

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: P702631

Luminaire Tested: 340-6C-30-D010 / 340-EU4C-3040-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-30-D010 / 340-EU4C-3040-9727-4LBW1LI-CQ  
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 2700K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

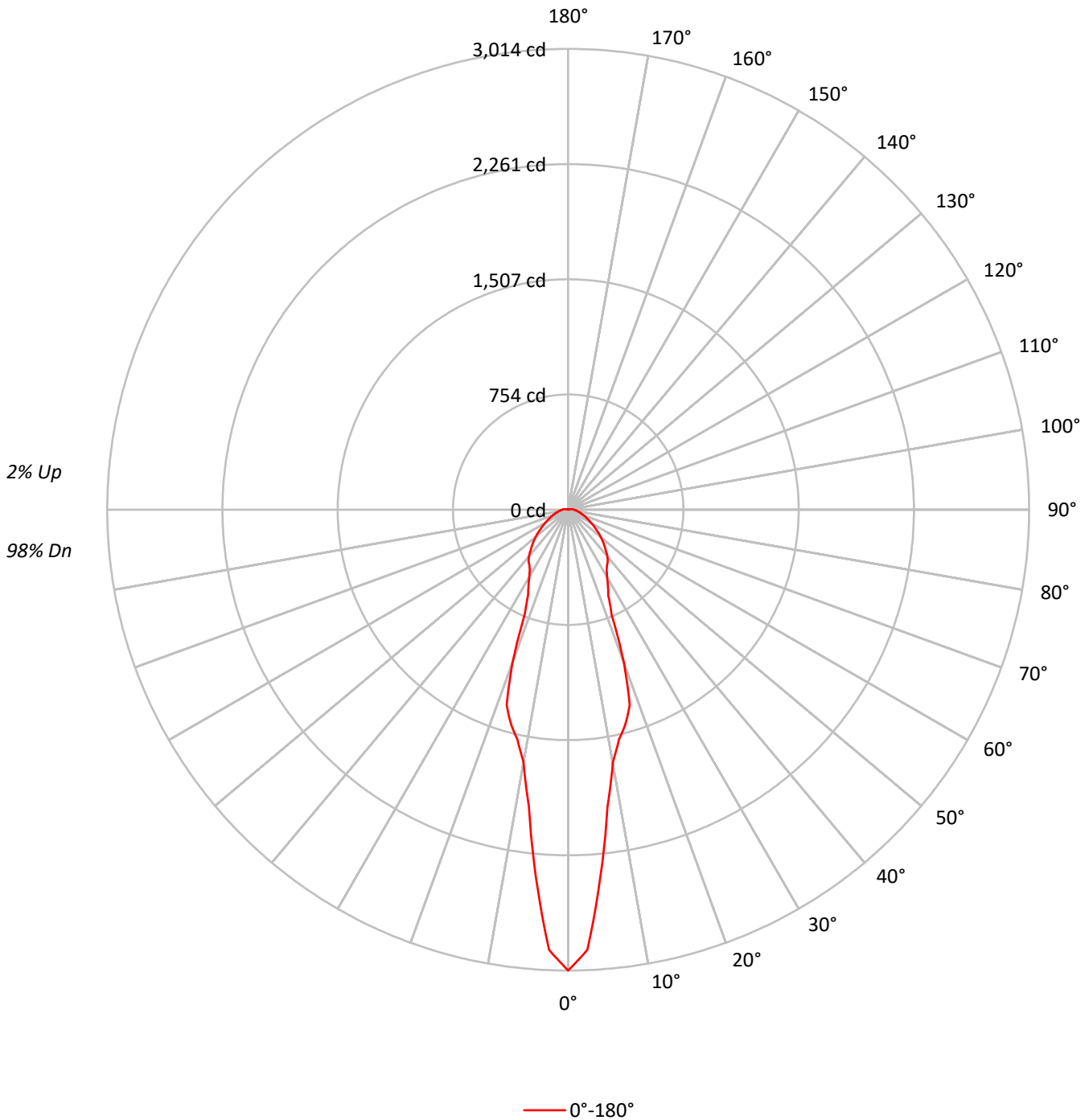
Lumens per Lamp: N/A  
Luminaire Lumens: 1970.8 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

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 | 110 | 110 | 110 |  | 105 | 105 | 105 |  | 100 | 100 | 100 | 98 |
| 1   | 110 | 105 | 102 | 98  | 107 | 103 | 100 | 97  | 98  | 96  | 93  |  | 94  | 92  | 90  |  | 90  | 89  | 87  | 85 |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 87  | 83  | 89  | 84  | 81  |  | 85  | 82  | 78  |  | 82  | 79  | 76  | 74 |
| 3   | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 72  | 81  | 75  | 71  |  | 78  | 73  | 70  |  | 75  | 71  | 68  | 66 |
| 4   | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 63  |  | 72  | 67  | 62  |  | 69  | 65  | 61  | 59 |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 68  | 62  | 57  |  | 66  | 61  | 57  |  | 64  | 60  | 56  | 54 |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 63  | 57  | 52  |  | 62  | 56  | 52  |  | 60  | 55  | 51  | 49 |
| 7   | 73  | 62  | 54  | 49  | 71  | 61  | 54  | 49  | 59  | 53  | 48  |  | 58  | 52  | 48  |  | 56  | 51  | 47  | 46 |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 55  | 49  | 45  |  | 54  | 48  | 44  |  | 53  | 48  | 44  | 42 |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 45  | 41  |  | 50  | 45  | 41  | 40 |
| 10  | 62  | 51  | 44  | 40  | 61  | 50  | 44  | 39  | 49  | 43  | 39  |  | 48  | 43  | 39  |  | 47  | 42  | 39  | 37 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 196648 |
| 5°  | 141264 |
| 10° | 89629  |
| 15° | 71758  |
| 20° | 49365  |
| 25° | 27368  |
| 30° | 21458  |
| 35° | 18023  |
| 40° | 15834  |
| 45° | 13132  |
| 50° | 10781  |
| 55° | 8539   |
| 60° | 6801   |
| 65° | 5352   |
| 70° | 4261   |
| 75° | 3435   |
| 80° | 2777   |
| 85° | 2289   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13132 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 206.3  | 10.5      |
| 10°-20°   | 395.9  | 20.1      |
| 20°-30°   | 307.3  | 15.6      |
| 30°-40°   | 279.6  | 14.2      |
| 40°-50°   | 259.3  | 13.2      |
| 50°-60°   | 199.6  | 10.1      |
| 60°-70°   | 136.6  | 6.9       |
| 70°-80°   | 88.7   | 4.5       |
| 80°-90°   | 55.2   | 2.8       |
| 90°-100°  | 32.0   | 1.6       |
| 100°-110° | 10.1   | 0.5       |
| 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°    | 909.4  | 46.1      |
| 0°-40°    | 1189.0 | 60.3      |
| 0°-60°    | 1648.0 | 83.6      |
| 0°-90°    | 1928.4 | 97.8      |
| 90°-120°  | 42.4   | 2.2       |
| 90°-150°  | 42.4   | 2.2       |
| 90°-180°  | 42.0   | 2.1       |
| 0°-180°   | 1970.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 3014 |      |
| 5°   | 2414 | 206  |
| 15°  | 1450 | 396  |
| 25°  | 621  | 307  |
| 35°  | 442  | 280  |
| 45°  | 336  | 259  |
| 55°  | 221  | 200  |
| 65°  | 136  | 137  |
| 75°  | 83   | 89   |
| 85°  | 51   | 44   |
| 90°  | 37   | 21   |
| 95°  | 30   | 22   |
| 105° | 9    | 10   |
| 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°     | 3014.2 |
| 2.5°   | 2880.8 |
| 5°     | 2413.7 |
| 7.5°   | 1962.7 |
| 10°    | 1677.4 |
| 12.5°  | 1537.0 |
| 15°    | 1449.6 |
| 17.5°  | 1336.8 |
| 20°    | 1063.0 |
| 22.5°  | 743.2  |
| 25°    | 621.3  |
| 27.5°  | 561.4  |
| 30°    | 508.5  |
| 32.5°  | 467.1  |
| 35°    | 441.8  |
| 37.5°  | 425.7  |
| 40°    | 398.1  |
| 42.5°  | 365.8  |
| 45°    | 335.9  |
| 47.5°  | 306.0  |
| 50°    | 278.4  |
| 52.5°  | 248.5  |
| 55°    | 220.9  |
| 57.5°  | 197.9  |
| 60°    | 174.9  |
| 62.5°  | 154.2  |
| 65°    | 135.8  |
| 67.5°  | 121.9  |
| 70°    | 105.8  |
| 72.5°  | 94.3   |
| 75°    | 82.8   |
| 77.5°  | 73.6   |
| 80°    | 64.4   |
| 82.5°  | 57.5   |
| 85°    | 50.6   |
| 87.5°  | 43.7   |
| 90°    | 36.8   |
| 92.5°  | 34.5   |
| 95°    | 29.9   |
| 97.5°  | 25.3   |
| 100°   | 18.4   |
| 102.5° | 13.8   |
| 105°   | 9.2    |
| 107.5° | 4.6    |
| 110°   | 2.3    |

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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)