

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: P702123

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9050-4LBW1LI-GFC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

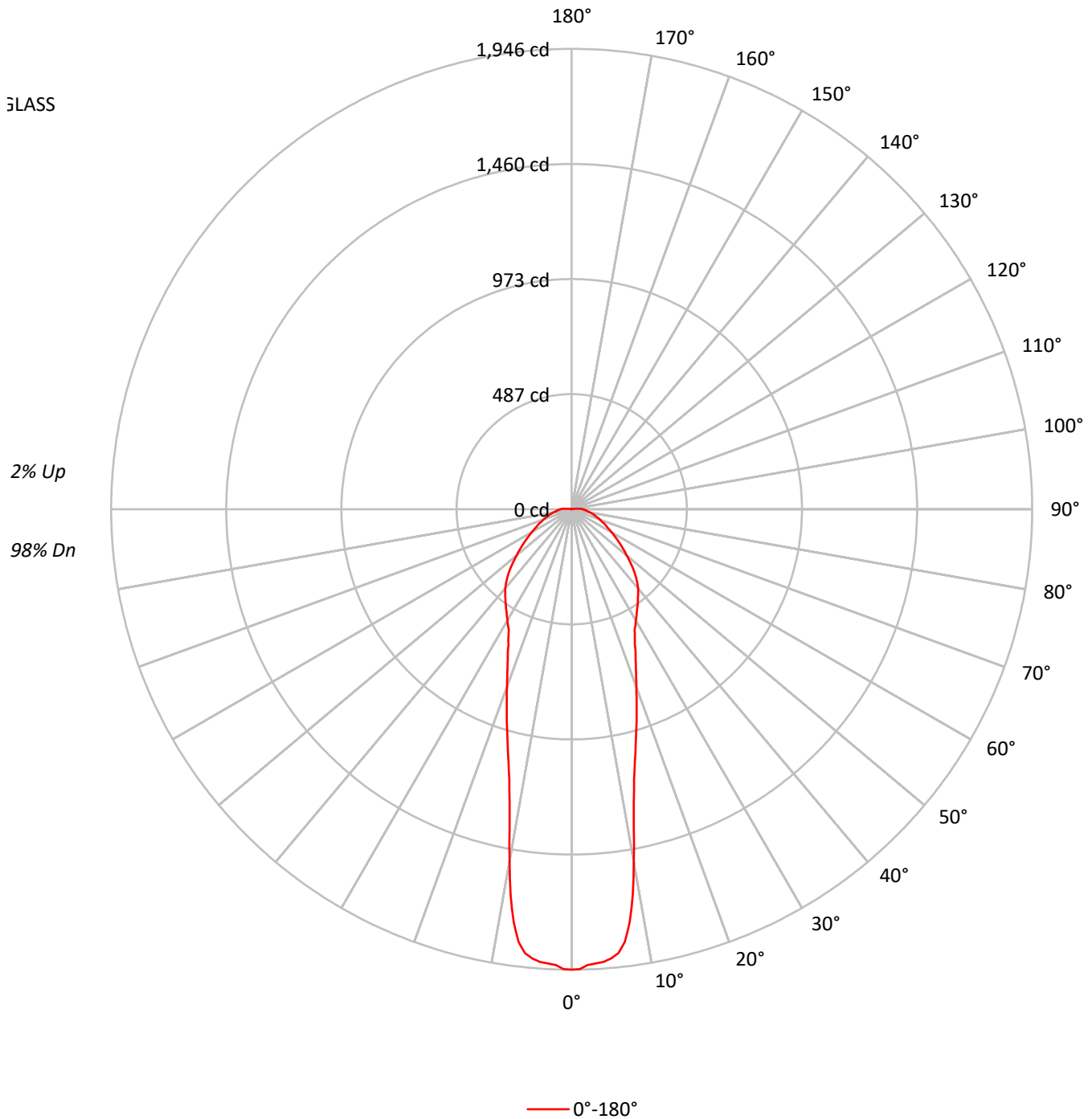
Lumens per Lamp: N/A  
Luminaire Lumens: 1938.6 lumens  
Efficiency: N/A  
Efficacy: 61.3 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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 | 110 | 110 | 110 |  | 105 | 105 | 105 |  | 100 | 100 | 100 | 98 |
| 1   | 109 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 97  | 94  | 92  |  | 93  | 91  | 89  |  | 89  | 87  | 86  | 83 |
| 2   | 100 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 80  | 77  | 74  | 72 |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 78  | 73  | 68  |  | 75  | 71  | 66  |  | 73  | 69  | 65  | 63 |
| 4   | 86  | 75  | 67  | 61  | 84  | 74  | 66  | 61  | 71  | 65  | 60  |  | 69  | 63  | 59  |  | 66  | 62  | 58  | 56 |
| 5   | 80  | 69  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 58  | 53  |  | 63  | 57  | 53  |  | 61  | 56  | 52  | 50 |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  |  | 58  | 52  | 48  |  | 57  | 51  | 47  | 45 |
| 7   | 70  | 58  | 50  | 45  | 69  | 57  | 50  | 44  | 56  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 47  | 43  | 41 |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  |  | 50  | 44  | 40  |  | 49  | 44  | 40  | 38 |
| 9   | 62  | 50  | 43  | 38  | 61  | 50  | 42  | 38  | 48  | 42  | 37  |  | 47  | 41  | 37  |  | 46  | 41  | 37  | 35 |
| 10  | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 45  | 39  | 35  |  | 44  | 39  | 35  |  | 44  | 38  | 34  | 33 |

**AVERAGE LUMINANCE (cd/sqm):**

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 225692 |
| 5°  | 193212 |
| 10° | 137184 |
| 15° | 86122  |
| 20° | 60962  |
| 25° | 45157  |
| 30° | 36719  |
| 35° | 31472  |
| 40° | 27296  |
| 45° | 22722  |
| 50° | 18096  |
| 55° | 14431  |
| 60° | 11485  |
| 65° | 9314   |
| 70° | 7597   |
| 75° | 6176   |
| 80° | 4877   |
| 85° | 3985   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22722 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.1  | 8.8       |
| 10°-20°   | 295.0  | 15.2      |
| 20°-30°   | 295.4  | 15.2      |
| 30°-40°   | 304.9  | 15.7      |
| 40°-50°   | 286.8  | 14.8      |
| 50°-60°   | 219.9  | 11.3      |
| 60°-70°   | 156.8  | 8.1       |
| 70°-80°   | 107.0  | 5.5       |
| 80°-90°   | 67.0   | 3.5       |
| 90°-100°  | 31.8   | 1.6       |
| 100°-110° | 2.8    | 0.1       |
| 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°    | 761.5  | 39.3      |
| 0°-40°    | 1066.4 | 55.0      |
| 0°-60°    | 1573.2 | 81.2      |
| 0°-90°    | 1904.0 | 98.2      |
| 90°-120°  | 34.6   | 1.8       |
| 90°-150°  | 34.6   | 1.8       |
| 90°-180°  | 35.0   | 1.8       |
| 0°-180°   | 1938.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1946 |      |
| 5°   | 1906 | 171  |
| 15°  | 1044 | 295  |
| 25°  | 632  | 295  |
| 35°  | 486  | 305  |
| 45°  | 374  | 287  |
| 55°  | 244  | 220  |
| 65°  | 158  | 157  |
| 75°  | 101  | 107  |
| 85°  | 61   | 53   |
| 90°  | 47   | 26   |
| 95°  | 28   | 20   |
| 105° | 0    | 3    |
| 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°    | 1945.9 |
| 1°    | 1943.6 |
| 2°    | 1927.1 |
| 3°    | 1922.4 |
| 4°    | 1917.7 |
| 5°    | 1906.0 |
| 6°    | 1887.2 |
| 7°    | 1842.5 |
| 8°    | 1762.6 |
| 9°    | 1649.8 |
| 10°   | 1513.5 |
| 11°   | 1374.8 |
| 12°   | 1259.7 |
| 13°   | 1170.4 |
| 14°   | 1102.2 |
| 15°   | 1043.5 |
| 16°   | 987.1  |
| 17°   | 937.7  |
| 18°   | 888.4  |
| 19°   | 841.4  |
| 20°   | 799.1  |
| 21°   | 759.1  |
| 22°   | 723.8  |
| 23°   | 690.9  |
| 24°   | 662.7  |
| 25°   | 632.2  |
| 27.5° | 575.8  |
| 30°   | 542.9  |
| 32.5° | 512.3  |
| 35°   | 486.5  |
| 37.5° | 460.6  |
| 40°   | 437.1  |
| 42.5° | 406.6  |
| 45°   | 373.7  |
| 47.5° | 338.4  |
| 50°   | 303.2  |
| 52.5° | 272.6  |
| 55°   | 244.4  |
| 57.5° | 218.6  |
| 60°   | 195.1  |
| 62.5° | 173.9  |
| 65°   | 157.5  |
| 67.5° | 141.0  |
| 70°   | 126.9  |
| 72.5° | 112.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 75°    | 101.1 |
| 77.5°  | 89.3  |
| 80°    | 77.6  |
| 82.5°  | 68.2  |
| 85°    | 61.1  |
| 87.5°  | 54.1  |
| 90°    | 47.0  |
| 92.5°  | 40.0  |
| 95°    | 28.2  |
| 97.5°  | 18.8  |
| 100°   | 11.8  |
| 102.5° | 4.7   |
| 105°   | 0.0   |
| 107.5° | 0.0   |
| 110°   | 0.0   |
| 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)