

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: P229258

Luminaire Tested: **340-6B-30-D010 / 340-EU6B-3040-9040-6LBW1LI-GFF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 340-6B-30-D010 / 340-EU6B-3040-9040-6LBW1LI-GFF
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE GLASS KIT.
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1654.2 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.63
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

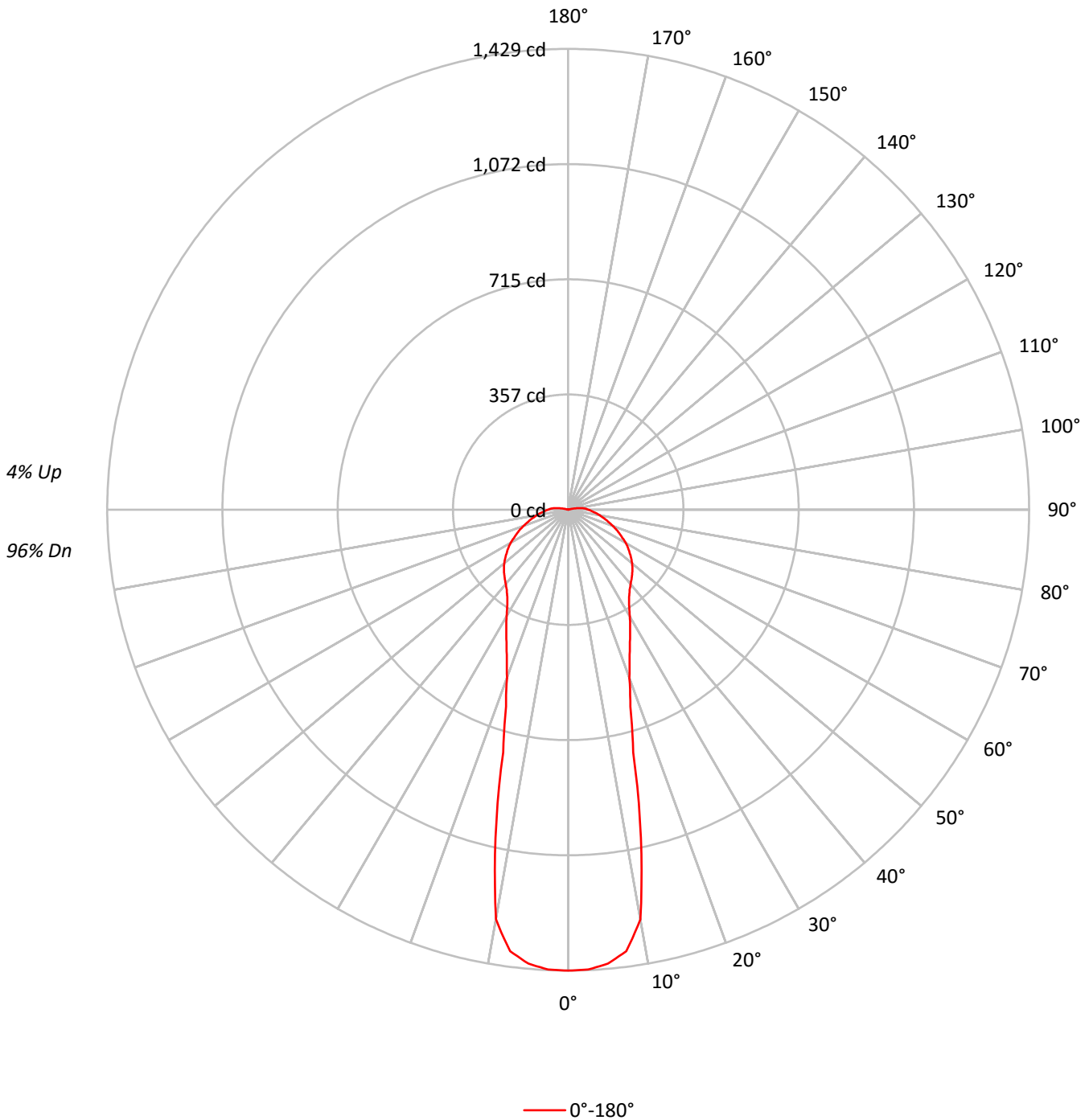
Input Watts (W): 28
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 96 |
| 1 | 107 | 102 | 97 | 93 | 104 | 99 | 95 | 91 | 94 | 91 | 88 | 90 | 87 | 84 | 85 | 83 | 81 | 79 |
| 2 | 98 | 89 | 82 | 77 | 95 | 87 | 81 | 75 | 83 | 78 | 73 | 79 | 75 | 71 | 76 | 72 | 69 | 66 |
| 3 | 90 | 79 | 71 | 65 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 71 | 65 | 61 | 68 | 63 | 59 | 57 |
| 4 | 83 | 71 | 63 | 56 | 80 | 70 | 62 | 56 | 67 | 60 | 54 | 64 | 58 | 53 | 61 | 56 | 52 | 50 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 58 | 52 | 47 | 56 | 51 | 47 | 44 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 47 | 43 | 52 | 46 | 42 | 40 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 43 | 39 | 48 | 43 | 38 | 36 |
| 8 | 63 | 50 | 42 | 37 | 61 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 45 | 39 | 35 | 33 |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | 31 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 40 | 34 | 30 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 93235 |
| 5° | 82697 |
| 10° | 68923 |
| 15° | 38572 |
| 20° | 25778 |
| 25° | 19919 |
| 30° | 16099 |
| 35° | 13421 |
| 40° | 11964 |
| 45° | 10970 |
| 50° | 10007 |
| 55° | 8972 |
| 60° | 8006 |
| 65° | 6921 |
| 70° | 5936 |
| 75° | 5024 |
| 80° | 4264 |
| 85° | 3561 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.4 | 7.9 |
| 10°-20° | 228.7 | 13.8 |
| 20°-30° | 209.8 | 12.7 |
| 30°-40° | 208.6 | 12.6 |
| 40°-50° | 216.7 | 13.1 |
| 50°-60° | 208.3 | 12.6 |
| 60°-70° | 174.2 | 10.5 |
| 70°-80° | 128.5 | 7.8 |
| 80°-90° | 86.9 | 5.3 |
| 90°-100° | 50.4 | 3.0 |
| 100°-110° | 10.5 | 0.6 |
| 110°-120° | 0.3 | 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° | 569.9 | 34.5 |
| 0°-40° | 778.5 | 47.1 |
| 0°-60° | 1203.4 | 72.8 |
| 0°-90° | 1593.0 | 96.3 |
| 90°-120° | 61.1 | 3.7 |
| 90°-150° | 61.1 | 3.7 |
| 90°-180° | 61.0 | 3.7 |
| 0°-180° | 1654.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 1429 | |
| 5° | 1413 | 131 |
| 15° | 779 | 229 |
| 25° | 452 | 210 |
| 35° | 329 | 209 |
| 45° | 281 | 217 |
| 55° | 232 | 208 |
| 65° | 176 | 174 |
| 75° | 121 | 128 |
| 85° | 79 | 69 |
| 90° | 63 | 35 |
| 95° | 48 | 34 |
| 105° | 8 | 10 |
| 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° | 1429.1 |
| 2.5° | 1427.1 |
| 5° | 1413.0 |
| 7.5° | 1380.7 |
| 10° | 1289.9 |
| 12.5° | 1041.6 |
| 15° | 779.2 |
| 17.5° | 639.9 |
| 20° | 555.1 |
| 22.5° | 496.6 |
| 25° | 452.2 |
| 27.5° | 415.8 |
| 30° | 381.5 |
| 32.5° | 351.2 |
| 35° | 329.0 |
| 37.5° | 312.9 |
| 40° | 300.8 |
| 42.5° | 290.7 |
| 45° | 280.6 |
| 47.5° | 270.5 |
| 50° | 258.4 |
| 52.5° | 246.3 |
| 55° | 232.1 |
| 57.5° | 220.0 |
| 60° | 205.9 |
| 62.5° | 189.7 |
| 65° | 175.6 |
| 67.5° | 161.5 |
| 70° | 147.4 |
| 72.5° | 133.2 |
| 75° | 121.1 |
| 77.5° | 109.0 |
| 80° | 98.9 |
| 82.5° | 88.8 |
| 85° | 78.7 |
| 87.5° | 70.6 |
| 90° | 62.6 |
| 92.5° | 56.5 |
| 95° | 48.4 |
| 97.5° | 36.3 |
| 100° | 24.2 |
| 102.5° | 14.1 |
| 105° | 8.1 |
| 107.5° | 4.0 |
| 110° | 2.0 |



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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)