

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: P702572

Luminaire Tested: 340-6C-25-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-25-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF  
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

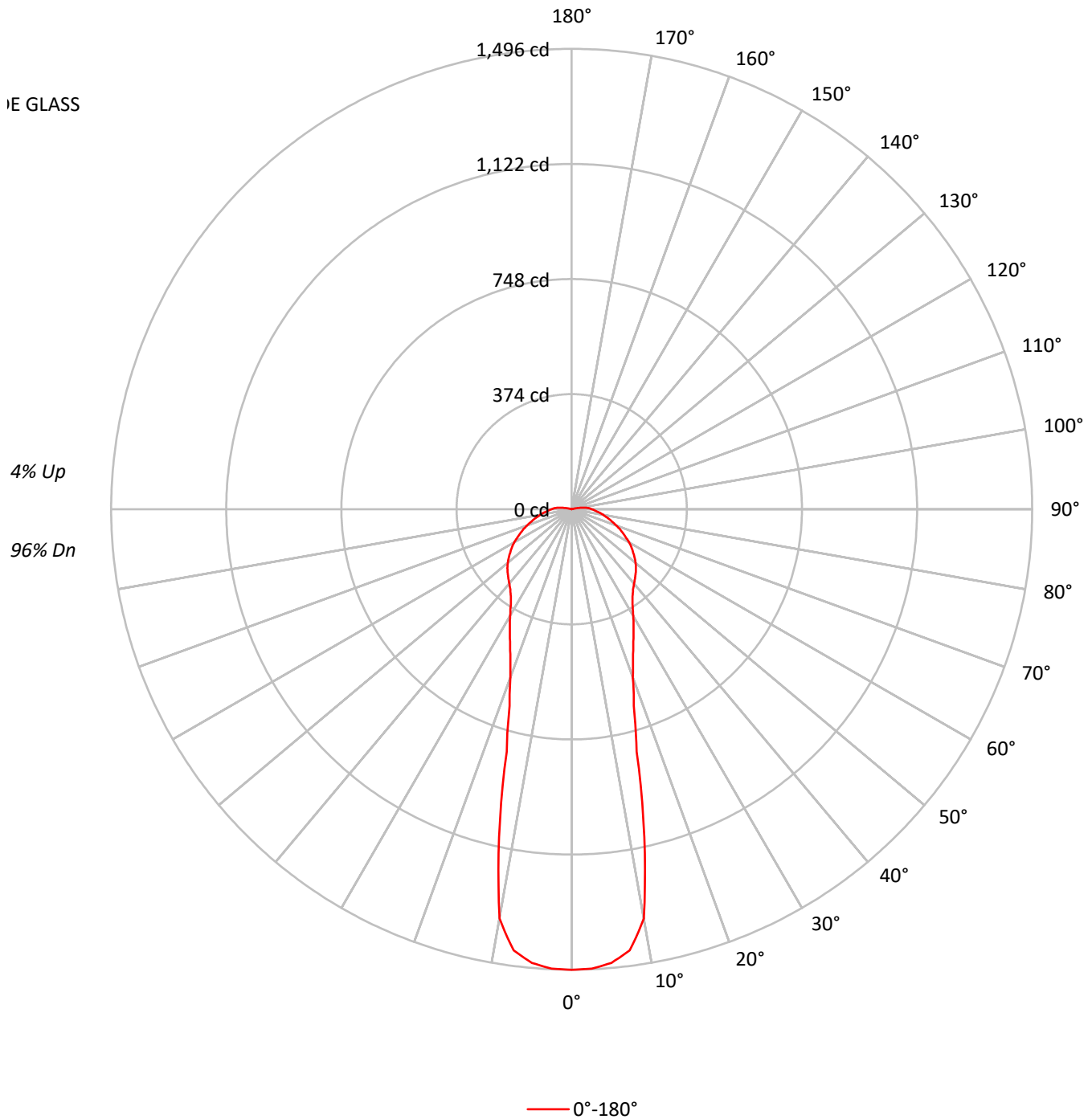
Lumens per Lamp: N/A  
Luminaire Lumens: 1732.2 lumens  
Efficiency: N/A  
Efficacy: 55.0 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.63  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

Input Watts (W): 31.5  
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 | 109 | 109 | 109 |  | 104 | 104 | 104 |  | 99 | 99 | 99 | 96 |
| 1   | 107 | 102 | 97  | 93  | 104 | 99  | 95  | 91  | 94  | 91  | 88  |  | 90  | 87  | 84  |  | 85 | 83 | 81 | 79 |
| 2   | 98  | 89  | 82  | 77  | 95  | 87  | 81  | 75  | 83  | 78  | 73  |  | 79  | 75  | 71  |  | 76 | 72 | 69 | 66 |
| 3   | 90  | 79  | 71  | 65  | 87  | 77  | 70  | 64  | 74  | 68  | 62  |  | 71  | 65  | 61  |  | 68 | 63 | 59 | 57 |
| 4   | 83  | 71  | 63  | 56  | 80  | 70  | 62  | 56  | 67  | 60  | 54  |  | 64  | 58  | 53  |  | 61 | 56 | 52 | 50 |
| 5   | 77  | 65  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  |  | 58  | 52  | 47  |  | 56 | 51 | 47 | 44 |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  |  | 54  | 47  | 43  |  | 52 | 46 | 42 | 40 |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 40  | 51  | 44  | 39  |  | 50  | 43  | 39  |  | 48 | 43 | 38 | 36 |
| 8   | 63  | 50  | 42  | 37  | 61  | 49  | 42  | 36  | 48  | 41  | 36  |  | 46  | 40  | 36  |  | 45 | 39 | 35 | 33 |
| 9   | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 38  | 33  |  | 43  | 37  | 33  |  | 42 | 37 | 33 | 31 |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 35  | 31  |  | 41  | 35  | 31  |  | 40 | 34 | 30 | 29 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 97633 |
| 5°  | 86595 |
| 10° | 72172 |
| 15° | 40389 |
| 20° | 26995 |
| 25° | 20857 |
| 30° | 16858 |
| 35° | 14054 |
| 40° | 12525 |
| 45° | 11486 |
| 50° | 10479 |
| 55° | 9398  |
| 60° | 8383  |
| 65° | 7248  |
| 70° | 6214  |
| 75° | 5261  |
| 80° | 4467  |
| 85° | 3728  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11486 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 137.6  | 7.9       |
| 10°-20°   | 239.5  | 13.8      |
| 20°-30°   | 219.7  | 12.7      |
| 30°-40°   | 218.4  | 12.6      |
| 40°-50°   | 226.9  | 13.1      |
| 50°-60°   | 218.1  | 12.6      |
| 60°-70°   | 182.4  | 10.5      |
| 70°-80°   | 134.5  | 7.8       |
| 80°-90°   | 91.0   | 5.3       |
| 90°-100°  | 52.8   | 3.0       |
| 100°-110° | 11.0   | 0.6       |
| 110°-120° | 0.3    | 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°    | 596.8  | 34.5      |
| 0°-40°    | 815.2  | 47.1      |
| 0°-60°    | 1260.2 | 72.7      |
| 0°-90°    | 1668.1 | 96.3      |
| 90°-120°  | 64.1   | 3.7       |
| 90°-150°  | 64.1   | 3.7       |
| 90°-180°  | 64.0   | 3.7       |
| 0°-180°   | 1732.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1496 |      |
| 5°   | 1480 | 138  |
| 15°  | 816  | 240  |
| 25°  | 474  | 220  |
| 35°  | 344  | 218  |
| 45°  | 294  | 227  |
| 55°  | 243  | 218  |
| 65°  | 184  | 182  |
| 75°  | 127  | 135  |
| 85°  | 82   | 72   |
| 90°  | 66   | 36   |
| 95°  | 51   | 36   |
| 105° | 8    | 11   |
| 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°     | 1496.5 |
| 2.5°   | 1494.4 |
| 5°     | 1479.6 |
| 7.5°   | 1445.8 |
| 10°    | 1350.7 |
| 12.5°  | 1090.7 |
| 15°    | 815.9  |
| 17.5°  | 670.1  |
| 20°    | 581.3  |
| 22.5°  | 520.0  |
| 25°    | 473.5  |
| 27.5°  | 435.4  |
| 30°    | 399.5  |
| 32.5°  | 367.8  |
| 35°    | 344.5  |
| 37.5°  | 327.6  |
| 40°    | 314.9  |
| 42.5°  | 304.4  |
| 45°    | 293.8  |
| 47.5°  | 283.2  |
| 50°    | 270.6  |
| 52.5°  | 257.9  |
| 55°    | 243.1  |
| 57.5°  | 230.4  |
| 60°    | 215.6  |
| 62.5°  | 198.7  |
| 65°    | 183.9  |
| 67.5°  | 169.1  |
| 70°    | 154.3  |
| 72.5°  | 139.5  |
| 75°    | 126.8  |
| 77.5°  | 114.1  |
| 80°    | 103.6  |
| 82.5°  | 93.0   |
| 85°    | 82.4   |
| 87.5°  | 74.0   |
| 90°    | 65.5   |
| 92.5°  | 59.2   |
| 95°    | 50.7   |
| 97.5°  | 38.0   |
| 100°   | 25.4   |
| 102.5° | 14.8   |
| 105°   | 8.5    |
| 107.5° | 4.2    |
| 110°   | 2.1    |

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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)