

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: P702384

Luminaire Tested: 340-6C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702384  
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-10-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**

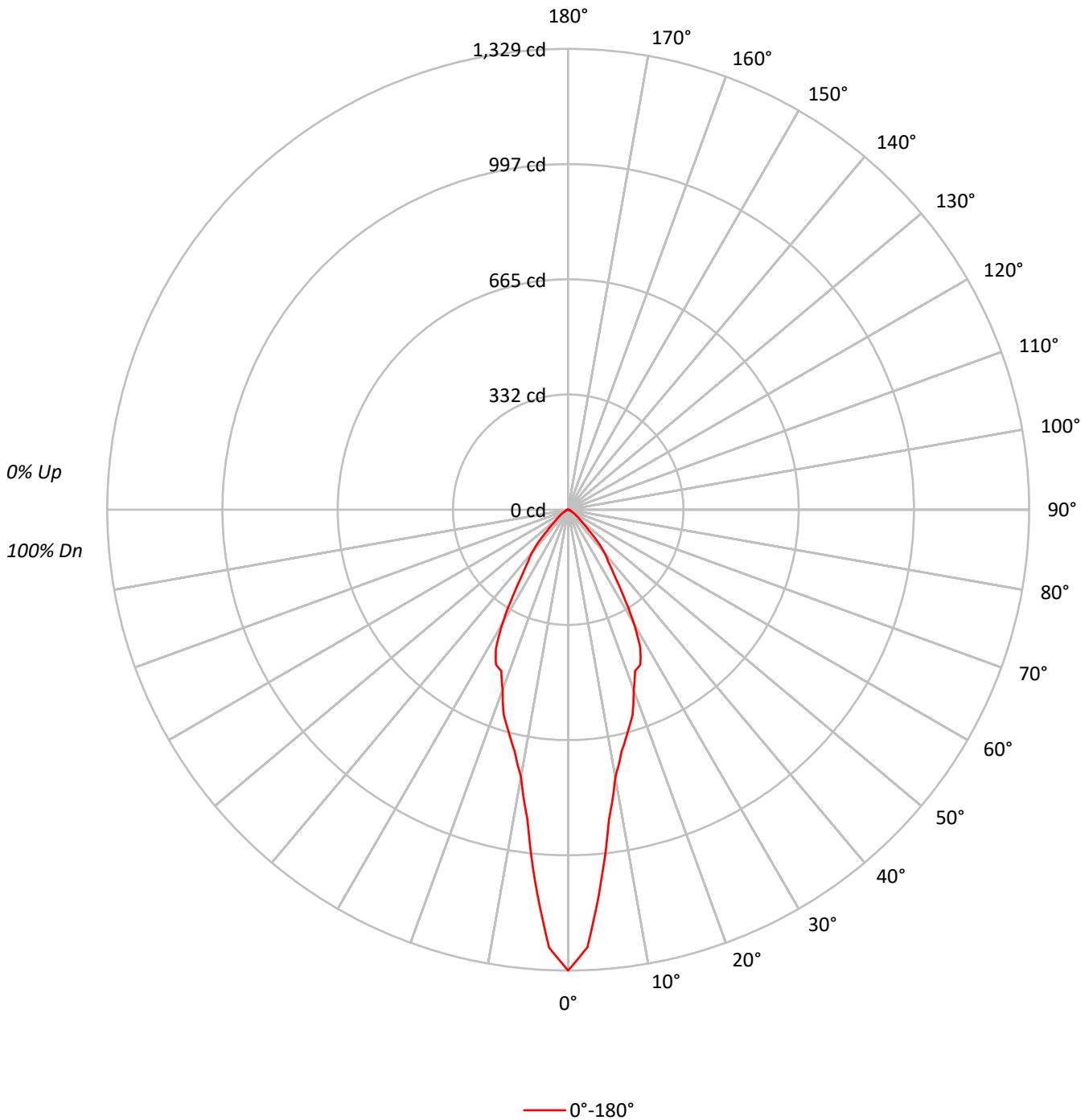
Lumens per Lamp: N/A  
Luminaire Lumens: 763.3 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.71  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
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

TEST NUMBER: P702384

CATALOG NUMBER: 340-6C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

### Luminous Intensity Polar Plot



TEST NUMBER: P702384

CATALOG NUMBER: 340-6C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

**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°  | 86705 |
| 5°  | 70795 |
| 10° | 51878 |
| 15° | 44794 |
| 20° | 38366 |
| 25° | 35460 |
| 30° | 28589 |
| 35° | 18557 |
| 40° | 14035 |
| 45° | 7833  |
| 50° | 4557  |
| 55° | 3026  |
| 60° | 2062  |
| 65° | 1281  |
| 70° | 1106  |
| 75° | 832   |
| 80° | 639   |
| 85° | 599   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7833 cd/sqm

TEST NUMBER: P702384

CATALOG NUMBER: 340-6C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.5   | 12.2      |
| 10°-20°   | 185.6  | 24.3      |
| 20°-30°   | 219.4  | 28.7      |
| 30°-40°   | 153.5  | 20.1      |
| 40°-50°   | 71.7   | 9.4       |
| 50°-60°   | 24.8   | 3.3       |
| 60°-70°   | 9.4    | 1.2       |
| 70°-80°   | 3.8    | 0.5       |
| 80°-90°   | 0.9    | 0.1       |
| 90°-100°  | 0.5    | 0.1       |
| 100°-110° | 0.3    | 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°    | 498.5  | 65.3      |
| 0°-40°    | 652.0  | 85.4      |
| 0°-60°    | 748.5  | 98.1      |
| 0°-90°    | 762.7  | 99.9      |
| 90°-120°  | 0.9    | 0.1       |
| 90°-150°  | 0.9    | 0.1       |
| 90°-180°  | 1.0    | 0.1       |
| 0°-180°   | 763.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1329 |      |
| 5°   | 1081 | 93   |
| 15°  | 663  | 186  |
| 25°  | 493  | 219  |
| 35°  | 233  | 154  |
| 45°  | 85   | 72   |
| 55°  | 27   | 25   |
| 65°  | 8    | 9    |
| 75°  | 3    | 4    |
| 85°  | 1    | 1    |
| 90°  | 0    | 0    |
| 95°  | 0    | 0    |
| 105° | 0    | 0    |
| 115° | 0    | 0    |
| 125° | 0    | 0    |
| 135° | 0    | 0    |
| 145° | 0    | 0    |
| 155° | 0    | 0    |
| 165° | 0    | 0    |
| 175° | 0    | 0    |
| 180° | 0    | 0    |

TEST NUMBER: P702384

CATALOG NUMBER: 340-6C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 1329.0 |
| 2.5°   | 1263.2 |
| 5°     | 1081.0 |
| 7.5°   | 901.2  |
| 10°    | 783.1  |
| 12.5°  | 713.2  |
| 15°    | 663.2  |
| 17.5°  | 618.3  |
| 20°    | 552.6  |
| 22.5°  | 503.5  |
| 25°    | 492.6  |
| 27.5°  | 451.0  |
| 30°    | 379.5  |
| 32.5°  | 298.7  |
| 35°    | 233.0  |
| 37.5°  | 190.6  |
| 40°    | 164.8  |
| 42.5°  | 128.2  |
| 45°    | 84.9   |
| 47.5°  | 59.1   |
| 50°    | 44.9   |
| 52.5°  | 34.1   |
| 55°    | 26.6   |
| 57.5°  | 20.8   |
| 60°    | 15.8   |
| 62.5°  | 11.7   |
| 65°    | 8.3    |
| 67.5°  | 7.5    |
| 70°    | 5.8    |
| 72.5°  | 5.0    |
| 75°    | 3.3    |
| 77.5°  | 2.5    |
| 80°    | 1.7    |
| 82.5°  | 0.8    |
| 85°    | 0.8    |
| 87.5°  | 0.8    |
| 90°    | 0.0    |
| 92.5°  | 0.0    |
| 95°    | 0.0    |
| 97.5°  | 0.8    |
| 100°   | 0.8    |
| 102.5° | 0.8    |
| 105°   | 0.0    |
| 107.5° | 0.0    |
| 110°   | 0.0    |

TEST NUMBER: P702384

CATALOG NUMBER: 340-6C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

**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)