

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: P702622

Luminaire Tested: 340-6C-30-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702622
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-30-D010 / 340-EU4C-3040-9050-4LBW1LI-CC
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

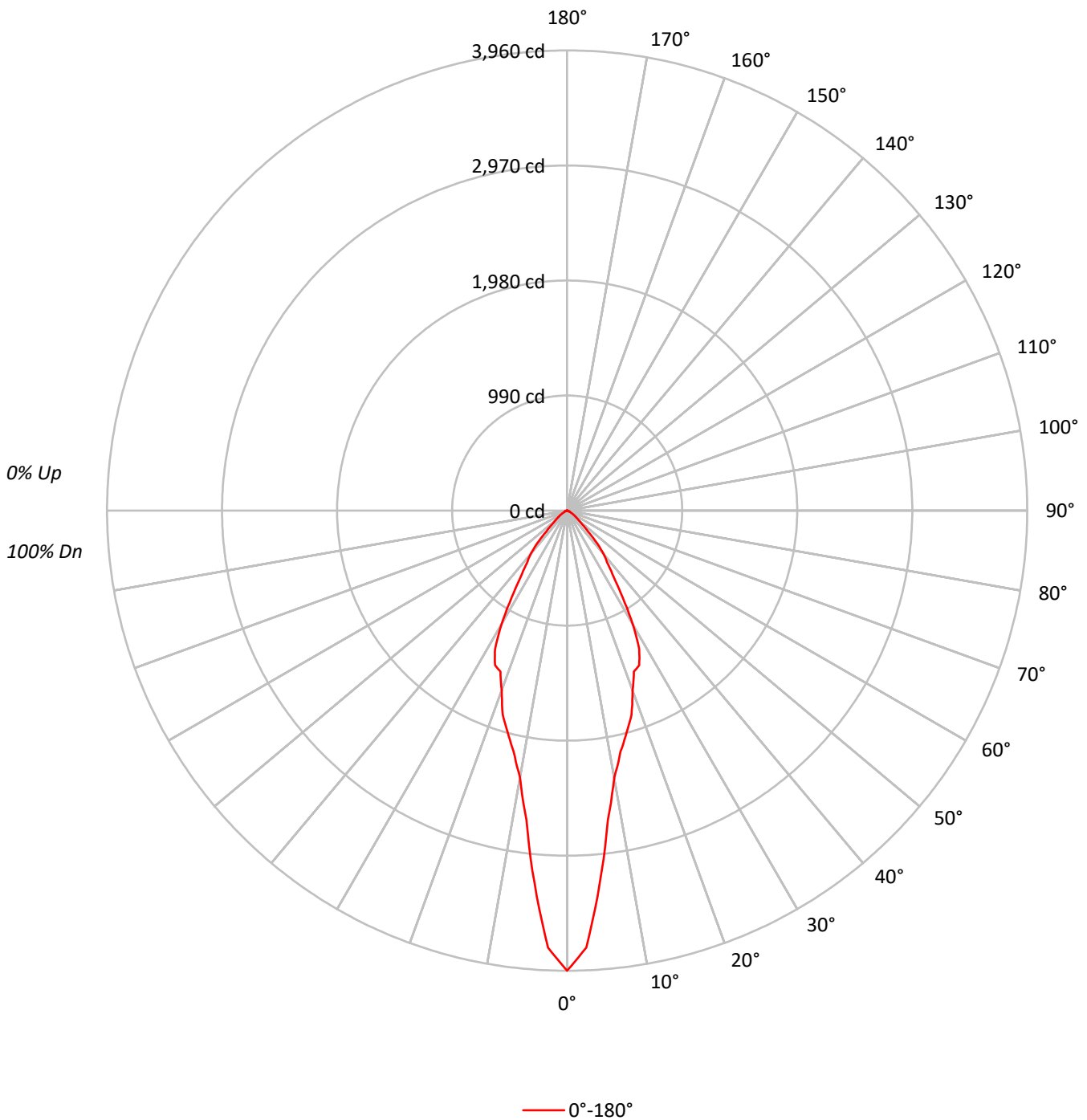
Lumens per Lamp: N/A
Luminaire Lumens: 2274.4 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.71
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 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 | | 62 | 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° | 258320 |
| 5° | 210923 |
| 10° | 154561 |
| 15° | 133463 |
| 20° | 114299 |
| 25° | 105660 |
| 30° | 85172 |
| 35° | 55289 |
| 40° | 41808 |
| 45° | 23334 |
| 50° | 13590 |
| 55° | 9020 |
| 60° | 6146 |
| 65° | 3828 |
| 70° | 3319 |
| 75° | 2495 |
| 80° | 1879 |
| 85° | 1871 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23334 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 278.5 | 12.2 |
| 10°-20° | 553.0 | 24.3 |
| 20°-30° | 653.7 | 28.7 |
| 30°-40° | 457.4 | 20.1 |
| 40°-50° | 213.4 | 9.4 |
| 50°-60° | 74.1 | 3.3 |
| 60°-70° | 28.1 | 1.2 |
| 70°-80° | 11.4 | 0.5 |
| 80°-90° | 2.7 | 0.1 |
| 90°-100° | 1.7 | 0.1 |
| 100°-110° | 1.0 | 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° | 1485.1 | 65.3 |
| 0°-40° | 1942.6 | 85.4 |
| 0°-60° | 2230.1 | 98.1 |
| 0°-90° | 2272.4 | 99.9 |
| 90°-120° | 2.7 | 0.1 |
| 90°-150° | 2.7 | 0.1 |
| 90°-180° | 3.0 | 0.1 |
| 0°-180° | 2274.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 3960 | |
| 5° | 3221 | 278 |
| 15° | 1976 | 553 |
| 25° | 1468 | 654 |
| 35° | 694 | 457 |
| 45° | 253 | 213 |
| 55° | 79 | 74 |
| 65° | 25 | 28 |
| 75° | 10 | 11 |
| 85° | 2 | 2 |
| 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 | 0 |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 3959.5 |
| 2.5° | 3763.6 |
| 5° | 3220.7 |
| 7.5° | 2685.1 |
| 10° | 2333.1 |
| 12.5° | 2124.8 |
| 15° | 1976.0 |
| 17.5° | 1842.2 |
| 20° | 1646.3 |
| 22.5° | 1500.0 |
| 25° | 1467.8 |
| 27.5° | 1343.8 |
| 30° | 1130.6 |
| 32.5° | 890.1 |
| 35° | 694.2 |
| 37.5° | 567.8 |
| 40° | 490.9 |
| 42.5° | 381.8 |
| 45° | 252.9 |
| 47.5° | 176.0 |
| 50° | 133.9 |
| 52.5° | 101.7 |
| 55° | 79.3 |
| 57.5° | 62.0 |
| 60° | 47.1 |
| 62.5° | 34.7 |
| 65° | 24.8 |
| 67.5° | 22.3 |
| 70° | 17.4 |
| 72.5° | 14.9 |
| 75° | 9.9 |
| 77.5° | 7.4 |
| 80° | 5.0 |
| 82.5° | 2.5 |
| 85° | 2.5 |
| 87.5° | 2.5 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 2.5 |
| 100° | 2.5 |
| 102.5° | 2.5 |
| 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)