

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: P702687

Luminaire Tested: 340-6C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

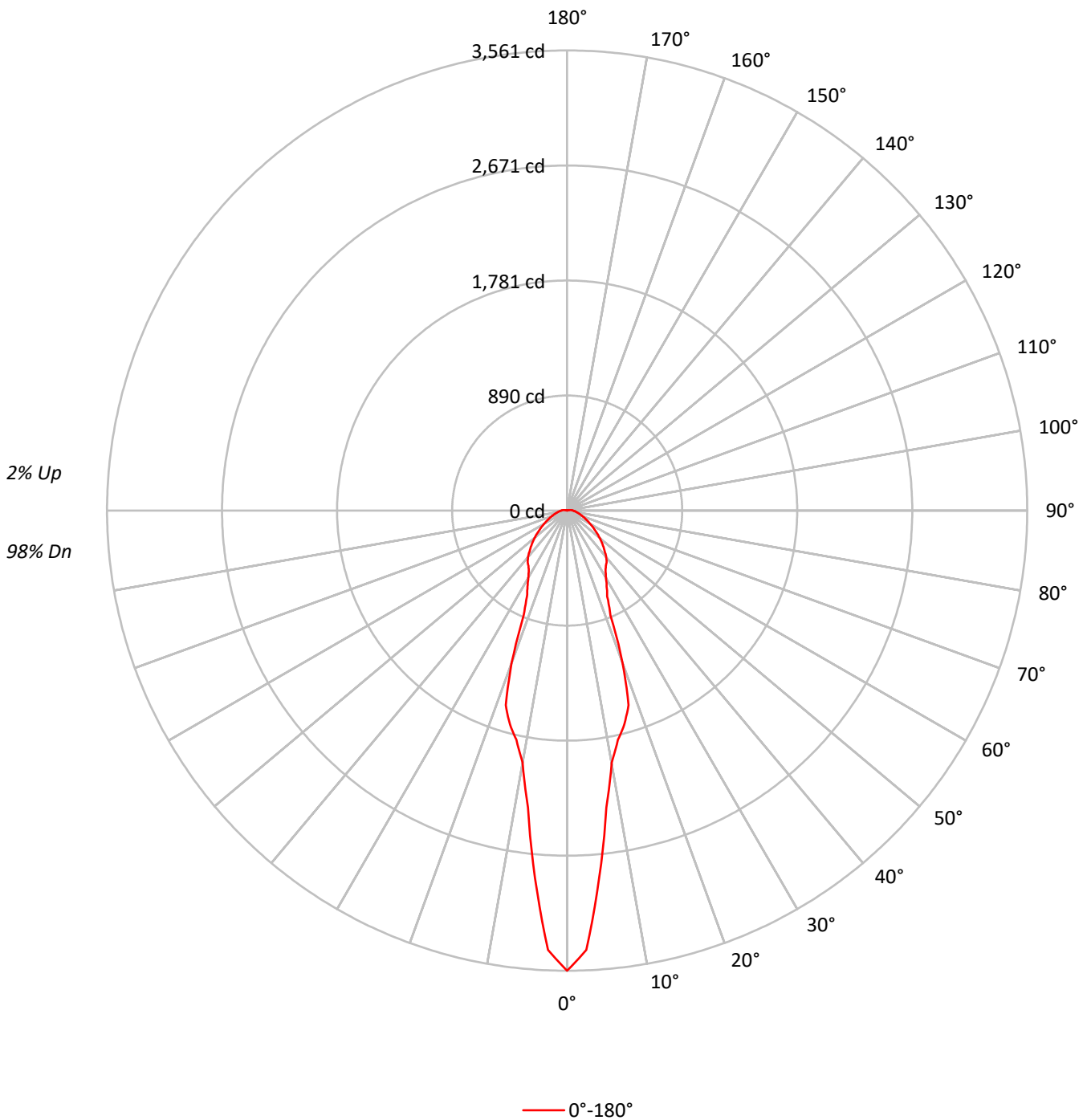
Lumens per Lamp: N/A
Luminaire Lumens: 2328.2 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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 | 110 | 110 | 110 | | 105 | 105 | 105 | | 100 | 100 | 100 | 98 |
| 1 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 97 | 98 | 96 | 93 | | 94 | 92 | 90 | | 90 | 89 | 87 | 85 |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 87 | 83 | 89 | 84 | 81 | | 85 | 82 | 78 | | 82 | 79 | 76 | 74 |
| 3 | 95 | 86 | 79 | 73 | 92 | 84 | 78 | 72 | 81 | 75 | 71 | | 78 | 73 | 70 | | 75 | 71 | 68 | 66 |
| 4 | 88 | 78 | 71 | 65 | 86 | 77 | 70 | 64 | 74 | 68 | 63 | | 72 | 67 | 62 | | 69 | 65 | 61 | 59 |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 68 | 62 | 57 | | 66 | 61 | 57 | | 64 | 60 | 56 | 54 |
| 6 | 78 | 66 | 59 | 53 | 76 | 65 | 58 | 53 | 63 | 57 | 52 | | 62 | 56 | 52 | | 60 | 55 | 51 | 49 |
| 7 | 73 | 62 | 54 | 49 | 71 | 61 | 54 | 49 | 59 | 53 | 48 | | 58 | 52 | 48 | | 56 | 51 | 47 | 46 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 55 | 49 | 45 | | 54 | 48 | 44 | | 53 | 48 | 44 | 42 |
| 9 | 66 | 54 | 47 | 42 | 64 | 53 | 47 | 42 | 52 | 46 | 42 | | 51 | 45 | 41 | | 50 | 45 | 41 | 40 |
| 10 | 62 | 51 | 44 | 40 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | | 48 | 43 | 39 | | 47 | 42 | 39 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 232296 |
| 5° | 166869 |
| 10° | 105878 |
| 15° | 84768 |
| 20° | 58314 |
| 25° | 32328 |
| 30° | 25348 |
| 35° | 21291 |
| 40° | 18702 |
| 45° | 15513 |
| 50° | 12737 |
| 55° | 10086 |
| 60° | 8033 |
| 65° | 6322 |
| 70° | 5034 |
| 75° | 4058 |
| 80° | 3281 |
| 85° | 2705 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15513 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 243.7 | 10.5 |
| 10°-20° | 467.6 | 20.1 |
| 20°-30° | 363.0 | 15.6 |
| 30°-40° | 330.2 | 14.2 |
| 40°-50° | 306.4 | 13.2 |
| 50°-60° | 235.8 | 10.1 |
| 60°-70° | 161.4 | 6.9 |
| 70°-80° | 104.7 | 4.5 |
| 80°-90° | 65.2 | 2.8 |
| 90°-100° | 37.8 | 1.6 |
| 100°-110° | 11.9 | 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° | 1074.3 | 46.1 |
| 0°-40° | 1404.6 | 60.3 |
| 0°-60° | 1946.7 | 83.6 |
| 0°-90° | 2278.1 | 97.8 |
| 90°-120° | 50.1 | 2.2 |
| 90°-150° | 50.1 | 2.2 |
| 90°-180° | 50.0 | 2.1 |
| 0°-180° | 2328.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 3561 | |
| 5° | 2851 | 244 |
| 15° | 1712 | 468 |
| 25° | 734 | 363 |
| 35° | 522 | 330 |
| 45° | 397 | 306 |
| 55° | 261 | 236 |
| 65° | 160 | 161 |
| 75° | 98 | 105 |
| 85° | 60 | 52 |
| 90° | 44 | 25 |
| 95° | 35 | 26 |
| 105° | 11 | 12 |
| 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° | 3560.6 |
| 2.5° | 3403.0 |
| 5° | 2851.2 |
| 7.5° | 2318.5 |
| 10° | 1981.5 |
| 12.5° | 1815.7 |
| 15° | 1712.4 |
| 17.5° | 1579.2 |
| 20° | 1255.7 |
| 22.5° | 877.9 |
| 25° | 733.9 |
| 27.5° | 663.2 |
| 30° | 600.7 |
| 32.5° | 551.8 |
| 35° | 521.9 |
| 37.5° | 502.8 |
| 40° | 470.2 |
| 42.5° | 432.2 |
| 45° | 396.8 |
| 47.5° | 361.5 |
| 50° | 328.9 |
| 52.5° | 293.5 |
| 55° | 260.9 |
| 57.5° | 233.8 |
| 60° | 206.6 |
| 62.5° | 182.1 |
| 65° | 160.4 |
| 67.5° | 144.1 |
| 70° | 125.0 |
| 72.5° | 111.4 |
| 75° | 97.8 |
| 77.5° | 87.0 |
| 80° | 76.1 |
| 82.5° | 68.0 |
| 85° | 59.8 |
| 87.5° | 51.6 |
| 90° | 43.5 |
| 92.5° | 40.8 |
| 95° | 35.3 |
| 97.5° | 29.9 |
| 100° | 21.7 |
| 102.5° | 16.3 |
| 105° | 10.9 |
| 107.5° | 5.4 |
| 110° | 2.7 |

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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)