

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: P702107

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-FF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

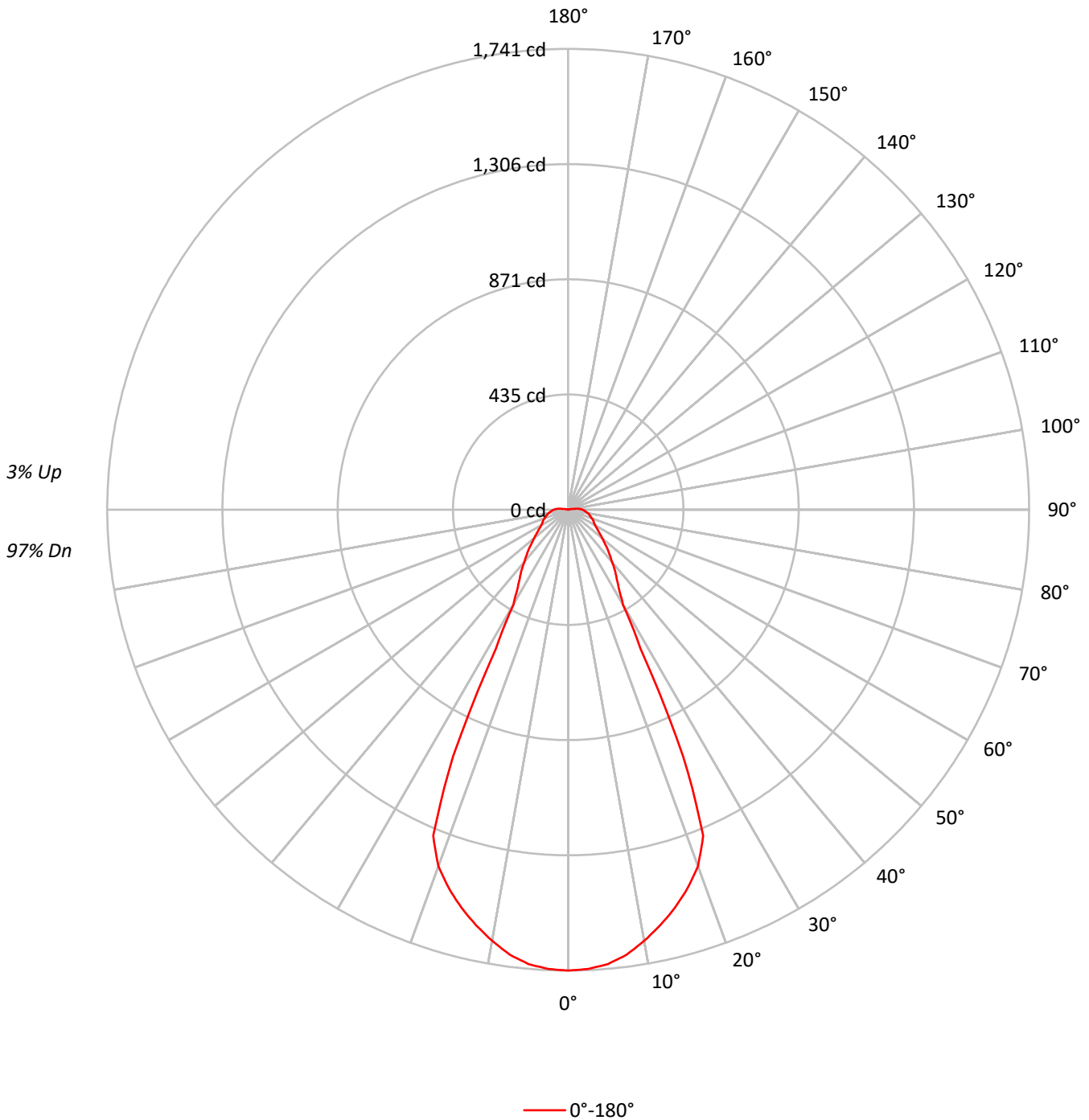
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1833.4 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73  
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

TEST NUMBER: P702107

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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 | 110 | 110 | 110 |  | 104 | 104 | 104 |  | 100 | 100 | 100 | 97 |
| 1   | 109 | 105 | 102 | 98  | 107 | 103 | 99  | 96  | 98  | 95  | 93  |  | 94  | 92  | 90  |  | 90  | 88  | 86  | 84 |
| 2   | 102 | 95  | 89  | 85  | 99  | 93  | 88  | 83  | 89  | 85  | 81  |  | 86  | 82  | 79  |  | 82  | 80  | 77  | 75 |
| 3   | 95  | 87  | 80  | 75  | 93  | 85  | 79  | 74  | 82  | 77  | 72  |  | 79  | 75  | 71  |  | 76  | 73  | 69  | 67 |
| 4   | 89  | 80  | 73  | 67  | 87  | 78  | 72  | 67  | 76  | 70  | 65  |  | 73  | 68  | 64  |  | 71  | 67  | 63  | 61 |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 70  | 64  | 60  |  | 68  | 63  | 59  |  | 66  | 62  | 58  | 56 |
| 6   | 79  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  |  | 64  | 59  | 55  |  | 62  | 58  | 54  | 52 |
| 7   | 75  | 64  | 57  | 52  | 73  | 63  | 56  | 52  | 62  | 56  | 51  |  | 60  | 55  | 51  |  | 59  | 54  | 50  | 49 |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 51  | 47  |  | 55  | 51  | 47  | 45 |
| 9   | 68  | 57  | 50  | 45  | 66  | 56  | 50  | 45  | 55  | 49  | 45  |  | 54  | 48  | 44  |  | 53  | 48  | 44  | 43 |
| 10  | 64  | 53  | 47  | 43  | 63  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 50  | 45  | 42  | 40 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 201950 |
| 5°  | 174641 |
| 10° | 149901 |
| 15° | 128519 |
| 20° | 109321 |
| 25° | 73443  |
| 30° | 28001  |
| 35° | 20682  |
| 40° | 16087  |
| 45° | 12726  |
| 50° | 10021  |
| 55° | 8149   |
| 60° | 6905   |
| 65° | 6257   |
| 70° | 5646   |
| 75° | 5199   |
| 80° | 4770   |
| 85° | 4200   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12726 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.2  | 8.8       |
| 10°-20°   | 436.8  | 23.8      |
| 20°-30°   | 432.1  | 23.6      |
| 30°-40°   | 202.6  | 11.1      |
| 40°-50°   | 161.8  | 8.8       |
| 50°-60°   | 124.9  | 6.8       |
| 60°-70°   | 104.9  | 5.7       |
| 70°-80°   | 90.0   | 4.9       |
| 80°-90°   | 70.2   | 3.8       |
| 90°-100°  | 40.5   | 2.2       |
| 100°-110° | 7.4    | 0.4       |
| 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°    | 1031.1 | 56.2      |
| 0°-40°    | 1233.7 | 67.3      |
| 0°-60°    | 1520.5 | 82.9      |
| 0°-90°    | 1785.5 | 97.4      |
| 90°-120°  | 47.9   | 2.6       |
| 90°-150°  | 47.9   | 2.6       |
| 90°-180°  | 48.0   | 2.6       |
| 0°-180°   | 1833.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1741 |      |
| 5°   | 1723 | 162  |
| 15°  | 1557 | 437  |
| 25°  | 1028 | 432  |
| 35°  | 320  | 203  |
| 45°  | 209  | 162  |
| 55°  | 138  | 125  |
| 65°  | 106  | 105  |
| 75°  | 85   | 90   |
| 85°  | 64   | 55   |
| 90°  | 53   | 29   |
| 95°  | 39   | 27   |
| 105° | 5    | 7    |
| 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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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-FF

**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 1741.2 |
| 2.5°   | 1736.6 |
| 5°     | 1722.8 |
| 7.5°   | 1695.2 |
| 10°    | 1653.8 |
| 12.5°  | 1607.8 |
| 15°    | 1557.2 |
| 17.5°  | 1499.7 |
| 20°    | 1433.0 |
| 22.5°  | 1331.8 |
| 25°    | 1028.2 |
| 27.5°  | 591.1  |
| 30°    | 414.0  |
| 32.5°  | 356.5  |
| 35°    | 319.7  |
| 37.5°  | 289.8  |
| 40°    | 257.6  |
| 42.5°  | 232.3  |
| 45°    | 209.3  |
| 47.5°  | 186.3  |
| 50°    | 167.9  |
| 52.5°  | 151.8  |
| 55°    | 138.0  |
| 57.5°  | 126.5  |
| 60°    | 117.3  |
| 62.5°  | 110.4  |
| 65°    | 105.8  |
| 67.5°  | 101.2  |
| 70°    | 94.3   |
| 72.5°  | 89.7   |
| 75°    | 85.1   |
| 77.5°  | 80.5   |
| 80°    | 75.9   |
| 82.5°  | 69.0   |
| 85°    | 64.4   |
| 87.5°  | 59.8   |
| 90°    | 52.9   |
| 92.5°  | 48.3   |
| 95°    | 39.1   |
| 97.5°  | 25.3   |
| 100°   | 18.4   |
| 102.5° | 11.5   |
| 105°   | 4.6    |
| 107.5° | 2.3    |
| 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)