

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: P702485

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

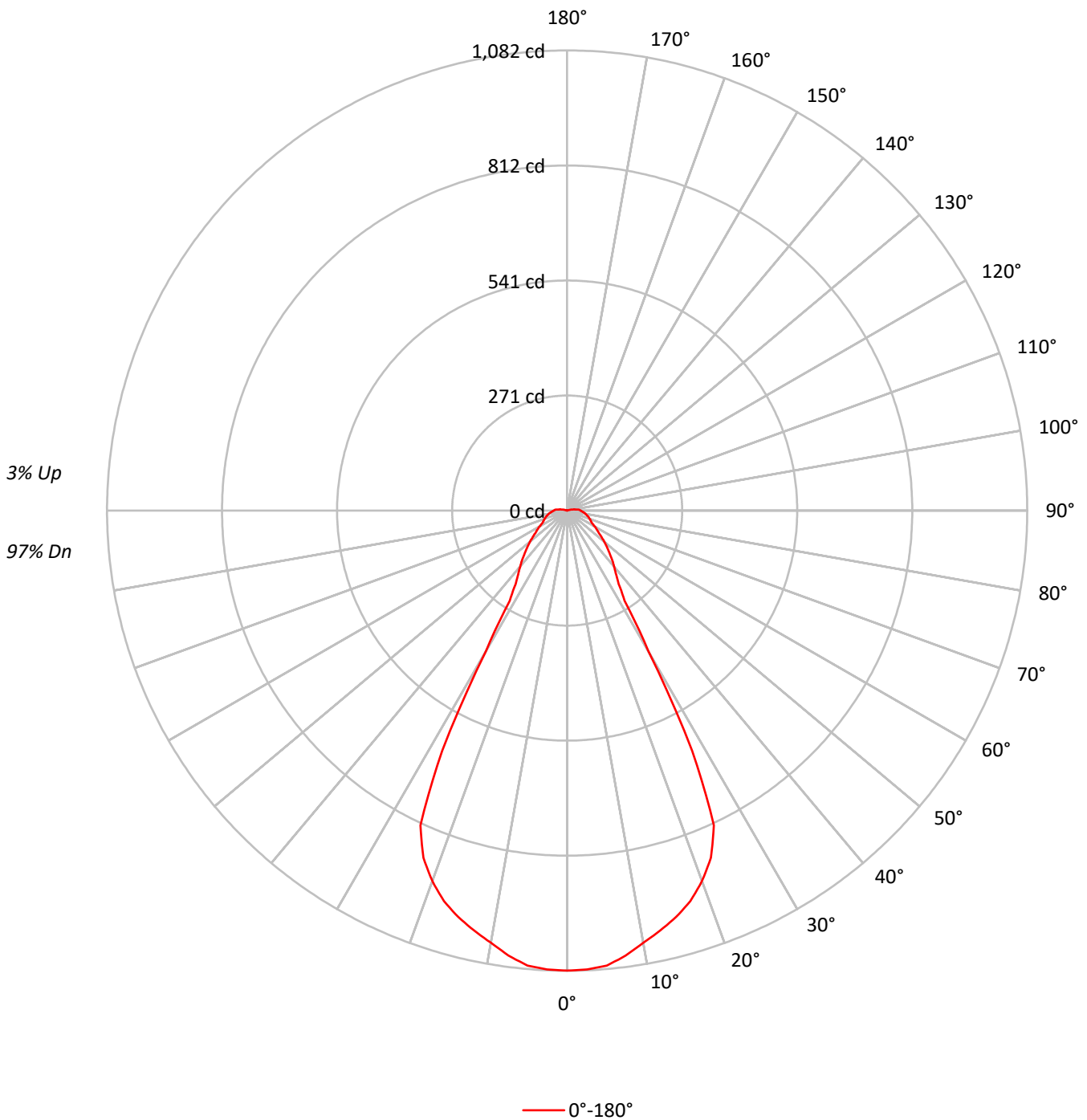
Lumens per Lamp: N/A
Luminaire Lumens: 1245.6 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 21.8
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: 24 FT

TEST NUMBER: P702485

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-FF

Luminous Intensity Polar Plot



TEST NUMBER: P702485

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-FF

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | | 104 | 104 | 104 | | 99 | 99 | 99 | 97 |
| 1 | 110 | 106 | 102 | 99 | 107 | 103 | 100 | 97 | 99 | 96 | 93 | | 94 | 92 | 90 | | 90 | 89 | 87 | 85 |
| 2 | 102 | 96 | 90 | 86 | 100 | 94 | 89 | 84 | 90 | 86 | 82 | | 86 | 83 | 80 | | 83 | 80 | 78 | 76 |
| 3 | 96 | 87 | 81 | 76 | 93 | 86 | 80 | 75 | 83 | 77 | 73 | | 80 | 75 | 72 | | 77 | 73 | 70 | 68 |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | | 74 | 69 | 65 | | 71 | 67 | 64 | 62 |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 66 | 61 | 71 | 65 | 61 | | 69 | 64 | 60 | | 67 | 62 | 59 | 57 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 66 | 60 | 56 | | 64 | 59 | 55 | | 63 | 58 | 54 | 53 |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | | 60 | 55 | 51 | | 59 | 54 | 51 | 49 |
| 8 | 71 | 60 | 53 | 49 | 70 | 60 | 53 | 48 | 58 | 52 | 48 | | 57 | 52 | 48 | | 56 | 51 | 47 | 46 |
| 9 | 68 | 57 | 50 | 45 | 66 | 56 | 50 | 45 | 55 | 49 | 45 | | 54 | 48 | 45 | | 53 | 48 | 44 | 43 |
| 10 | 64 | 53 | 47 | 43 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | | 51 | 46 | 42 | | 50 | 45 | 42 | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 70564 |
| 5° | 62845 |
| 10° | 55127 |
| 15° | 48982 |
| 20° | 43054 |
| 25° | 35957 |
| 30° | 16137 |
| 35° | 8595 |
| 40° | 6829 |
| 45° | 5493 |
| 50° | 4411 |
| 55° | 3498 |
| 60° | 2912 |
| 65° | 2459 |
| 70° | 2263 |
| 75° | 2070 |
| 80° | 1884 |
| 85° | 1697 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5493 cd/sqm

TEST NUMBER: P702485

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-FF

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.1 | 8.1 |
| 10°-20° | 278.0 | 22.3 |
| 20°-30° | 339.1 | 27.2 |
| 30°-40° | 143.6 | 11.5 |
| 40°-50° | 108.9 | 8.7 |
| 50°-60° | 82.4 | 6.6 |
| 60°-70° | 63.0 | 5.1 |
| 70°-80° | 52.8 | 4.2 |
| 80°-90° | 40.9 | 3.3 |
| 90°-100° | 27.3 | 2.2 |
| 100°-110° | 8.1 | 0.6 |
| 110°-120° | 0.6 | 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° | 718.1 | 57.6 |
| 0°-40° | 861.7 | 69.2 |
| 0°-60° | 1053.0 | 84.5 |
| 0°-90° | 1209.7 | 97.1 |
| 90°-120° | 36.0 | 2.9 |
| 90°-150° | 36.0 | 2.9 |
| 90°-180° | 36.0 | 2.9 |
| 0°-180° | 1245.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 1082 | |
| 5° | 1074 | 101 |
| 15° | 990 | 278 |
| 25° | 816 | 339 |
| 35° | 211 | 144 |
| 45° | 140 | 109 |
| 55° | 90 | 82 |
| 65° | 62 | 63 |
| 75° | 50 | 53 |
| 85° | 38 | 32 |
| 90° | 31 | 17 |
| 95° | 26 | 19 |
| 105° | 6 | 8 |
| 115° | 0 | 1 |
| 125° | 0 | 0 |
| 135° | 0 | 0 |
| 145° | 0 | 0 |
| 155° | 0 | 0 |
| 165° | 0 | 0 |
| 175° | 0 | 0 |
| 180° | 0 | |

TEST NUMBER: P702485

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-FF

CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 1081.6 |
| 2.5° | 1080.0 |
| 5° | 1073.8 |
| 7.5° | 1055.1 |
| 10° | 1031.7 |
| 12.5° | 1011.4 |
| 15° | 989.5 |
| 17.5° | 963.0 |
| 20° | 927.1 |
| 22.5° | 883.4 |
| 25° | 816.3 |
| 27.5° | 636.8 |
| 30° | 382.4 |
| 32.5° | 251.3 |
| 35° | 210.7 |
| 37.5° | 188.9 |
| 40° | 171.7 |
| 42.5° | 156.1 |
| 45° | 140.5 |
| 47.5° | 126.4 |
| 50° | 113.9 |
| 52.5° | 101.4 |
| 55° | 90.5 |
| 57.5° | 82.7 |
| 60° | 74.9 |
| 62.5° | 67.1 |
| 65° | 62.4 |
| 67.5° | 59.3 |
| 70° | 56.2 |
| 72.5° | 53.1 |
| 75° | 49.9 |
| 77.5° | 46.8 |
| 80° | 43.7 |
| 82.5° | 40.6 |
| 85° | 37.5 |
| 87.5° | 34.3 |
| 90° | 31.2 |
| 92.5° | 29.7 |
| 95° | 26.5 |
| 97.5° | 20.3 |
| 100° | 15.6 |
| 102.5° | 10.9 |
| 105° | 6.2 |
| 107.5° | 4.7 |
| 110° | 1.6 |

TEST NUMBER: P702485

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-FF

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 1.6 |
| 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)