

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: P229151

Luminaire Tested: **340-6B-10-D010 / 340-EU6B-1020-9027-6LBW1LI-CC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 340-6B-10-D010 / 340-EU6B-1020-9027-6LBW1LI-CC
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 630.9 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.71
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

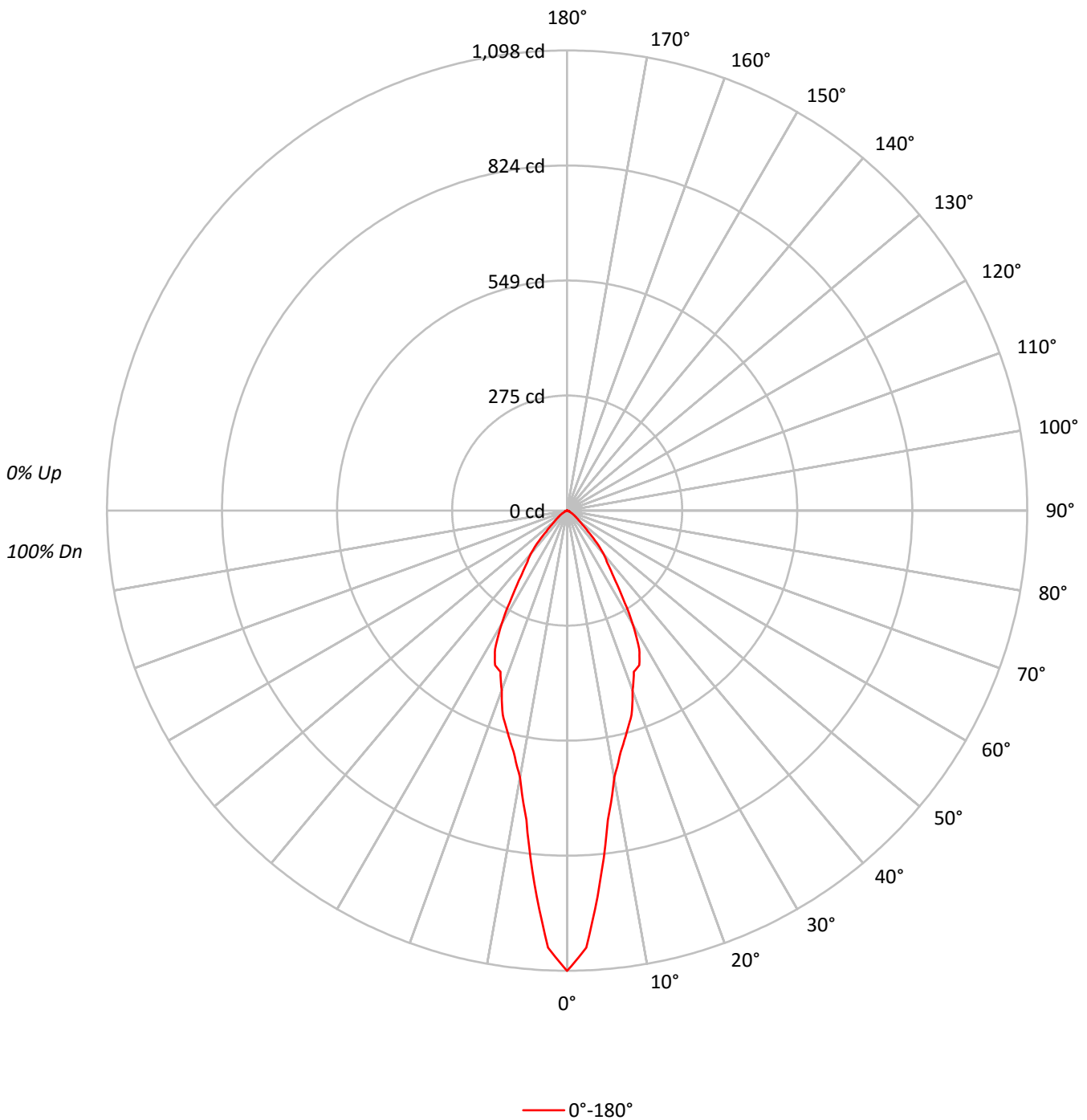
Input Watts (W): 9.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | | 100 | 99 | 97 | | 97 | 96 | 94 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | | 94 | 91 | 89 | | 91 | 89 | 87 | 85 |
| 3 | 101 | 95 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | | 88 | 85 | 82 | | 86 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 85 | 80 | 76 | | 83 | 79 | 75 | | 81 | 77 | 74 | 73 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | | 78 | 73 | 70 | | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 74 | 69 | 65 | | 73 | 68 | 65 | | 72 | 68 | 64 | 63 |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 65 | 61 | | 69 | 64 | 61 | | 68 | 63 | 60 | 59 |
| 8 | 78 | 68 | 62 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | | 65 | 60 | 57 | | 64 | 60 | 56 | 55 |
| 9 | 74 | 64 | 58 | 54 | 73 | 63 | 58 | 54 | 62 | 57 | 53 | | 61 | 57 | 53 | | 61 | 56 | 53 | 52 |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 54 | 50 | | 58 | 53 | 50 | | 58 | 53 | 50 | 49 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 71654 |
| 5° | 58502 |
| 10° | 42868 |
| 15° | 37020 |
| 20° | 31701 |
| 25° | 29305 |
| 30° | 23625 |
| 35° | 15339 |
| 40° | 11600 |
| 45° | 6468 |
| 50° | 3766 |
| 55° | 2502 |
| 60° | 1709 |
| 65° | 1065 |
| 70° | 916 |
| 75° | 706 |
| 80° | 526 |
| 85° | 524 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.2 | 12.2 |
| 10°-20° | 153.4 | 24.3 |
| 20°-30° | 181.3 | 28.7 |
| 30°-40° | 126.9 | 20.1 |
| 40°-50° | 59.2 | 9.4 |
| 50°-60° | 20.5 | 3.3 |
| 60°-70° | 7.8 | 1.2 |
| 70°-80° | 3.2 | 0.5 |
| 80°-90° | 0.8 | 0.1 |
| 90°-100° | 0.5 | 0.1 |
| 100°-110° | 0.3 | 0.0 |
| 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° | 411.9 | 65.3 |
| 0°-40° | 538.8 | 85.4 |
| 0°-60° | 618.6 | 98.0 |
| 0°-90° | 630.3 | 99.9 |
| 90°-120° | 0.8 | 0.1 |
| 90°-150° | 0.8 | 0.1 |
| 90°-180° | 1.0 | 0.2 |
| 0°-180° | 630.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 1098 | |
| 5° | 893 | 77 |
| 15° | 548 | 153 |
| 25° | 407 | 181 |
| 35° | 193 | 127 |
| 45° | 70 | 59 |
| 55° | 22 | 21 |
| 65° | 7 | 8 |
| 75° | 3 | 3 |
| 85° | 1 | 1 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 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° | 1098.3 |
| 2.5° | 1043.9 |
| 5° | 893.3 |
| 7.5° | 744.8 |
| 10° | 647.1 |
| 12.5° | 589.4 |
| 15° | 548.1 |
| 17.5° | 511.0 |
| 20° | 456.6 |
| 22.5° | 416.1 |
| 25° | 407.1 |
| 27.5° | 372.7 |
| 30° | 313.6 |
| 32.5° | 246.9 |
| 35° | 192.6 |
| 37.5° | 157.5 |
| 40° | 136.2 |
| 42.5° | 105.9 |
| 45° | 70.1 |
| 47.5° | 48.8 |
| 50° | 37.1 |
| 52.5° | 28.2 |
| 55° | 22.0 |
| 57.5° | 17.2 |
| 60° | 13.1 |
| 62.5° | 9.6 |
| 65° | 6.9 |
| 67.5° | 6.2 |
| 70° | 4.8 |
| 72.5° | 4.1 |
| 75° | 2.8 |
| 77.5° | 2.1 |
| 80° | 1.4 |
| 82.5° | 0.7 |
| 85° | 0.7 |
| 87.5° | 0.7 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.7 |
| 100° | 0.7 |
| 102.5° | 0.7 |
| 105° | 0.0 |
| 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)