

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: P702715

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702715
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-40-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

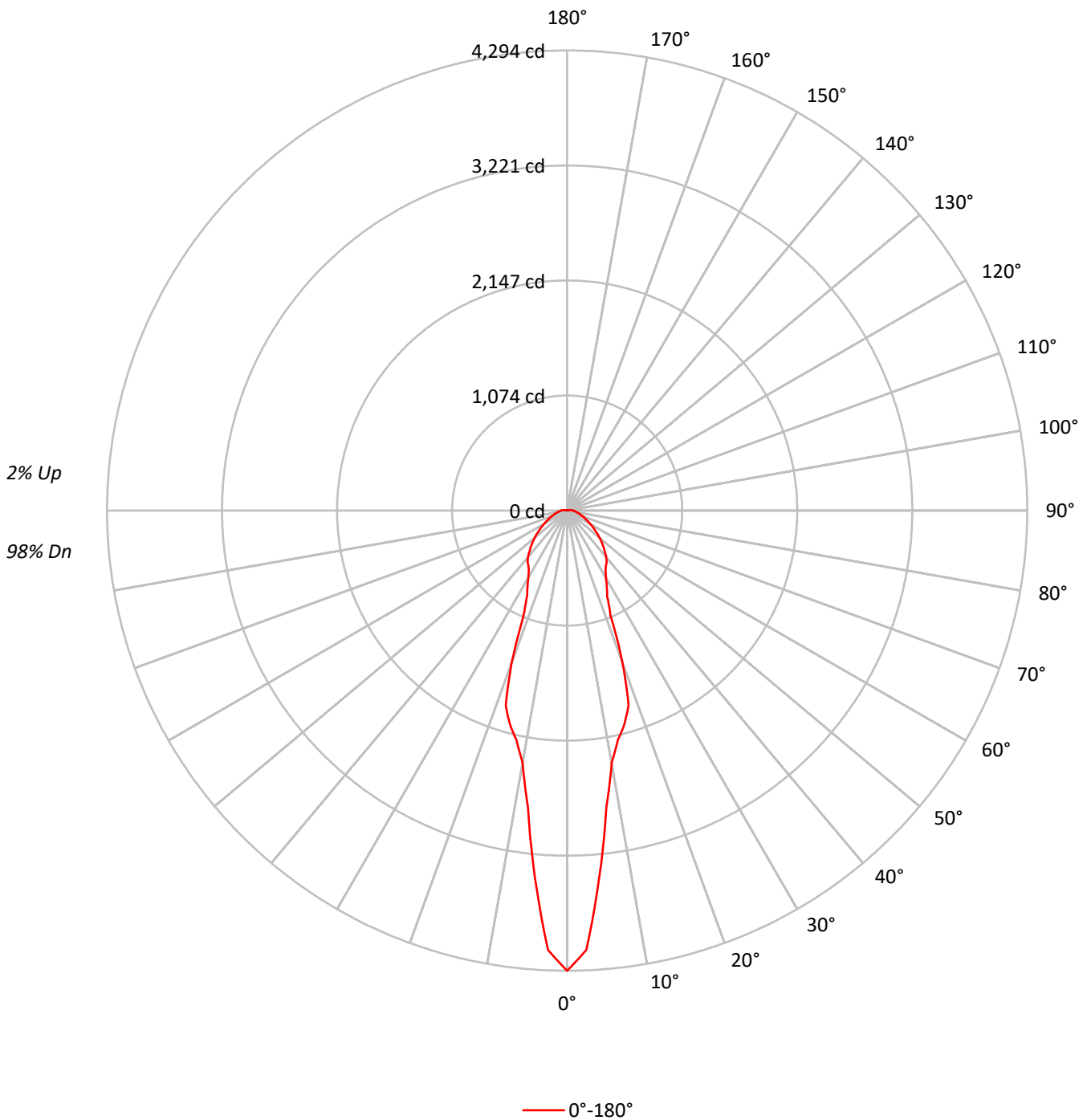
Lumens per Lamp: N/A
Luminaire Lumens: 2807.6 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 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

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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° | 280130 |
| 5° | 201230 |
| 10° | 127673 |
| 15° | 102222 |
| 20° | 70323 |
| 25° | 38983 |
| 30° | 30568 |
| 35° | 25672 |
| 40° | 22552 |
| 45° | 18707 |
| 50° | 15359 |
| 55° | 12165 |
| 60° | 9686 |
| 65° | 7623 |
| 70° | 6073 |
| 75° | 4896 |
| 80° | 3958 |
| 85° | 3262 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18707 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 293.9 | 10.5 |
| 10°-20° | 563.9 | 20.1 |
| 20°-30° | 437.7 | 15.6 |
| 30°-40° | 398.2 | 14.2 |
| 40°-50° | 369.4 | 13.2 |
| 50°-60° | 284.4 | 10.1 |
| 60°-70° | 194.6 | 6.9 |
| 70°-80° | 126.4 | 4.5 |
| 80°-90° | 78.6 | 2.8 |
| 90°-100° | 45.6 | 1.6 |
| 100°-110° | 14.4 | 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° | 1295.5 | 46.1 |
| 0°-40° | 1693.8 | 60.3 |
| 0°-60° | 2347.6 | 83.6 |
| 0°-90° | 2747.1 | 97.8 |
| 90°-120° | 60.5 | 2.2 |
| 90°-150° | 60.5 | 2.2 |
| 90°-180° | 60.0 | 2.1 |
| 0°-180° | 2807.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 4294 | |
| 5° | 3438 | 294 |
| 15° | 2065 | 564 |
| 25° | 885 | 438 |
| 35° | 629 | 398 |
| 45° | 478 | 369 |
| 55° | 315 | 284 |
| 65° | 193 | 195 |
| 75° | 118 | 126 |
| 85° | 72 | 63 |
| 90° | 52 | 30 |
| 95° | 43 | 32 |
| 105° | 13 | 14 |
| 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° | 4293.8 |
| 2.5° | 4103.7 |
| 5° | 3438.3 |
| 7.5° | 2795.9 |
| 10° | 2389.4 |
| 12.5° | 2189.5 |
| 15° | 2065.0 |
| 17.5° | 1904.3 |
| 20° | 1514.3 |
| 22.5° | 1058.7 |
| 25° | 885.0 |
| 27.5° | 799.8 |
| 30° | 724.4 |
| 32.5° | 665.4 |
| 35° | 629.3 |
| 37.5° | 606.4 |
| 40° | 567.0 |
| 42.5° | 521.2 |
| 45° | 478.5 |
| 47.5° | 435.9 |
| 50° | 396.6 |
| 52.5° | 354.0 |
| 55° | 314.7 |
| 57.5° | 281.9 |
| 60° | 249.1 |
| 62.5° | 219.6 |
| 65° | 193.4 |
| 67.5° | 173.7 |
| 70° | 150.8 |
| 72.5° | 134.4 |
| 75° | 118.0 |
| 77.5° | 104.9 |
| 80° | 91.8 |
| 82.5° | 81.9 |
| 85° | 72.1 |
| 87.5° | 62.3 |
| 90° | 52.4 |
| 92.5° | 49.2 |
| 95° | 42.6 |
| 97.5° | 36.1 |
| 100° | 26.2 |
| 102.5° | 19.7 |
| 105° | 13.1 |
| 107.5° | 6.6 |
| 110° | 3.3 |

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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)