

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: P702115

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

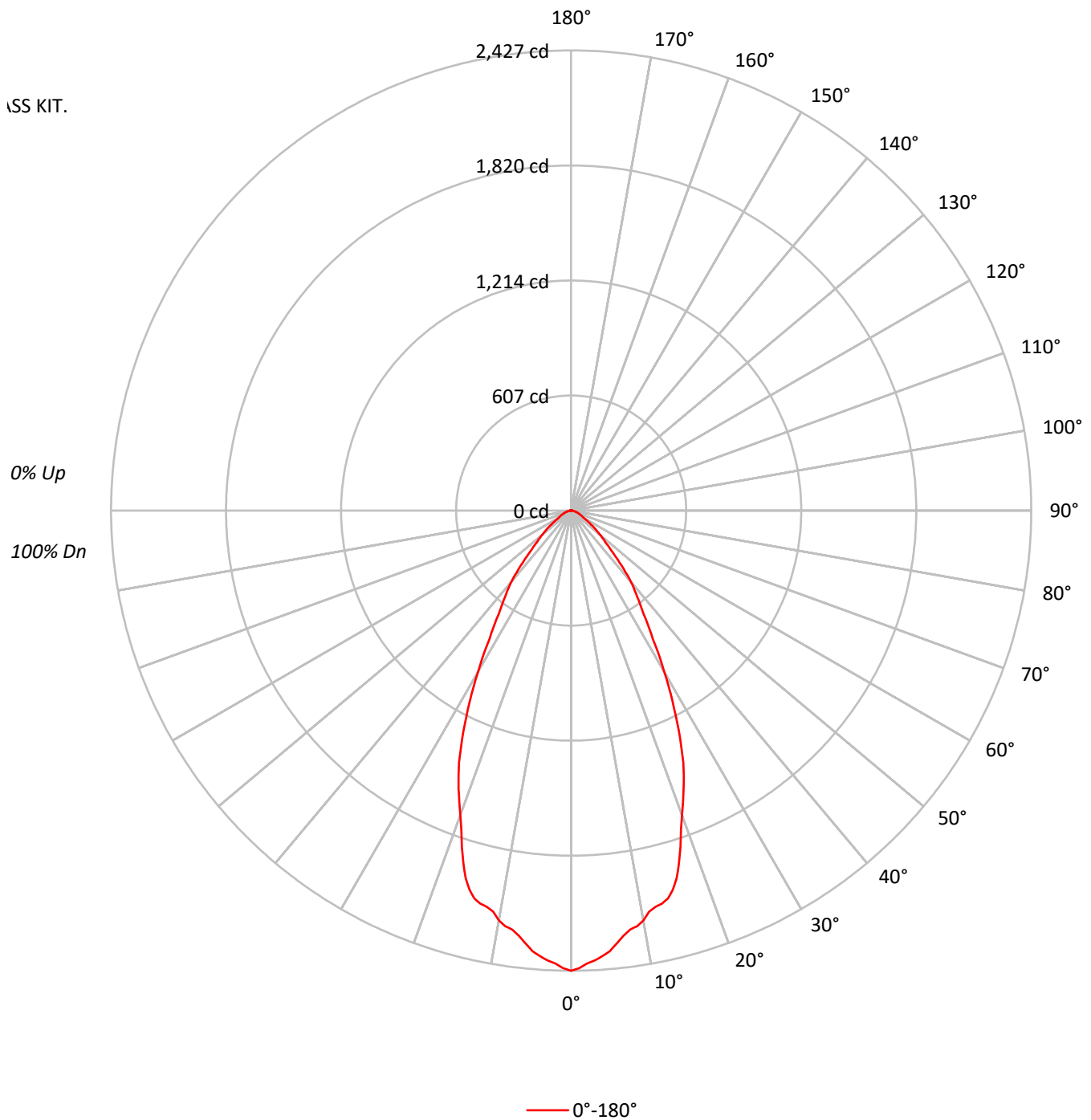
Lumens per Lamp: N/A
Luminaire Lumens: 2289.9 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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 | 94 | 93 | 91 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 95 | 92 | 89 | | 92 | 89 | 87 | | 89 | 87 | 85 | 83 |
| 3 | 100 | 93 | 87 | 83 | 98 | 91 | 86 | 82 | 88 | 84 | 80 | | 86 | 82 | 79 | | 84 | 81 | 78 | 76 |
| 4 | 94 | 86 | 79 | 75 | 92 | 85 | 79 | 74 | 82 | 77 | 73 | | 80 | 76 | 72 | | 78 | 75 | 72 | 70 |
| 5 | 89 | 80 | 73 | 68 | 87 | 79 | 72 | 68 | 77 | 71 | 67 | | 75 | 70 | 67 | | 73 | 69 | 66 | 64 |
| 6 | 84 | 74 | 68 | 63 | 82 | 73 | 67 | 63 | 72 | 66 | 62 | | 70 | 65 | 62 | | 69 | 65 | 61 | 60 |
| 7 | 79 | 69 | 63 | 58 | 78 | 69 | 62 | 58 | 67 | 62 | 58 | | 66 | 61 | 57 | | 65 | 60 | 57 | 55 |
| 8 | 75 | 65 | 58 | 54 | 74 | 64 | 58 | 54 | 63 | 58 | 54 | | 62 | 57 | 53 | | 61 | 56 | 53 | 52 |
| 9 | 71 | 61 | 55 | 50 | 70 | 61 | 54 | 50 | 60 | 54 | 50 | | 59 | 53 | 50 | | 58 | 53 | 50 | 48 |
| 10 | 68 | 58 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 51 | 47 | | 55 | 50 | 47 | | 55 | 50 | 47 | 45 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 281514 |
| 5° | 271599 |
| 10° | 258463 |
| 15° | 248590 |
| 20° | 210899 |
| 25° | 175938 |
| 30° | 131689 |
| 35° | 94553 |
| 40° | 74613 |
| 45° | 49486 |
| 50° | 36160 |
| 55° | 25620 |
| 60° | 17629 |
| 65° | 15177 |
| 70° | 13259 |
| 75° | 11338 |
| 80° | 9217 |
| 85° | 9182 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 49486 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 217.4 | 9.5 |
| 10°-20° | 564.4 | 24.6 |
| 20°-30° | 620.9 | 27.1 |
| 30°-40° | 430.5 | 18.8 |
| 40°-50° | 245.4 | 10.7 |
| 50°-60° | 116.7 | 5.1 |
| 60°-70° | 55.2 | 2.4 |
| 70°-80° | 27.0 | 1.2 |
| 80°-90° | 7.8 | 0.3 |
| 90°-100° | 2.8 | 0.1 |
| 100°-110° | 1.8 | 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° | 1402.6 | 61.3 |
| 0°-40° | 1833.1 | 80.1 |
| 0°-60° | 2195.2 | 95.9 |
| 0°-90° | 2285.2 | 99.8 |
| 90°-120° | 4.7 | 0.2 |
| 90°-150° | 4.7 | 0.2 |
| 90°-180° | 5.0 | 0.2 |
| 0°-180° | 2289.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 2427 | |
| 5° | 2333 | 217 |
| 15° | 2070 | 564 |
| 25° | 1375 | 621 |
| 35° | 668 | 430 |
| 45° | 302 | 245 |
| 55° | 127 | 117 |
| 65° | 55 | 55 |
| 75° | 25 | 27 |
| 85° | 7 | 7 |
| 90° | 2 | 2 |
| 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° | 2427.2 |
| 1° | 2413.4 |
| 2° | 2390.4 |
| 3° | 2376.6 |
| 4° | 2355.8 |
| 5° | 2332.8 |
| 6° | 2296.0 |
| 7° | 2259.1 |
| 8° | 2231.5 |
| 9° | 2220.0 |
| 10° | 2194.6 |
| 11° | 2155.5 |
| 12° | 2137.1 |
| 13° | 2127.9 |
| 14° | 2109.4 |
| 15° | 2070.3 |
| 16° | 2017.3 |
| 17° | 1945.9 |
| 18° | 1865.3 |
| 19° | 1780.1 |
| 20° | 1708.7 |
| 21° | 1646.6 |
| 22° | 1584.4 |
| 23° | 1519.9 |
| 24° | 1453.1 |
| 25° | 1374.8 |
| 27.5° | 1176.8 |
| 30° | 983.3 |
| 32.5° | 801.4 |
| 35° | 667.8 |
| 37.5° | 571.1 |
| 40° | 492.8 |
| 42.5° | 393.8 |
| 45° | 301.7 |
| 47.5° | 241.8 |
| 50° | 200.4 |
| 52.5° | 163.5 |
| 55° | 126.7 |
| 57.5° | 96.7 |
| 60° | 76.0 |
| 62.5° | 64.5 |
| 65° | 55.3 |
| 67.5° | 46.1 |
| 70° | 39.1 |
| 72.5° | 32.2 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 75° | 25.3 |
| 77.5° | 18.4 |
| 80° | 13.8 |
| 82.5° | 9.2 |
| 85° | 6.9 |
| 87.5° | 4.6 |
| 90° | 2.3 |
| 92.5° | 2.3 |
| 95° | 2.3 |
| 97.5° | 2.3 |
| 100° | 4.6 |
| 102.5° | 2.3 |
| 105° | 2.3 |
| 107.5° | 0.0 |
| 110° | 0.0 |
| 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)