

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: P702436

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9030-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-15-D010 / 340-EU4C-1020-9030-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

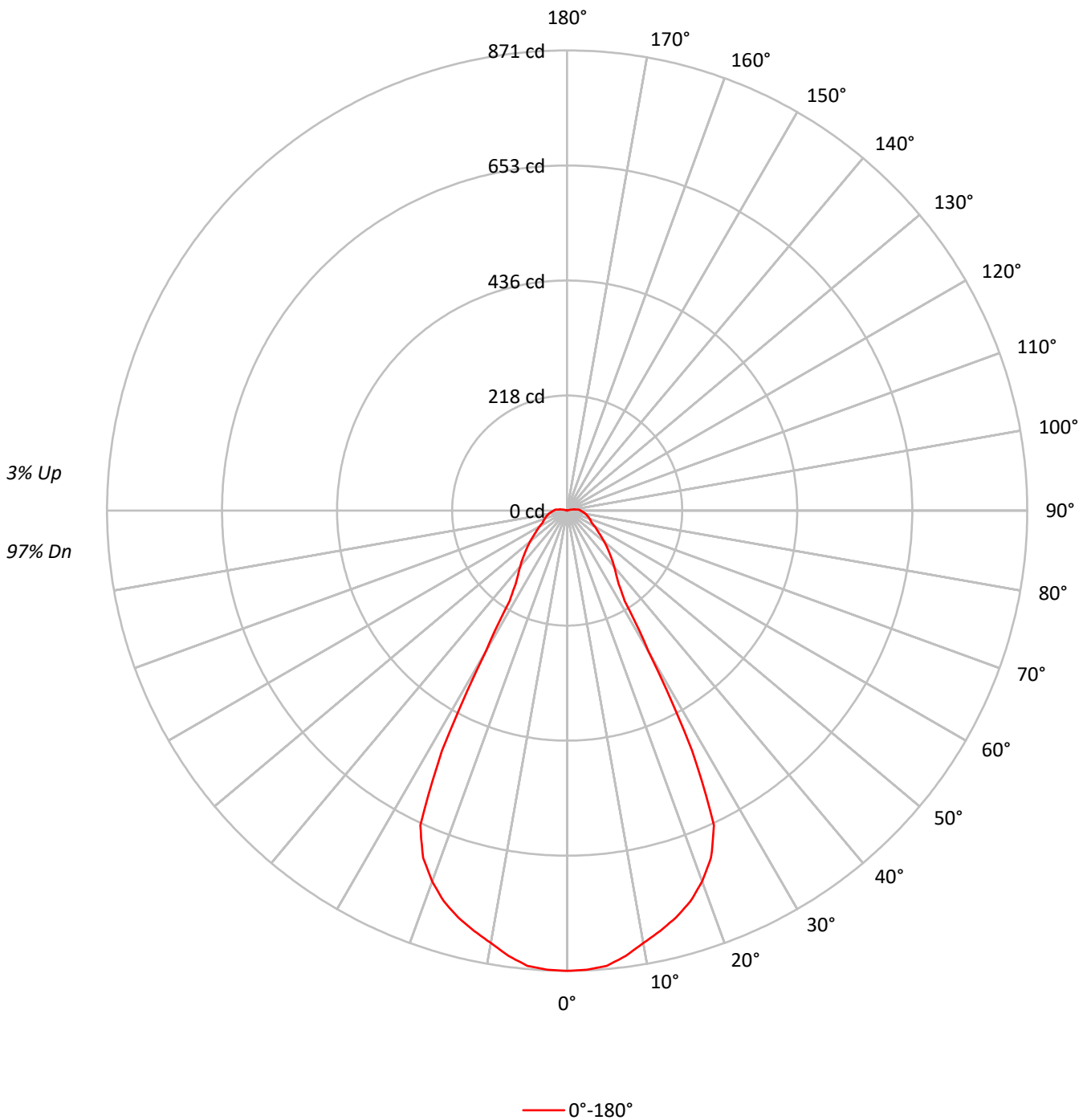
Lumens per Lamp: N/A
Luminaire Lumens: 1003.4 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 15.8
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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | | 104 | 104 | 104 | | 99 | 99 | 99 | 97 |
| 1 | 110 | 106 | 102 | 99 | 107 | 103 | 100 | 97 | 99 | 96 | 93 | | 94 | 92 | 90 | | 90 | 89 | 87 | 85 |
| 2 | 102 | 96 | 90 | 86 | 100 | 94 | 89 | 84 | 90 | 86 | 82 | | 86 | 83 | 80 | | 83 | 80 | 78 | 76 |
| 3 | 96 | 87 | 81 | 76 | 93 | 86 | 80 | 75 | 82 | 77 | 73 | | 80 | 75 | 72 | | 77 | 73 | 70 | 68 |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | | 74 | 69 | 65 | | 71 | 67 | 64 | 62 |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 66 | 61 | 71 | 65 | 61 | | 69 | 64 | 60 | | 67 | 62 | 59 | 57 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 66 | 60 | 56 | | 64 | 59 | 55 | | 63 | 58 | 54 | 53 |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | | 60 | 55 | 51 | | 59 | 54 | 51 | 49 |
| 8 | 71 | 60 | 53 | 49 | 70 | 60 | 53 | 48 | 58 | 52 | 48 | | 57 | 52 | 48 | | 56 | 51 | 47 | 46 |
| 9 | 68 | 57 | 50 | 45 | 66 | 56 | 50 | 45 | 55 | 49 | 45 | | 54 | 48 | 45 | | 53 | 48 | 44 | 43 |
| 10 | 64 | 53 | 47 | 43 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | | 51 | 46 | 42 | | 50 | 45 | 42 | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 56838 |
| 5° | 50619 |
| 10° | 44403 |
| 15° | 39458 |
| 20° | 34681 |
| 25° | 28962 |
| 30° | 12997 |
| 35° | 6923 |
| 40° | 5501 |
| 45° | 4422 |
| 50° | 3555 |
| 55° | 2818 |
| 60° | 2345 |
| 65° | 1983 |
| 70° | 1824 |
| 75° | 1668 |
| 80° | 1518 |
| 85° | 1366 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4422 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.4 | 8.1 |
| 10°-20° | 223.9 | 22.3 |
| 20°-30° | 273.1 | 27.2 |
| 30°-40° | 115.6 | 11.5 |
| 40°-50° | 87.7 | 8.7 |
| 50°-60° | 66.4 | 6.6 |
| 60°-70° | 50.8 | 5.1 |
| 70°-80° | 42.5 | 4.2 |
| 80°-90° | 32.9 | 3.3 |
| 90°-100° | 22.0 | 2.2 |
| 100°-110° | 6.5 | 0.7 |
| 110°-120° | 0.5 | 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° | 578.4 | 57.6 |
| 0°-40° | 694.0 | 69.2 |
| 0°-60° | 848.2 | 84.5 |
| 0°-90° | 974.4 | 97.1 |
| 90°-120° | 29.0 | 2.9 |
| 90°-150° | 29.0 | 2.9 |
| 90°-180° | 29.0 | 2.9 |
| 0°-180° | 1003.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 871 | |
| 5° | 865 | 81 |
| 15° | 797 | 224 |
| 25° | 658 | 273 |
| 35° | 170 | 116 |
| 45° | 113 | 88 |
| 55° | 73 | 66 |
| 65° | 50 | 51 |
| 75° | 40 | 43 |
| 85° | 30 | 26 |
| 90° | 25 | 14 |
| 95° | 21 | 15 |
| 105° | 5 | 7 |
| 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° | 871.2 |
| 2.5° | 870.0 |
| 5° | 864.9 |
| 7.5° | 849.9 |
| 10° | 831.0 |
| 12.5° | 814.7 |
| 15° | 797.1 |
| 17.5° | 775.7 |
| 20° | 746.8 |
| 22.5° | 711.6 |
| 25° | 657.5 |
| 27.5° | 512.9 |
| 30° | 308.0 |
| 32.5° | 202.4 |
| 35° | 169.7 |
| 37.5° | 152.1 |
| 40° | 138.3 |
| 42.5° | 125.7 |
| 45° | 113.1 |
| 47.5° | 101.8 |
| 50° | 91.8 |
| 52.5° | 81.7 |
| 55° | 72.9 |
| 57.5° | 66.6 |
| 60° | 60.3 |
| 62.5° | 54.1 |
| 65° | 50.3 |
| 67.5° | 47.8 |
| 70° | 45.3 |
| 72.5° | 42.7 |
| 75° | 40.2 |
| 77.5° | 37.7 |
| 80° | 35.2 |
| 82.5° | 32.7 |
| 85° | 30.2 |
| 87.5° | 27.7 |
| 90° | 25.1 |
| 92.5° | 23.9 |
| 95° | 21.4 |
| 97.5° | 16.3 |
| 100° | 12.6 |
| 102.5° | 8.8 |
| 105° | 5.0 |
| 107.5° | 3.8 |
| 110° | 1.3 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 1.3 |
| 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)