

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: P702738

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-16)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

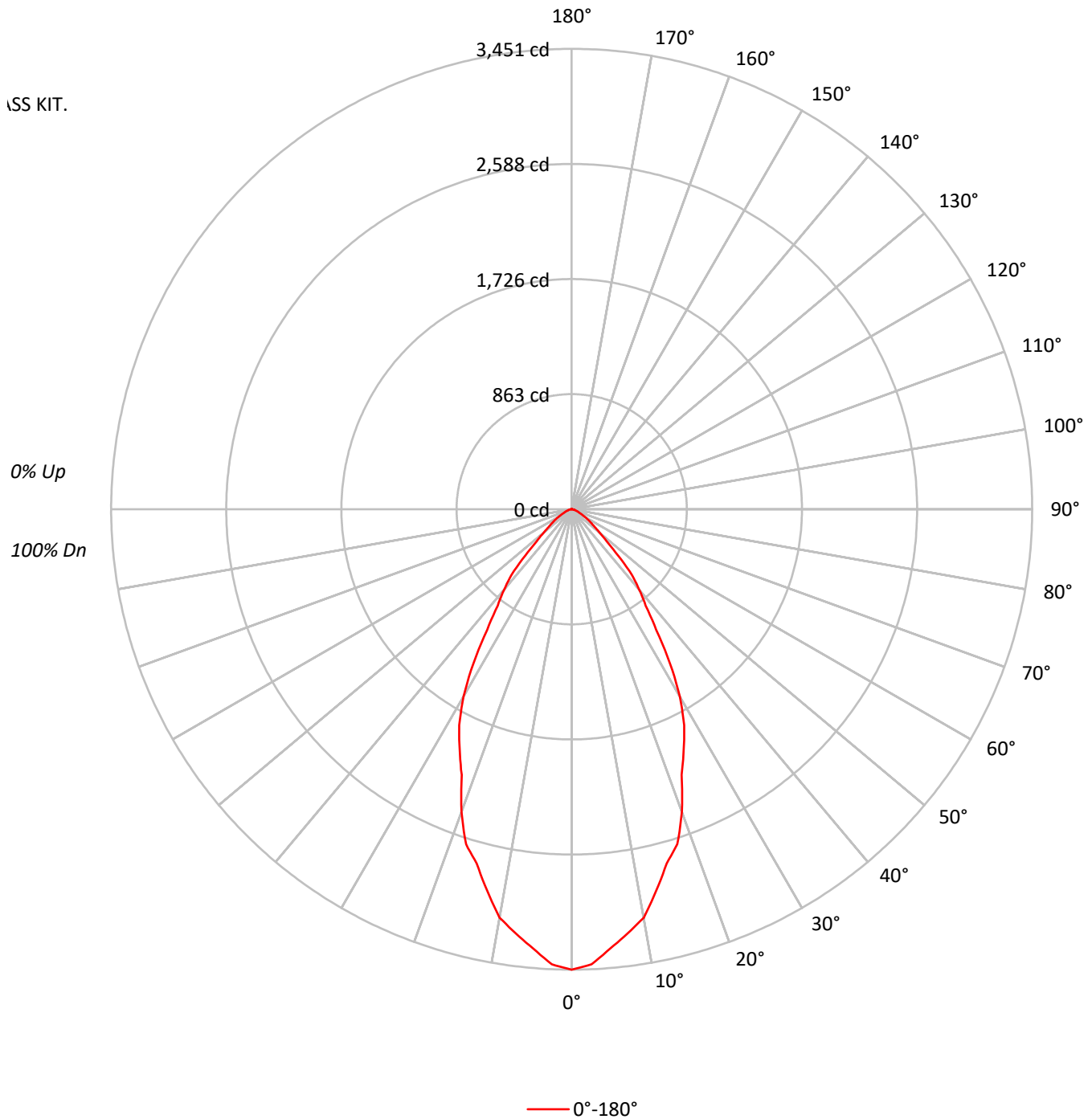
Lumens per Lamp: N/A
Luminaire Lumens: 3373.6 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P702738

CATALOG NUMBER: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

Luminous Intensity Polar Plot



TEST NUMBER: P702738

CATALOG NUMBER: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

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 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | | 99 | 98 | 96 | | 96 | 95 | 93 | 92 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 95 | 92 | 89 | | 92 | 90 | 87 | | 90 | 87 | 85 | 83 |
| 3 | 100 | 93 | 87 | 83 | 98 | 91 | 86 | 82 | 88 | 84 | 81 | | 86 | 82 | 79 | | 84 | 81 | 78 | 76 |
| 4 | 94 | 86 | 79 | 75 | 92 | 84 | 79 | 74 | 82 | 77 | 73 | | 80 | 76 | 72 | | 78 | 74 | 71 | 70 |
| 5 | 89 | 79 | 73 | 68 | 87 | 78 | 72 | 68 | 76 | 71 | 67 | | 75 | 70 | 66 | | 73 | 69 | 66 | 64 |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | | 70 | 65 | 61 | | 69 | 64 | 61 | 59 |
| 7 | 79 | 69 | 62 | 58 | 78 | 68 | 62 | 57 | 67 | 61 | 57 | | 66 | 60 | 57 | | 64 | 60 | 56 | 55 |
| 8 | 75 | 64 | 58 | 53 | 74 | 64 | 58 | 53 | 63 | 57 | 53 | | 62 | 56 | 53 | | 61 | 56 | 52 | 51 |
| 9 | 71 | 60 | 54 | 50 | 70 | 60 | 54 | 50 | 59 | 53 | 49 | | 58 | 53 | 49 | | 57 | 52 | 49 | 48 |
| 10 | 67 | 57 | 51 | 46 | 66 | 56 | 50 | 46 | 56 | 50 | 46 | | 55 | 50 | 46 | | 54 | 49 | 46 | 44 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 225165 |
| 5° | 216457 |
| 10° | 205909 |
| 15° | 185612 |
| 20° | 167682 |
| 25° | 143049 |
| 30° | 122070 |
| 35° | 87927 |
| 40° | 67119 |
| 45° | 45136 |
| 50° | 27932 |
| 55° | 20087 |
| 60° | 14627 |
| 65° | 9957 |
| 70° | 8431 |
| 75° | 6856 |
| 80° | 6387 |
| 85° | 5090 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 45136 cd/sqm

TEST NUMBER: P702738

CATALOG NUMBER: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 309.6 | 9.2 |
| 10°-20° | 775.1 | 23.0 |
| 20°-30° | 913.7 | 27.1 |
| 30°-40° | 710.4 | 21.1 |
| 40°-50° | 389.7 | 11.6 |
| 50°-60° | 162.5 | 4.8 |
| 60°-70° | 68.7 | 2.0 |
| 70°-80° | 29.6 | 0.9 |
| 80°-90° | 8.3 | 0.2 |
| 90°-100° | 3.7 | 0.1 |
| 100°-110° | 2.3 | 0.1 |
| 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° | 1998.4 | 59.2 |
| 0°-40° | 2708.8 | 80.3 |
| 0°-60° | 3261.0 | 96.7 |
| 0°-90° | 3367.6 | 99.8 |
| 90°-120° | 6.0 | 0.2 |
| 90°-150° | 6.0 | 0.2 |
| 90°-180° | 6.0 | 0.2 |
| 0°-180° | 3373.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 3451 | |
| 5° | 3305 | 310 |
| 15° | 2748 | 775 |
| 25° | 1987 | 914 |
| 35° | 1104 | 710 |
| 45° | 489 | 390 |
| 55° | 177 | 162 |
| 65° | 64 | 69 |
| 75° | 27 | 30 |
| 85° | 7 | 7 |
| 90° | 3 | 2 |
| 95° | 3 | 3 |
| 105° | 3 | 2 |
| 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: P702738

CATALOG NUMBER: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 3451.3 |
| 2.5° | 3414.0 |
| 5° | 3305.2 |
| 7.5° | 3206.7 |
| 10° | 3108.2 |
| 12.5° | 2928.2 |
| 15° | 2748.1 |
| 17.5° | 2632.6 |
| 20° | 2415.2 |
| 22.5° | 2153.7 |
| 25° | 1987.2 |
| 27.5° | 1824.2 |
| 30° | 1620.4 |
| 32.5° | 1372.4 |
| 35° | 1104.0 |
| 37.5° | 910.4 |
| 40° | 788.1 |
| 42.5° | 669.2 |
| 45° | 489.2 |
| 47.5° | 353.3 |
| 50° | 275.2 |
| 52.5° | 217.4 |
| 55° | 176.6 |
| 57.5° | 142.7 |
| 60° | 112.1 |
| 62.5° | 81.5 |
| 65° | 64.5 |
| 67.5° | 54.4 |
| 70° | 44.2 |
| 72.5° | 34.0 |
| 75° | 27.2 |
| 77.5° | 20.4 |
| 80° | 17.0 |
| 82.5° | 10.2 |
| 85° | 6.8 |
| 87.5° | 3.4 |
| 90° | 3.4 |
| 92.5° | 3.4 |
| 95° | 3.4 |
| 97.5° | 3.4 |
| 100° | 3.4 |
| 102.5° | 3.4 |
| 105° | 3.4 |
| 107.5° | 0.0 |
| 110° | 0.0 |

TEST NUMBER: P702738

CATALOG NUMBER: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

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)