

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: P702605

Luminaire Tested: 340-6C-30-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702605
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-30-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

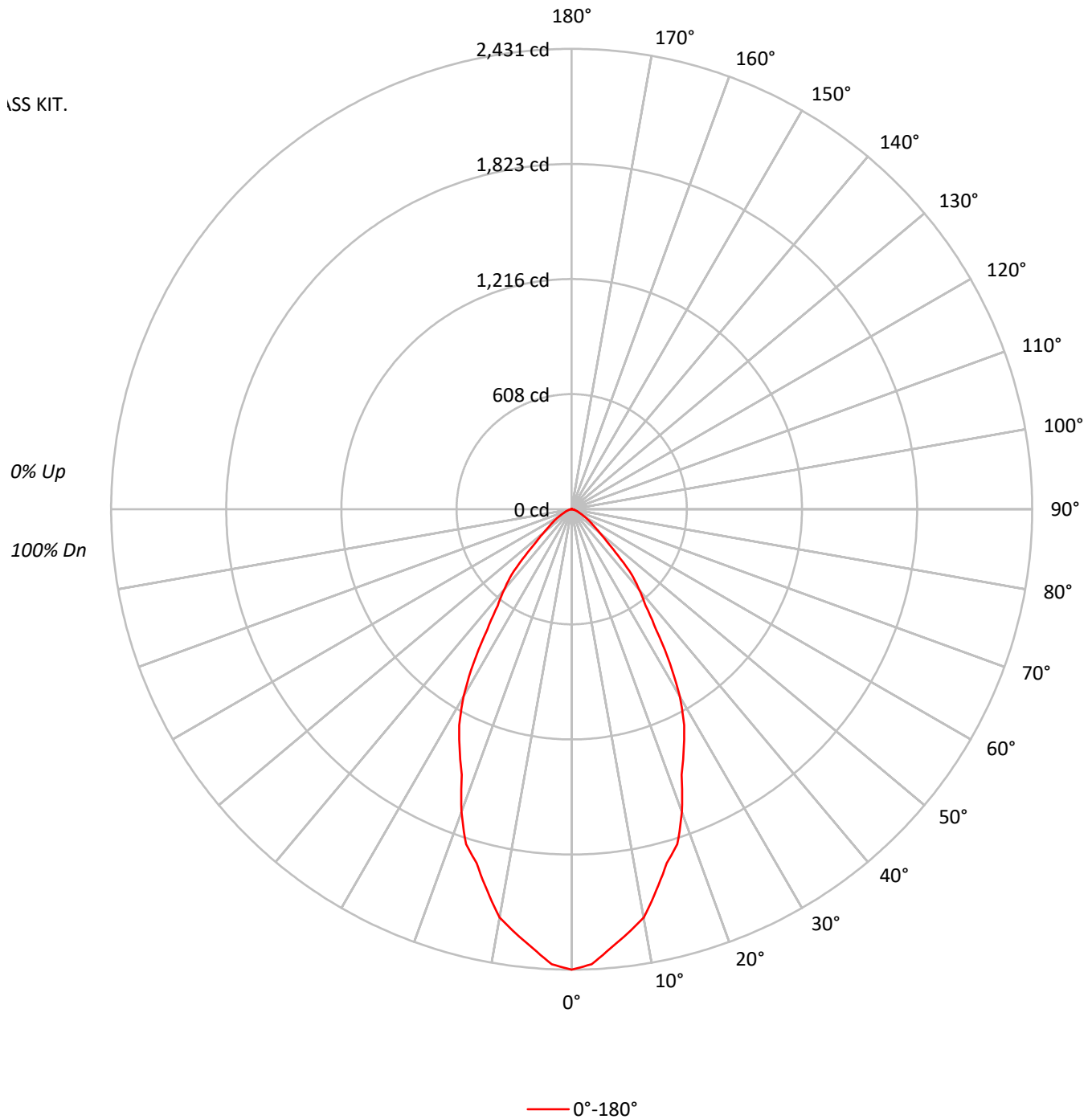
Lumens per Lamp: N/A
Luminaire Lumens: 2376.2 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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 | 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° | 158600 |
| 5° | 152467 |
| 10° | 145035 |
| 15° | 130741 |
| 20° | 118110 |
| 25° | 100757 |
| 30° | 85978 |
| 35° | 61931 |
| 40° | 47275 |
| 45° | 31785 |
| 50° | 19670 |
| 55° | 14150 |
| 60° | 10308 |
| 65° | 7024 |
| 70° | 5932 |
| 75° | 4815 |
| 80° | 4508 |
| 85° | 3593 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31785 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 218.1 | 9.2 |
| 10°-20° | 546.0 | 23.0 |
| 20°-30° | 643.6 | 27.1 |
| 30°-40° | 500.3 | 21.1 |
| 40°-50° | 274.5 | 11.6 |
| 50°-60° | 114.4 | 4.8 |
| 60°-70° | 48.4 | 2.0 |
| 70°-80° | 20.8 | 0.9 |
| 80°-90° | 5.9 | 0.2 |
| 90°-100° | 2.6 | 0.1 |
| 100°-110° | 1.6 | 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° | 1407.6 | 59.2 |
| 0°-40° | 1908.0 | 80.3 |
| 0°-60° | 2296.8 | 96.7 |
| 0°-90° | 2372.0 | 99.8 |
| 90°-120° | 4.2 | 0.2 |
| 90°-150° | 4.2 | 0.2 |
| 90°-180° | 4.0 | 0.2 |
| 0°-180° | 2376.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 2431 | |
| 5° | 2328 | 218 |
| 15° | 1936 | 546 |
| 25° | 1400 | 644 |
| 35° | 778 | 500 |
| 45° | 344 | 274 |
| 55° | 124 | 114 |
| 65° | 46 | 48 |
| 75° | 19 | 21 |
| 85° | 5 | 5 |
| 90° | 2 | 1 |
| 95° | 2 | 2 |
| 105° | 2 | 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 |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 2431.0 |
| 2.5° | 2404.7 |
| 5° | 2328.1 |
| 7.5° | 2258.7 |
| 10° | 2189.3 |
| 12.5° | 2062.5 |
| 15° | 1935.7 |
| 17.5° | 1854.3 |
| 20° | 1701.2 |
| 22.5° | 1517.0 |
| 25° | 1399.7 |
| 27.5° | 1284.9 |
| 30° | 1141.3 |
| 32.5° | 966.6 |
| 35° | 777.6 |
| 37.5° | 641.2 |
| 40° | 555.1 |
| 42.5° | 471.4 |
| 45° | 344.5 |
| 47.5° | 248.8 |
| 50° | 193.8 |
| 52.5° | 153.1 |
| 55° | 124.4 |
| 57.5° | 100.5 |
| 60° | 79.0 |
| 62.5° | 57.4 |
| 65° | 45.5 |
| 67.5° | 38.3 |
| 70° | 31.1 |
| 72.5° | 23.9 |
| 75° | 19.1 |
| 77.5° | 14.4 |
| 80° | 12.0 |
| 82.5° | 7.2 |
| 85° | 4.8 |
| 87.5° | 2.4 |
| 90° | 2.4 |
| 92.5° | 2.4 |
| 95° | 2.4 |
| 97.5° | 2.4 |
| 100° | 2.4 |
| 102.5° | 2.4 |
| 105° | 2.4 |
| 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)