

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: P702090

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9027-4LBW1LI-CC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

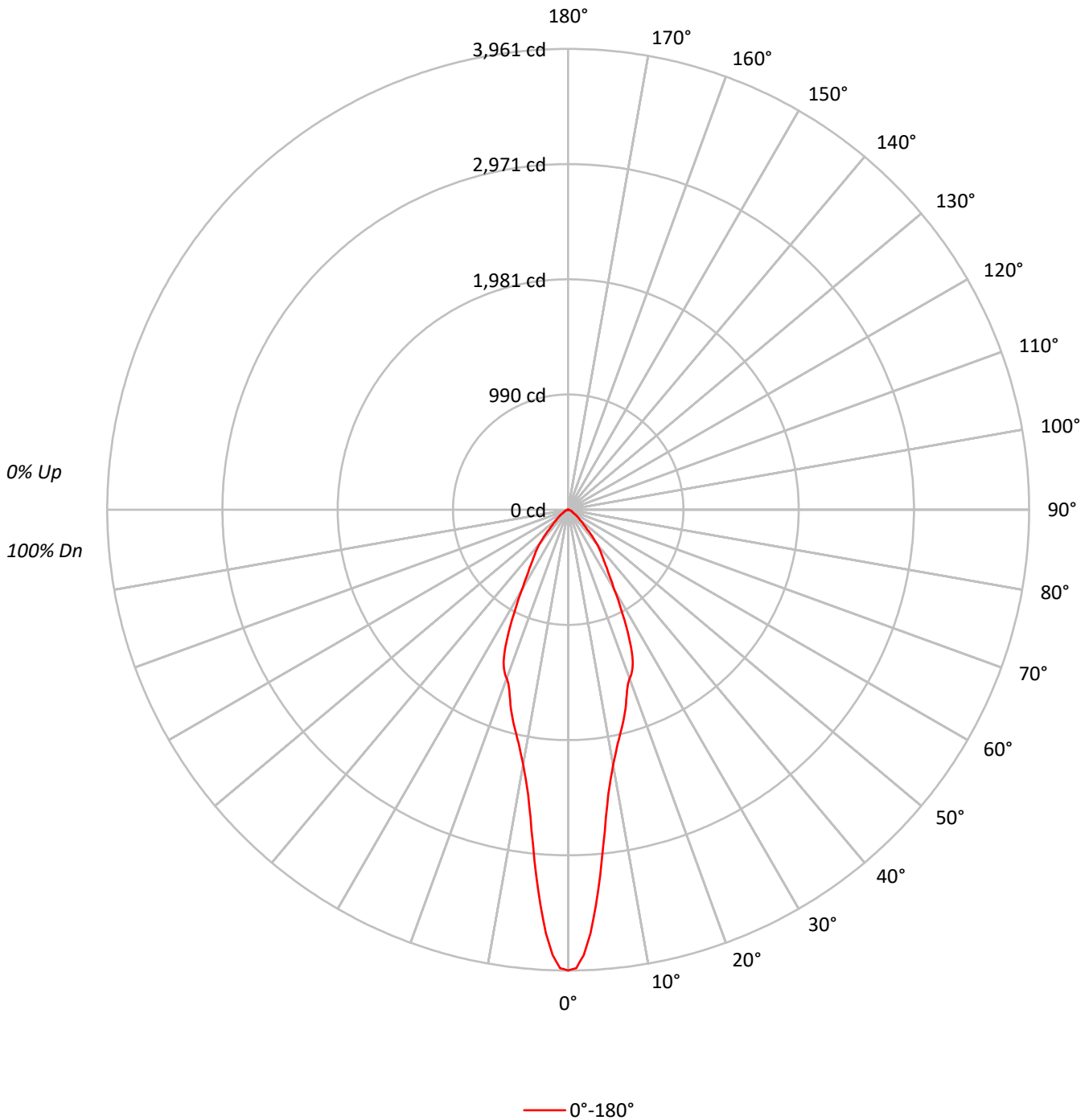
Lumens per Lamp: N/A  
Luminaire Lumens: 1980.3 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

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 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 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  | 85  | 91  | 87  | 83  |  | 88  | 85  | 82  |  | 86  | 83  | 81  | 79  |
| 4   | 96  | 88  | 82  | 78  | 94  | 87  | 82  | 78  | 85  | 80  | 77  |  | 83  | 79  | 76  |  | 81  | 78  | 75  | 73  |
| 5   | 91  | 82  | 76  | 72  | 89  | 82  | 76  | 72  | 80  | 75  | 71  |  | 78  | 74  | 70  |  | 76  | 73  | 70  | 68  |
| 6   | 87  | 77  | 71  | 67  | 85  | 77  | 71  | 67  | 75  | 70  | 66  |  | 74  | 69  | 66  |  | 72  | 68  | 65  | 64  |
| 7   | 82  | 73  | 67  | 62  | 81  | 72  | 66  | 62  | 71  | 66  | 62  |  | 70  | 65  | 61  |  | 68  | 64  | 61  | 60  |
| 8   | 78  | 69  | 63  | 58  | 77  | 68  | 62  | 58  | 67  | 62  | 58  |  | 66  | 61  | 58  |  | 65  | 61  | 57  | 56  |
| 9   | 75  | 65  | 59  | 55  | 74  | 64  | 59  | 55  | 63  | 58  | 55  |  | 63  | 58  | 54  |  | 62  | 57  | 54  | 53  |
| 10  | 71  | 62  | 56  | 52  | 70  | 61  | 55  | 52  | 60  | 55  | 52  |  | 59  | 55  | 51  |  | 59  | 54  | 51  | 50  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 459398 |
| 5°  | 366940 |
| 10° | 262267 |
| 15° | 222354 |
| 20° | 190596 |
| 25° | 161336 |
| 30° | 106029 |
| 35° | 75665  |
| 40° | 57791  |
| 45° | 33986  |
| 50° | 22428  |
| 55° | 16318  |
| 60° | 10624  |
| 65° | 9578   |
| 70° | 8139   |
| 75° | 5870   |
| 80° | 4341   |
| 85° | 2928   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 33986 cd/sqm

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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 268.0  | 13.5      |
| 10°-20°   | 515.0  | 26.0      |
| 20°-30°   | 556.2  | 28.1      |
| 30°-40°   | 343.6  | 17.3      |
| 40°-50°   | 172.1  | 8.7       |
| 50°-60°   | 72.2   | 3.6       |
| 60°-70°   | 34.0   | 1.7       |
| 70°-80°   | 14.9   | 0.8       |
| 80°-90°   | 3.3    | 0.2       |
| 90°-100°  | 0.3    | 0.0       |
| 100°-110° | 0.9    | 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°    | 1339.1 | 67.6      |
| 0°-40°    | 1682.7 | 85.0      |
| 0°-60°    | 1926.9 | 97.3      |
| 0°-90°    | 1979.1 | 99.9      |
| 90°-120°  | 1.2    | 0.1       |
| 90°-150°  | 1.2    | 0.1       |
| 90°-180°  | 1.0    | 0.1       |
| 0°-180°   | 1980.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 3961 |      |
| 5°   | 3152 | 268  |
| 15°  | 1852 | 515  |
| 25°  | 1261 | 556  |
| 35°  | 534  | 344  |
| 45°  | 207  | 172  |
| 55°  | 81   | 72   |
| 65°  | 35   | 34   |
| 75°  | 13   | 15   |
| 85°  | 2    | 3    |
| 90°  | 0    | 0    |
| 95°  | 0    | 1    |
| 105° | 0    | 1    |
| 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: P702090

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3960.9 |
| 1°    | 3941.2 |
| 2°    | 3830.0 |
| 3°    | 3646.8 |
| 4°    | 3409.1 |
| 5°    | 3151.7 |
| 6°    | 2894.3 |
| 7°    | 2660.9 |
| 8°    | 2475.5 |
| 9°    | 2336.0 |
| 10°   | 2226.9 |
| 11°   | 2133.1 |
| 12°   | 2052.4 |
| 13°   | 1982.6 |
| 14°   | 1919.4 |
| 15°   | 1851.8 |
| 16°   | 1784.1 |
| 17°   | 1707.8 |
| 18°   | 1638.0 |
| 19°   | 1581.3 |
| 20°   | 1544.2 |
| 21°   | 1513.7 |
| 22°   | 1474.4 |
| 23°   | 1419.9 |
| 24°   | 1345.7 |
| 25°   | 1260.7 |
| 27.5° | 1014.2 |
| 30°   | 791.7  |
| 32.5° | 639.1  |
| 35°   | 534.4  |
| 37.5° | 458.0  |
| 40°   | 381.7  |
| 42.5° | 285.7  |
| 45°   | 207.2  |
| 47.5° | 157.0  |
| 50°   | 124.3  |
| 52.5° | 102.5  |
| 55°   | 80.7   |
| 57.5° | 56.7   |
| 60°   | 45.8   |
| 62.5° | 39.3   |
| 65°   | 34.9   |
| 67.5° | 28.4   |
| 70°   | 24.0   |
| 72.5° | 17.4   |

TEST NUMBER: P702090

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 75°    | 13.1 |
| 77.5°  | 10.9 |
| 80°    | 6.5  |
| 82.5°  | 4.4  |
| 85°    | 2.2  |
| 87.5°  | 2.2  |
| 90°    | 0.0  |
| 92.5°  | 0.0  |
| 95°    | 0.0  |
| 97.5°  | 0.0  |
| 100°   | 2.2  |
| 102.5° | 2.2  |
| 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)