

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: SHAPER

Report Number: P229204

Luminaire Tested: **340-6B-40-D010 / 340-EU6B-3040-9030-6LBW1LI-CF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-12)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 340-6B-40-D010 / 340-EU6B-3040-9030-6LBW1LI-CF  
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: (1) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2435.3 lumens  
Efficiency: N/A  
Efficacy: 58.3 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.55  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

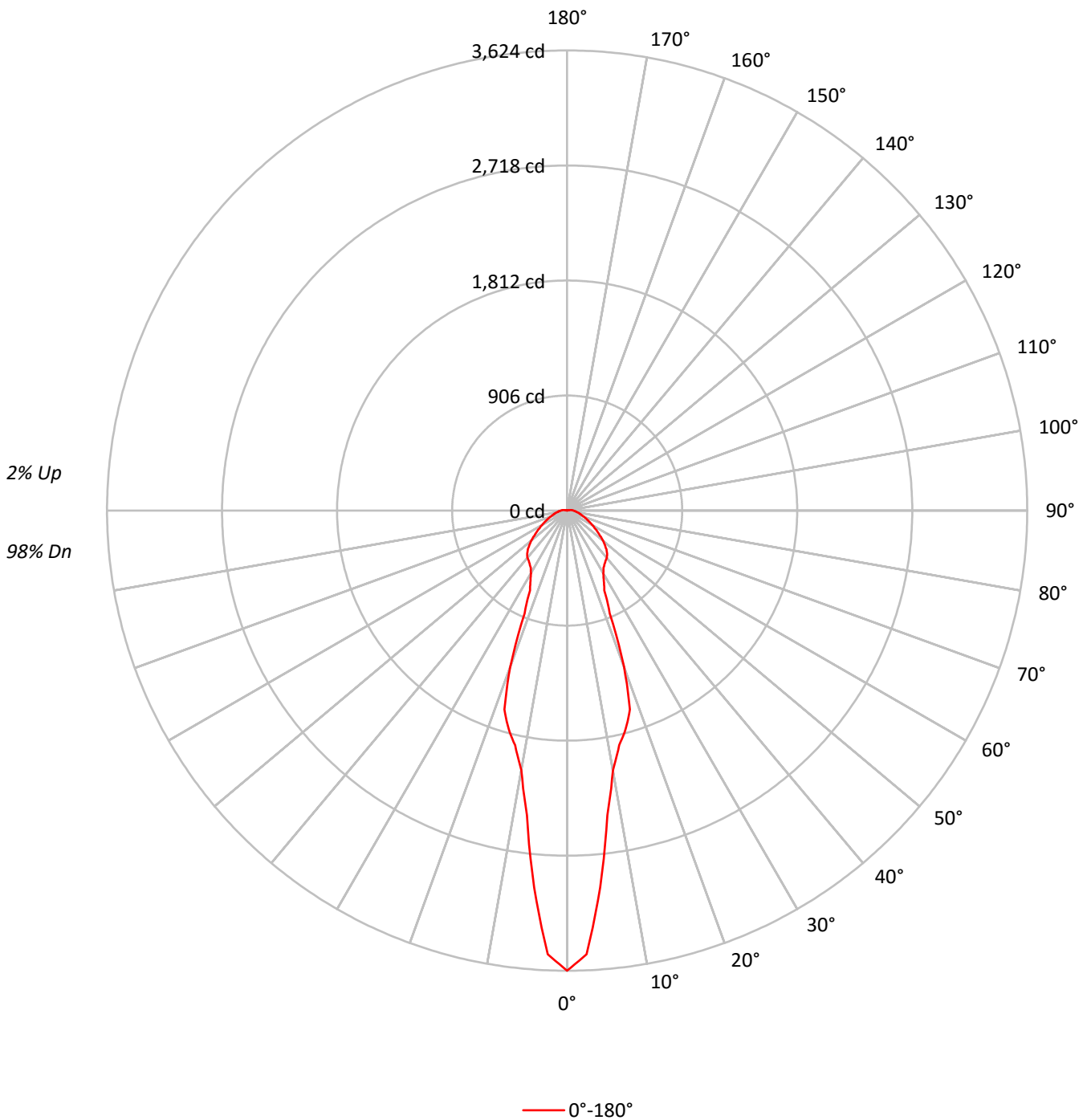
Input Watts (W): 41.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 109 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 90  | 88  | 87  | 84 |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 88  | 84  | 80  | 85  | 81  | 78  | 82  | 79  | 76  | 74 |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 72  | 80  | 75  | 70  | 77  | 73  | 69  | 75  | 71  | 67  | 65 |
| 4   | 88  | 77  | 70  | 64  | 85  | 76  | 69  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 69  | 64  | 61  | 59 |
| 5   | 82  | 71  | 63  | 58  | 80  | 70  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53 |
| 6   | 77  | 66  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 52  | 61  | 55  | 51  | 59  | 54  | 50  | 49 |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 55  | 50  | 47  | 45 |
| 8   | 69  | 57  | 50  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 43  | 42 |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 50  | 45  | 41  | 49  | 44  | 40  | 39 |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 236399 |
| 5°  | 174425 |
| 10° | 110916 |
| 15° | 88159  |
| 20° | 60789  |
| 25° | 30561  |
| 30° | 24061  |
| 35° | 20968  |
| 40° | 19326  |
| 45° | 17131  |
| 50° | 14251  |
| 55° | 11292  |
| 60° | 8955   |
| 65° | 7087   |
| 70° | 5541   |
| 75° | 4427   |
| 80° | 3635   |
| 85° | 2923   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 253.7  | 10.4      |
| 10°-20°   | 487.2  | 20.0      |
| 20°-30°   | 353.8  | 14.5      |
| 30°-40°   | 324.6  | 13.3      |
| 40°-50°   | 334.8  | 13.7      |
| 50°-60°   | 263.1  | 10.8      |
| 60°-70°   | 178.9  | 7.3       |
| 70°-80°   | 114.6  | 4.7       |
| 80°-90°   | 70.8   | 2.9       |
| 90°-100°  | 41.0   | 1.7       |
| 100°-110° | 12.3   | 0.5       |
| 110°-120° | 0.4    | 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°    | 1094.8 | 45.0      |
| 0°-40°    | 1419.4 | 58.3      |
| 0°-60°    | 2017.3 | 82.8      |
| 0°-90°    | 2381.6 | 97.8      |
| 90°-120°  | 53.7   | 2.2       |
| 90°-150°  | 53.7   | 2.2       |
| 90°-180°  | 54.0   | 2.2       |
| 0°-180°   | 2435.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 3624 |      |
| 5°   | 2980 | 254  |
| 15°  | 1781 | 487  |
| 25°  | 694  | 354  |
| 35°  | 514  | 325  |
| 45°  | 438  | 335  |
| 55°  | 292  | 263  |
| 65°  | 180  | 179  |
| 75°  | 107  | 115  |
| 85°  | 65   | 57   |
| 90°  | 48   | 27   |
| 95°  | 39   | 28   |
| 105° | 11   | 12   |
| 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°     | 3623.5 |
| 2.5°   | 3497.1 |
| 5°     | 2980.3 |
| 7.5°   | 2421.3 |
| 10°    | 2075.8 |
| 12.5°  | 1893.2 |
| 15°    | 1780.9 |
| 17.5°  | 1643.2 |
| 20°    | 1309.0 |
| 22.5°  | 876.4  |
| 25°    | 693.8  |
| 27.5°  | 623.6  |
| 30°    | 570.2  |
| 32.5°  | 533.7  |
| 35°    | 514.0  |
| 37.5°  | 497.2  |
| 40°    | 485.9  |
| 42.5°  | 466.3  |
| 45°    | 438.2  |
| 47.5°  | 404.5  |
| 50°    | 368.0  |
| 52.5°  | 328.6  |
| 55°    | 292.1  |
| 57.5°  | 258.4  |
| 60°    | 230.3  |
| 62.5°  | 202.2  |
| 65°    | 179.8  |
| 67.5°  | 157.3  |
| 70°    | 137.6  |
| 72.5°  | 120.8  |
| 75°    | 106.7  |
| 77.5°  | 95.5   |
| 80°    | 84.3   |
| 82.5°  | 73.0   |
| 85°    | 64.6   |
| 87.5°  | 56.2   |
| 90°    | 47.8   |
| 92.5°  | 44.9   |
| 95°    | 39.3   |
| 97.5°  | 30.9   |
| 100°   | 22.5   |
| 102.5° | 16.9   |
| 105°   | 11.2   |
| 107.5° | 5.6    |
| 110°   | 2.8    |



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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)