

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: P702368

Luminaire Tested: 340-6C-10-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-15)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-10-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

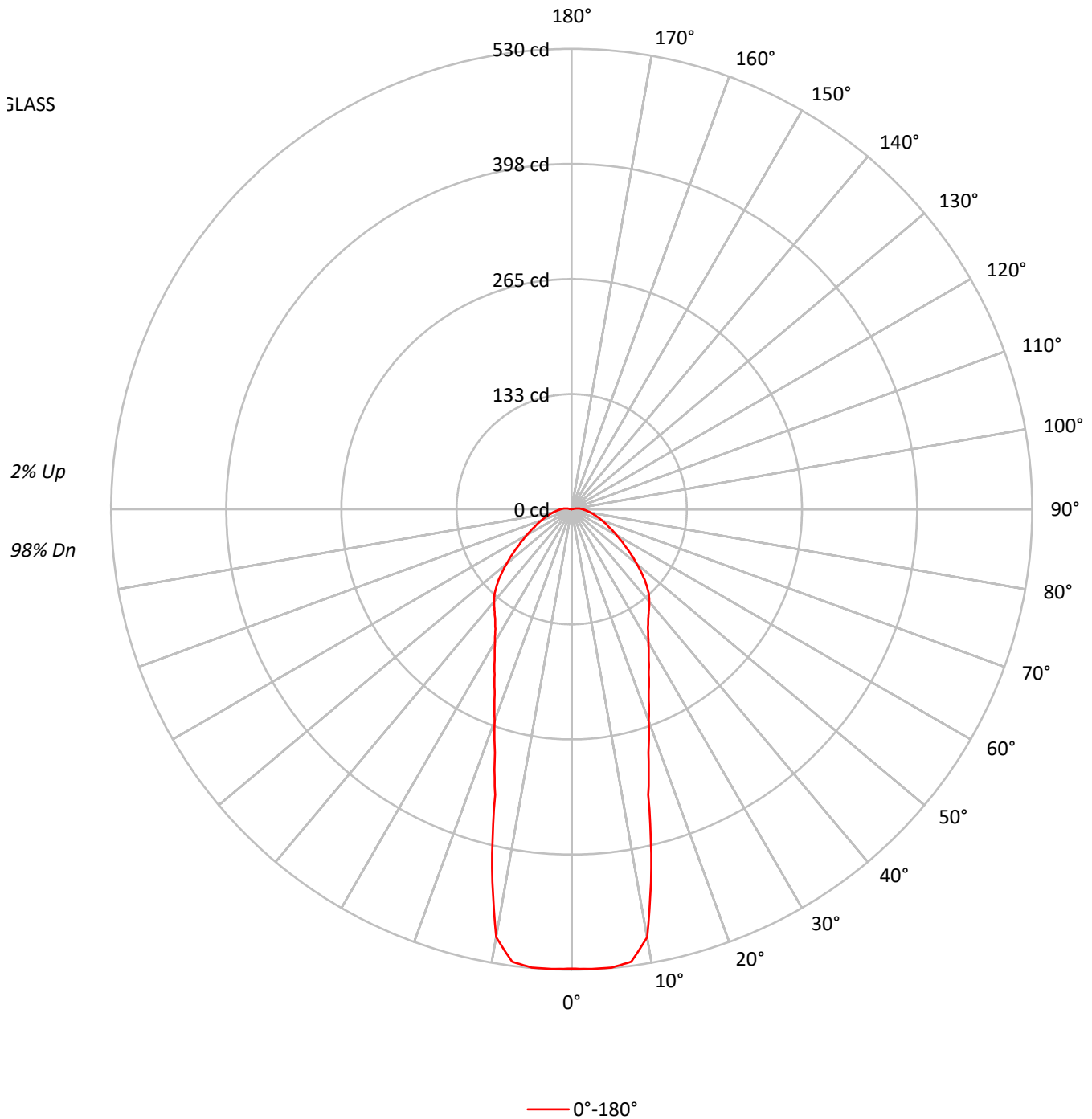
Lumens per Lamp: N/A
Luminaire Lumens: 611.1 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.74
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 9.8
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 | 97 | 106 | 102 | 99 | 96 | 98 | 95 | 92 | | 94 | 91 | 89 | | 90 | 88 | 86 | 84 |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | | 84 | 80 | 77 | | 81 | 78 | 75 | 73 |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 73 | 69 | | 76 | 71 | 67 | | 73 | 69 | 66 | 64 |
| 4 | 86 | 76 | 68 | 62 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | | 69 | 64 | 60 | | 67 | 62 | 59 | 57 |
| 5 | 81 | 69 | 61 | 55 | 78 | 68 | 60 | 55 | 66 | 59 | 54 | | 64 | 58 | 53 | | 62 | 57 | 53 | 51 |
| 6 | 75 | 63 | 55 | 50 | 73 | 62 | 55 | 49 | 60 | 54 | 49 | | 59 | 53 | 48 | | 57 | 52 | 48 | 46 |
| 7 | 71 | 58 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 49 | 44 | | 54 | 49 | 44 | | 53 | 48 | 44 | 42 |
| 8 | 66 | 54 | 47 | 41 | 65 | 54 | 46 | 41 | 52 | 46 | 41 | | 51 | 45 | 41 | | 50 | 44 | 40 | 38 |
| 9 | 63 | 51 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 42 | 38 | | 48 | 42 | 37 | | 47 | 41 | 37 | 36 |
| 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 35 | 46 | 39 | 35 | | 45 | 39 | 35 | | 44 | 38 | 35 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 34499 |
| 5° | 30989 |
| 10° | 26733 |
| 15° | 16856 |
| 20° | 12037 |
| 25° | 9241 |
| 30° | 7448 |
| 35° | 6266 |
| 40° | 5529 |
| 45° | 4726 |
| 50° | 3795 |
| 55° | 2953 |
| 60° | 2325 |
| 65° | 1837 |
| 70° | 1482 |
| 75° | 1182 |
| 80° | 957 |
| 85° | 756 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4726 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.8 | 8.1 |
| 10°-20° | 98.3 | 16.1 |
| 20°-30° | 97.4 | 15.9 |
| 30°-40° | 97.0 | 15.9 |
| 40°-50° | 92.6 | 15.2 |
| 50°-60° | 69.1 | 11.3 |
| 60°-70° | 46.9 | 7.7 |
| 70°-80° | 30.5 | 5.0 |
| 80°-90° | 18.6 | 3.0 |
| 90°-100° | 9.7 | 1.6 |
| 100°-110° | 1.3 | 0.2 |
| 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° | 245.4 | 40.2 |
| 0°-40° | 342.4 | 56.0 |
| 0°-60° | 504.1 | 82.5 |
| 0°-90° | 600.1 | 98.2 |
| 90°-120° | 11.0 | 1.8 |
| 90°-150° | 11.0 | 1.8 |
| 90°-180° | 11.0 | 1.8 |
| 0°-180° | 611.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 529 | |
| 5° | 530 | 50 |
| 15° | 340 | 98 |
| 25° | 210 | 97 |
| 35° | 154 | 97 |
| 45° | 121 | 93 |
| 55° | 76 | 69 |
| 65° | 47 | 47 |
| 75° | 28 | 31 |
| 85° | 17 | 15 |
| 90° | 12 | 7 |
| 95° | 9 | 6 |
| 105° | 1 | 1 |
| 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° | 528.8 |
| 2.5° | 529.5 |
| 5° | 529.5 |
| 7.5° | 525.3 |
| 10° | 500.3 |
| 12.5° | 423.2 |
| 15° | 340.5 |
| 17.5° | 293.9 |
| 20° | 259.2 |
| 22.5° | 231.4 |
| 25° | 209.8 |
| 27.5° | 191.8 |
| 30° | 176.5 |
| 32.5° | 163.3 |
| 35° | 153.6 |
| 37.5° | 145.9 |
| 40° | 139.0 |
| 42.5° | 131.3 |
| 45° | 120.9 |
| 47.5° | 109.8 |
| 50° | 98.0 |
| 52.5° | 86.9 |
| 55° | 76.4 |
| 57.5° | 67.4 |
| 60° | 59.8 |
| 62.5° | 52.8 |
| 65° | 46.6 |
| 67.5° | 41.7 |
| 70° | 36.8 |
| 72.5° | 32.7 |
| 75° | 28.5 |
| 77.5° | 25.0 |
| 80° | 22.2 |
| 82.5° | 19.5 |
| 85° | 16.7 |
| 87.5° | 14.6 |
| 90° | 12.5 |
| 92.5° | 11.1 |
| 95° | 9.0 |
| 97.5° | 6.9 |
| 100° | 4.2 |
| 102.5° | 2.1 |
| 105° | 0.7 |
| 107.5° | 0.0 |
| 110° | 0.0 |

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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)