

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: P229290

Luminaire Tested: **340-6B-40-D010 / 340-EU6B-3040-9027-6LBW1LI-GFC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-15)  
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-3040-9027-6LBW1LI-GFC  
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE GLASS KIT.  
Light Source: (1) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2375.0 lumens  
Efficiency: N/A  
Efficacy: 56.8 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.74  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

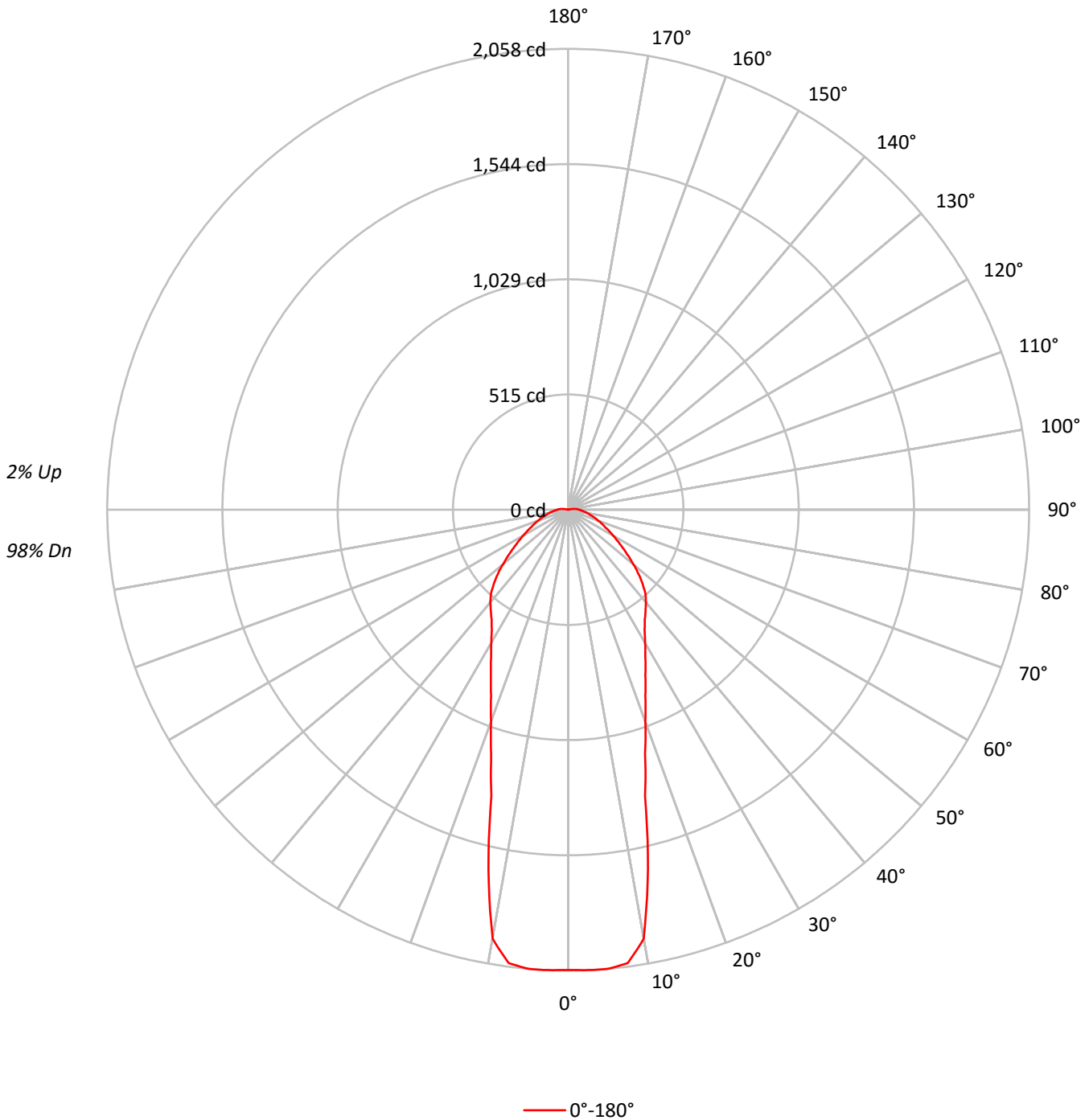
Input Watts (W): 41.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 97  | 106 | 102 | 99  | 96  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84 |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 84  | 80  | 77  | 81  | 78  | 75  | 73 |
| 3   | 93  | 84  | 76  | 71  | 91  | 82  | 75  | 70  | 79  | 73  | 69  | 76  | 71  | 67  | 73  | 69  | 66  | 64 |
| 4   | 86  | 76  | 68  | 62  | 84  | 74  | 67  | 61  | 72  | 65  | 60  | 69  | 64  | 60  | 67  | 62  | 59  | 57 |
| 5   | 81  | 69  | 61  | 55  | 78  | 68  | 60  | 55  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 51 |
| 6   | 75  | 63  | 55  | 50  | 73  | 62  | 55  | 49  | 60  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46 |
| 7   | 71  | 58  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 49  | 44  | 54  | 49  | 44  | 53  | 48  | 44  | 42 |
| 8   | 66  | 54  | 47  | 41  | 65  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 38 |
| 9   | 63  | 51  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 36 |
| 10  | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 44  | 38  | 35  | 33 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 134096 |
| 5°  | 120452 |
| 10° | 103911 |
| 15° | 65511  |
| 20° | 46783  |
| 25° | 35931  |
| 30° | 28948  |
| 35° | 24350  |
| 40° | 21486  |
| 45° | 18374  |
| 50° | 14747  |
| 55° | 11485  |
| 60° | 9033   |
| 65° | 7134   |
| 70° | 5763   |
| 75° | 4593   |
| 80° | 3725   |
| 85° | 2932   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 193.5  | 8.1       |
| 10°-20°   | 382.0  | 16.1      |
| 20°-30°   | 378.4  | 15.9      |
| 30°-40°   | 377.1  | 15.9      |
| 40°-50°   | 359.9  | 15.2      |
| 50°-60°   | 268.6  | 11.3      |
| 60°-70°   | 182.1  | 7.7       |
| 70°-80°   | 118.7  | 5.0       |
| 80°-90°   | 72.1   | 3.0       |
| 90°-100°  | 37.6   | 1.6       |
| 100°-110° | 5.1    | 0.2       |
| 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°    | 953.9  | 40.2      |
| 0°-40°    | 1331.0 | 56.0      |
| 0°-60°    | 1959.5 | 82.5      |
| 0°-90°    | 2332.4 | 98.2      |
| 90°-120°  | 42.7   | 1.8       |
| 90°-150°  | 42.7   | 1.8       |
| 90°-180°  | 43.0   | 1.8       |
| 0°-180°   | 2375.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 2055 |      |
| 5°   | 2058 | 194  |
| 15°  | 1323 | 382  |
| 25°  | 816  | 378  |
| 35°  | 597  | 377  |
| 45°  | 470  | 360  |
| 55°  | 297  | 269  |
| 65°  | 181  | 182  |
| 75°  | 111  | 119  |
| 85°  | 65   | 58   |
| 90°  | 49   | 27   |
| 95°  | 35   | 25   |
| 105° | 3    | 5    |
| 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°     | 2055.4 |
| 2.5°   | 2058.1 |
| 5°     | 2058.1 |
| 7.5°   | 2041.9 |
| 10°    | 1944.7 |
| 12.5°  | 1644.9 |
| 15°    | 1323.4 |
| 17.5°  | 1142.5 |
| 20°    | 1007.4 |
| 22.5°  | 899.4  |
| 25°    | 815.7  |
| 27.5°  | 745.5  |
| 30°    | 686.0  |
| 32.5°  | 634.7  |
| 35°    | 596.9  |
| 37.5°  | 567.2  |
| 40°    | 540.2  |
| 42.5°  | 510.5  |
| 45°    | 470.0  |
| 47.5°  | 426.7  |
| 50°    | 380.8  |
| 52.5°  | 337.6  |
| 55°    | 297.1  |
| 57.5°  | 262.0  |
| 60°    | 232.3  |
| 62.5°  | 205.3  |
| 65°    | 181.0  |
| 67.5°  | 162.1  |
| 70°    | 143.1  |
| 72.5°  | 126.9  |
| 75°    | 110.7  |
| 77.5°  | 97.2   |
| 80°    | 86.4   |
| 82.5°  | 75.6   |
| 85°    | 64.8   |
| 87.5°  | 56.7   |
| 90°    | 48.6   |
| 92.5°  | 43.2   |
| 95°    | 35.1   |
| 97.5°  | 27.0   |
| 100°   | 16.2   |
| 102.5° | 8.1    |
| 105°   | 2.7    |
| 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)