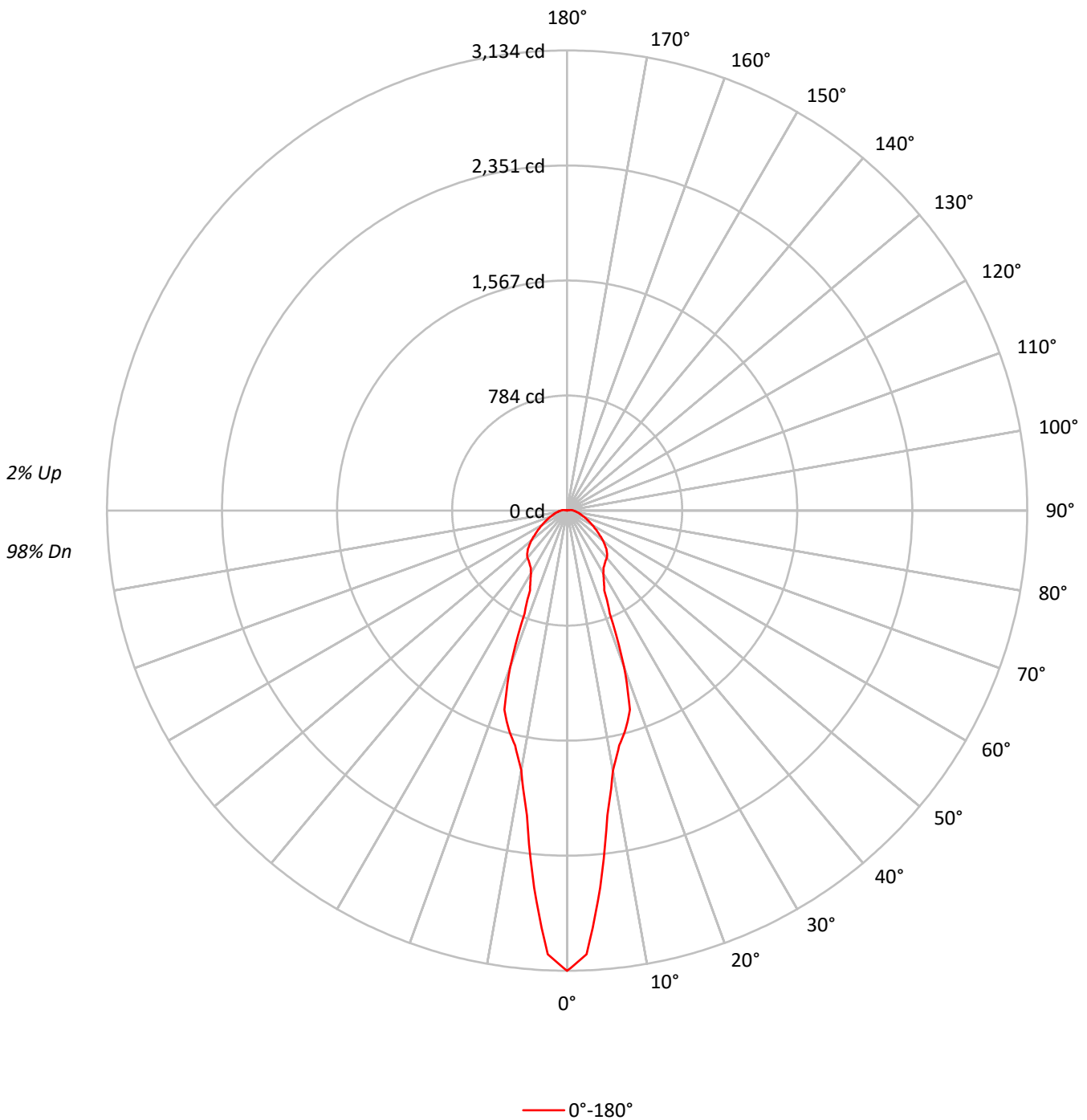
Lumens per Lamp: N/A
Luminaire Lumens: 2106.7 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.55
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 31.6
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 | 110 | 110 | 110 | | 105 | 105 | 105 | | 100 | 100 | 100 | 98 |
| 1 | 109 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | | 94 | 92 | 90 | | 90 | 88 | 87 | 84 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 88 | 84 | 80 | | 85 | 81 | 78 | | 82 | 79 | 76 | 74 |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 72 | 80 | 75 | 70 | | 77 | 73 | 69 | | 75 | 71 | 67 | 65 |
| 4 | 88 | 77 | 70 | 64 | 85 | 76 | 69 | 64 | 73 | 67 | 63 | | 71 | 66 | 62 | | 69 | 64 | 61 | 59 |
| 5 | 82 | 71 | 63 | 58 | 80 | 70 | 63 | 57 | 68 | 61 | 56 | | 66 | 60 | 56 | | 64 | 59 | 55 | 53 |
| 6 | 77 | 66 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 52 | | 61 | 55 | 51 | | 59 | 54 | 50 | 49 |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 58 | 52 | 47 | | 57 | 51 | 47 | | 55 | 50 | 47 | 45 |
| 8 | 69 | 57 | 50 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 44 | | 53 | 48 | 44 | | 52 | 47 | 43 | 42 |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | | 50 | 45 | 41 | | 49 | 44 | 40 | 39 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | | 48 | 42 | 38 | | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 204497 |
| 5° | 150886 |
| 10° | 95950 |
| 15° | 76258 |
| 20° | 52583 |
| 25° | 26438 |
| 30° | 20816 |
| 35° | 18141 |
| 40° | 16721 |
| 45° | 14821 |
| 50° | 12327 |
| 55° | 9769 |
| 60° | 7746 |
| 65° | 6129 |
| 70° | 4796 |
| 75° | 3829 |
| 80° | 3143 |
| 85° | 2529 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14821 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 219.5 | 10.4 |
| 10°-20° | 421.5 | 20.0 |
| 20°-30° | 306.1 | 14.5 |
| 30°-40° | 280.8 | 13.3 |
| 40°-50° | 289.7 | 13.7 |
| 50°-60° | 227.6 | 10.8 |
| 60°-70° | 154.8 | 7.3 |
| 70°-80° | 99.1 | 4.7 |
| 80°-90° | 61.3 | 2.9 |
| 90°-100° | 35.5 | 1.7 |
| 100°-110° | 10.7 | 0.5 |
| 110°-120° | 0.3 | 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° | 947.0 | 45.0 |
| 0°-40° | 1227.8 | 58.3 |
| 0°-60° | 1745.1 | 82.8 |
| 0°-90° | 2060.2 | 97.8 |
| 90°-120° | 46.5 | 2.2 |
| 90°-150° | 46.5 | 2.2 |
| 90°-180° | 46.0 | 2.2 |
| 0°-180° | 2106.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 3134 | |
| 5° | 2578 | 219 |
| 15° | 1540 | 421 |
| 25° | 600 | 306 |
| 35° | 445 | 281 |
| 45° | 379 | 290 |
| 55° | 253 | 228 |
| 65° | 156 | 155 |
| 75° | 92 | 99 |
| 85° | 56 | 49 |
| 90° | 41 | 23 |
| 95° | 34 | 24 |
| 105° | 10 | 11 |
| 115° | 0 | 0 |
| 125° | 0 | 0 |
| 135° | 0 | 0 |
| 145° | 0 | 0 |
| 155° | 0 | 0 |
| 165° | 0 | 0 |
| 175° | 0 | 0 |
| 180° | 0 | 0 |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 3134.5 |
| 2.5° | 3025.2 |
| 5° | 2578.1 |
| 7.5° | 2094.5 |
| 10° | 1795.7 |
| 12.5° | 1637.7 |
| 15° | 1540.5 |
| 17.5° | 1421.5 |
| 20° | 1132.3 |
| 22.5° | 758.1 |
| 25° | 600.2 |
| 27.5° | 539.4 |
| 30° | 493.3 |
| 32.5° | 461.7 |
| 35° | 444.7 |
| 37.5° | 430.1 |
| 40° | 420.4 |
| 42.5° | 403.4 |
| 45° | 379.1 |
| 47.5° | 349.9 |
| 50° | 318.3 |
| 52.5° | 284.3 |
| 55° | 252.7 |
| 57.5° | 223.5 |
| 60° | 199.2 |
| 62.5° | 175.0 |
| 65° | 155.5 |
| 67.5° | 136.1 |
| 70° | 119.1 |
| 72.5° | 104.5 |
| 75° | 92.3 |
| 77.5° | 82.6 |
| 80° | 72.9 |
| 82.5° | 63.2 |
| 85° | 55.9 |
| 87.5° | 48.6 |
| 90° | 41.3 |
| 92.5° | 38.9 |
| 95° | 34.0 |
| 97.5° | 26.7 |
| 100° | 19.4 |
| 102.5° | 14.6 |
| 105° | 9.7 |
| 107.5° | 4.9 |
| 110° | 2.4 |

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CANDELA DISTRIBUTION (continued):

| | 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)