

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: P702440

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-11)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CC
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

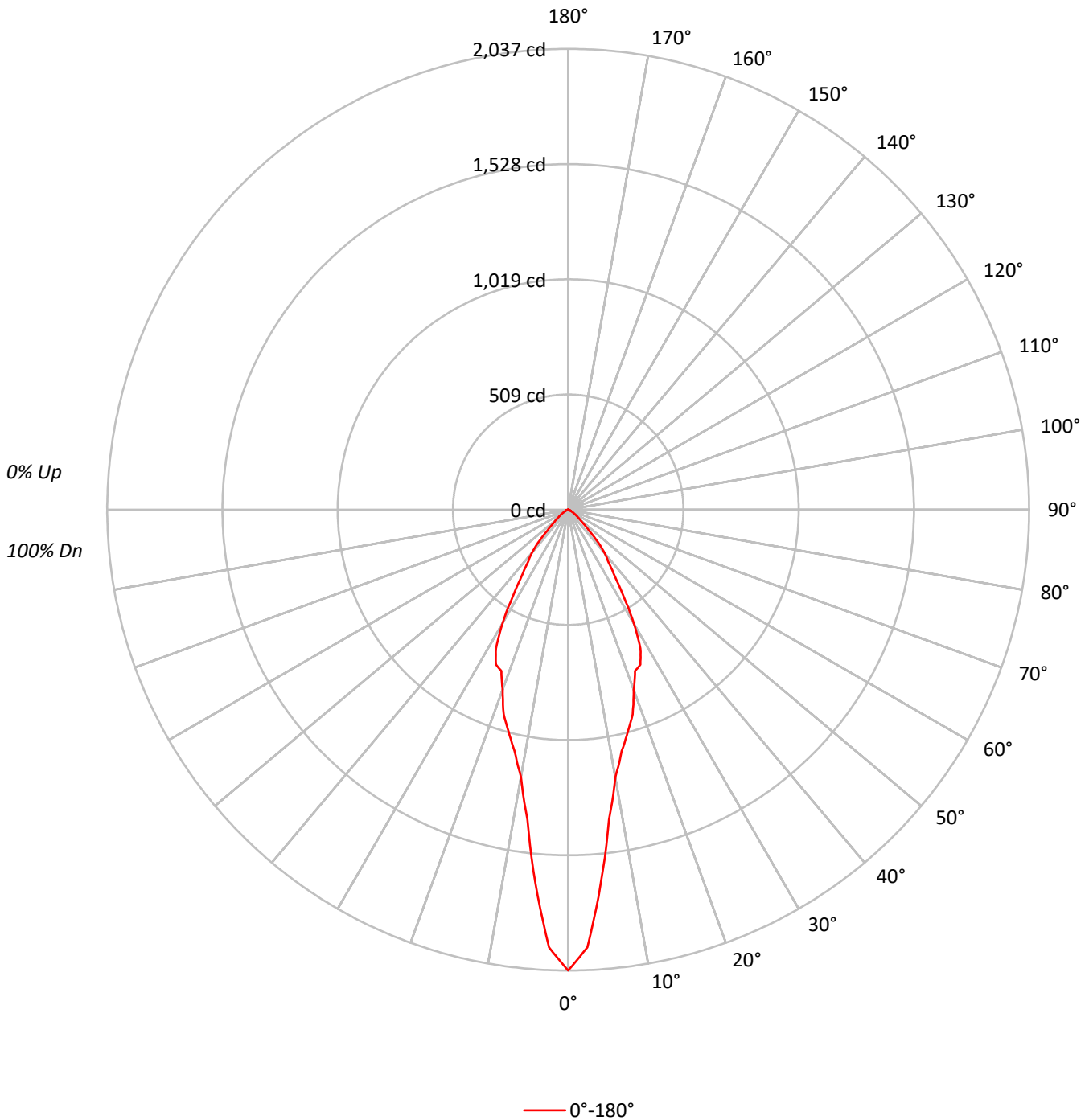
Lumens per Lamp: N/A
Luminaire Lumens: 1170.1 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.71
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

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 | 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 | 104 | 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 | 84 | 90 | 86 | 83 | | 88 | 85 | 82 | | 86 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 85 | 80 | 76 | | 83 | 79 | 75 | | 81 | 77 | 74 | 73 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | | 78 | 73 | 70 | | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 74 | 69 | 65 | | 73 | 68 | 65 | | 72 | 68 | 64 | 63 |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 65 | 61 | | 69 | 64 | 61 | | 68 | 63 | 60 | 59 |
| 8 | 78 | 68 | 62 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | | 65 | 60 | 57 | | 64 | 60 | 56 | 55 |
| 9 | 74 | 64 | 58 | 54 | 73 | 63 | 58 | 54 | 62 | 57 | 53 | | 61 | 57 | 53 | | 61 | 56 | 53 | 52 |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 54 | 50 | | 58 | 53 | 50 | | 58 | 53 | 50 | 49 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 132889 |
| 5° | 108504 |
| 10° | 79510 |
| 15° | 68657 |
| 20° | 58798 |
| 25° | 54356 |
| 30° | 43814 |
| 35° | 28441 |
| 40° | 21504 |
| 45° | 12004 |
| 50° | 6993 |
| 55° | 4641 |
| 60° | 3158 |
| 65° | 1976 |
| 70° | 1698 |
| 75° | 1286 |
| 80° | 977 |
| 85° | 973 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12004 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.3 | 12.2 |
| 10°-20° | 284.4 | 24.3 |
| 20°-30° | 336.3 | 28.7 |
| 30°-40° | 235.3 | 20.1 |
| 40°-50° | 109.8 | 9.4 |
| 50°-60° | 38.1 | 3.3 |
| 60°-70° | 14.5 | 1.2 |
| 70°-80° | 5.9 | 0.5 |
| 80°-90° | 1.4 | 0.1 |
| 90°-100° | 0.9 | 0.1 |
| 100°-110° | 0.5 | 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° | 764.0 | 65.3 |
| 0°-40° | 999.3 | 85.4 |
| 0°-60° | 1147.2 | 98.0 |
| 0°-90° | 1169.0 | 99.9 |
| 90°-120° | 1.4 | 0.1 |
| 90°-150° | 1.4 | 0.1 |
| 90°-180° | 1.0 | 0.1 |
| 0°-180° | 1170.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 2037 | |
| 5° | 1657 | 143 |
| 15° | 1016 | 284 |
| 25° | 755 | 336 |
| 35° | 357 | 235 |
| 45° | 130 | 110 |
| 55° | 41 | 38 |
| 65° | 13 | 14 |
| 75° | 5 | 6 |
| 85° | 1 | 1 |
| 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° | 2036.9 |
| 2.5° | 1936.1 |
| 5° | 1656.8 |
| 7.5° | 1381.3 |
| 10° | 1200.2 |
| 12.5° | 1093.0 |
| 15° | 1016.5 |
| 17.5° | 947.6 |
| 20° | 846.9 |
| 22.5° | 771.6 |
| 25° | 755.1 |
| 27.5° | 691.3 |
| 30° | 581.6 |
| 32.5° | 457.9 |
| 35° | 357.1 |
| 37.5° | 292.1 |
| 40° | 252.5 |
| 42.5° | 196.4 |
| 45° | 130.1 |
| 47.5° | 90.6 |
| 50° | 68.9 |
| 52.5° | 52.3 |
| 55° | 40.8 |
| 57.5° | 31.9 |
| 60° | 24.2 |
| 62.5° | 17.9 |
| 65° | 12.8 |
| 67.5° | 11.5 |
| 70° | 8.9 |
| 72.5° | 7.7 |
| 75° | 5.1 |
| 77.5° | 3.8 |
| 80° | 2.6 |
| 82.5° | 1.3 |
| 85° | 1.3 |
| 87.5° | 1.3 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 1.3 |
| 100° | 1.3 |
| 102.5° | 1.3 |
| 105° | 0.0 |
| 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)