

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: P702402

Luminaire Tested: 340-6C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-GCC  
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

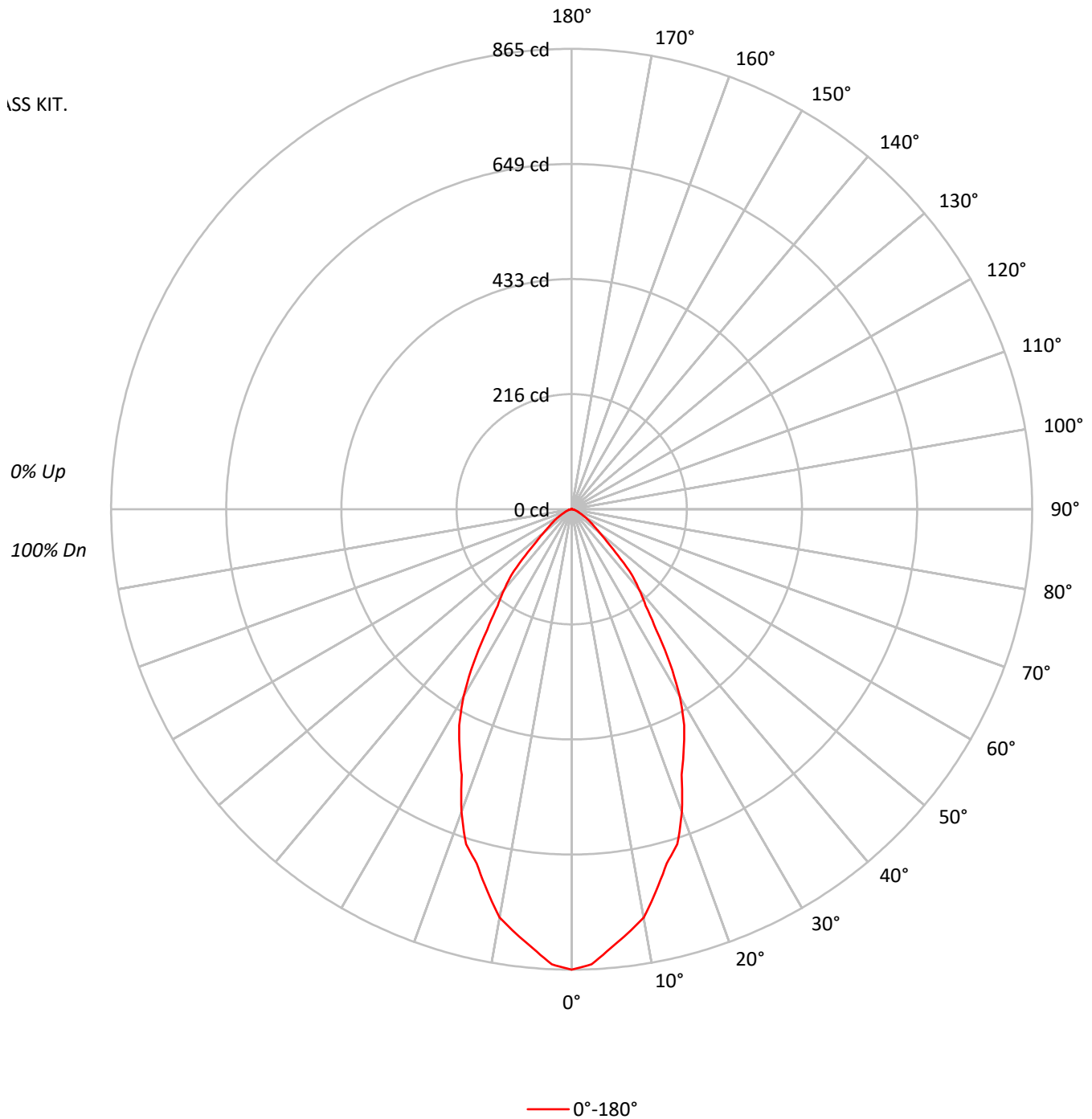
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 845.7 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89  
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

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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 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  | 95  | 93  | 92  |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 95  | 92  | 89  |  | 92  | 90  | 87  |  | 90  | 87  | 85  | 83  |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 88  | 84  | 80  |  | 86  | 82  | 79  |  | 84  | 81  | 78  | 76  |
| 4   | 94  | 86  | 79  | 75  | 92  | 84  | 79  | 74  | 82  | 77  | 73  |  | 80  | 76  | 72  |  | 78  | 74  | 71  | 70  |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  | 76  | 71  | 67  |  | 75  | 70  | 66  |  | 73  | 69  | 66  | 64  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 61  | 59  |
| 7   | 79  | 69  | 62  | 58  | 78  | 68  | 62  | 57  | 67  | 61  | 57  |  | 66  | 60  | 57  |  | 64  | 60  | 56  | 55  |
| 8   | 75  | 64  | 58  | 53  | 74  | 64  | 58  | 53  | 63  | 57  | 53  |  | 62  | 56  | 53  |  | 61  | 56  | 52  | 51  |
| 9   | 71  | 60  | 54  | 50  | 70  | 60  | 54  | 50  | 59  | 53  | 49  |  | 58  | 53  | 49  |  | 57  | 52  | 49  | 48  |
| 10  | 67  | 57  | 51  | 46  | 66  | 56  | 50  | 46  | 56  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 49  | 46  | 44  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 56433 |
| 5°  | 54252 |
| 10° | 51606 |
| 15° | 46523 |
| 20° | 42031 |
| 25° | 35856 |
| 30° | 30593 |
| 35° | 22038 |
| 40° | 16820 |
| 45° | 11312 |
| 50° | 7003  |
| 55° | 5039  |
| 60° | 3667  |
| 65° | 2501  |
| 70° | 2117  |
| 75° | 1714  |
| 80° | 1616  |
| 85° | 1273  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11312 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.6   | 9.2       |
| 10°-20°   | 194.3  | 23.0      |
| 20°-30°   | 229.0  | 27.1      |
| 30°-40°   | 178.0  | 21.1      |
| 40°-50°   | 97.7   | 11.5      |
| 50°-60°   | 40.7   | 4.8       |
| 60°-70°   | 17.2   | 2.0       |
| 70°-80°   | 7.4    | 0.9       |
| 80°-90°   | 2.1    | 0.3       |
| 90°-100°  | 1.0    | 0.1       |
| 100°-110° | 0.6    | 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°    | 500.9  | 59.2      |
| 0°-40°    | 678.9  | 80.3      |
| 0°-60°    | 817.3  | 96.6      |
| 0°-90°    | 844.1  | 99.8      |
| 90°-120°  | 1.6    | 0.2       |
| 90°-150°  | 1.6    | 0.2       |
| 90°-180°  | 2.0    | 0.2       |
| 0°-180°   | 845.7  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | Flux |
|------|-----|------|
| 0°   | 865 |      |
| 5°   | 828 | 78   |
| 15°  | 689 | 194  |
| 25°  | 498 | 229  |
| 35°  | 277 | 178  |
| 45°  | 123 | 98   |
| 55°  | 44  | 41   |
| 65°  | 16  | 17   |
| 75°  | 7   | 7    |
| 85°  | 2   | 2    |
| 90°  | 1   | 0    |
| 95°  | 1   | 1    |
| 105° | 1   | 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°     | 865.0 |
| 2.5°   | 855.7 |
| 5°     | 828.4 |
| 7.5°   | 803.7 |
| 10°    | 779.0 |
| 12.5°  | 733.9 |
| 15°    | 688.8 |
| 17.5°  | 659.8 |
| 20°    | 605.4 |
| 22.5°  | 539.8 |
| 25°    | 498.1 |
| 27.5°  | 457.2 |
| 30°    | 406.1 |
| 32.5°  | 344.0 |
| 35°    | 276.7 |
| 37.5°  | 228.2 |
| 40°    | 197.5 |
| 42.5°  | 167.7 |
| 45°    | 122.6 |
| 47.5°  | 88.5  |
| 50°    | 69.0  |
| 52.5°  | 54.5  |
| 55°    | 44.3  |
| 57.5°  | 35.8  |
| 60°    | 28.1  |
| 62.5°  | 20.4  |
| 65°    | 16.2  |
| 67.5°  | 13.6  |
| 70°    | 11.1  |
| 72.5°  | 8.5   |
| 75°    | 6.8   |
| 77.5°  | 5.1   |
| 80°    | 4.3   |
| 82.5°  | 2.6   |
| 85°    | 1.7   |
| 87.5°  | 0.9   |
| 90°    | 0.9   |
| 92.5°  | 0.9   |
| 95°    | 0.9   |
| 97.5°  | 0.9   |
| 100°   | 0.9   |
| 102.5° | 0.9   |
| 105°   | 0.9   |
| 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)