

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: G3-2203-583-18

Luminaire Tested: 313-FIL-120-CL-WHST

Test Date: 6/16/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: G3-2203-583-18  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 6/16/2022  
Issue Date: 6/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 313-FIL-120-CL-WHST  
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, CLEAR (TRANSLUCENT)  
SHADE, FILAMENT LAMP  
Light Source: 1 PHILIPS  
FILAMENT BULB - 60W EQUIVALENT 929001969604  
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS  
Ballast/Driver: PHILIPS  
INTEGRAL TO LAMP

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 548.3 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 0.65' x H: 0.96')  
CIE Type: Semi-Direct

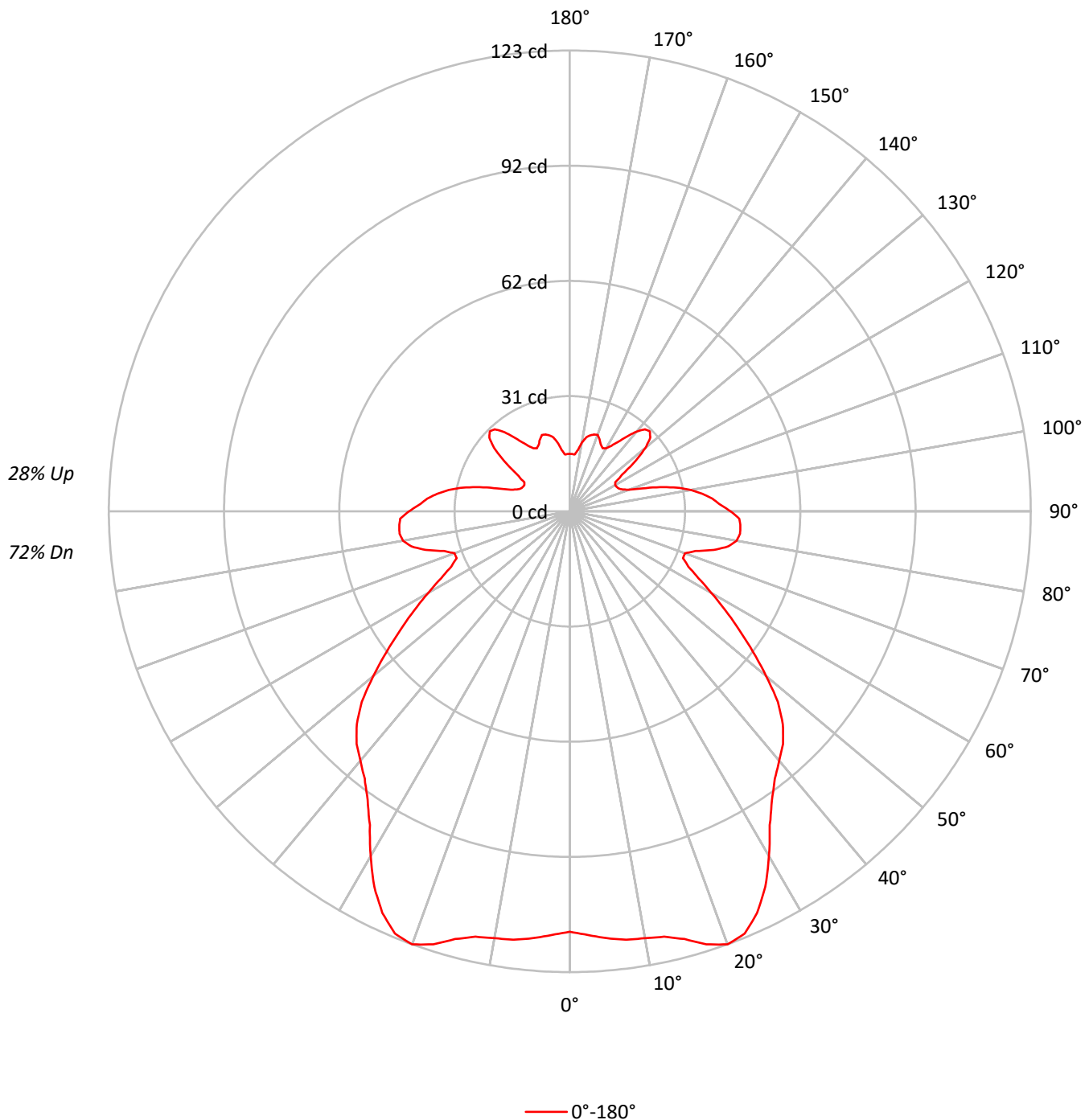
Input Watts (W): 7.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0791  
Voltage Rise (V): NR  
Power Factor: 0.8159  
Total Harmonic Distortion (THDi): 70.4%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.3  
Test Distance: 24 FT



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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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 112 | 112 | 112 | 112 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 76 | 76 | 76 |    |    | 72 |
| 1   | 99  | 94  | 88  | 84  | 94  | 89  | 84  | 80  | 79 | 75 | 72 | 70 | 67 | 65 | 62 | 60 | 58 |    |    | 54 |
| 2   | 90  | 81  | 73  | 67  | 85  | 76  | 70  | 64  | 68 | 63 | 58 | 61 | 57 | 53 | 54 | 51 | 48 |    |    | 44 |
| 3   | 82  | 71  | 62  | 55  | 77  | 67  | 59  | 53  | 60 | 54 | 49 | 54 | 49 | 44 | 48 | 44 | 40 |    |    | 37 |
| 4   | 75  | 63  | 54  | 47  | 70  | 59  | 51  | 45  | 53 | 47 | 41 | 48 | 42 | 38 | 43 | 38 | 34 |    |    | 31 |
| 5   | 69  | 56  | 47  | 40  | 65  | 53  | 45  | 39  | 48 | 41 | 36 | 43 | 37 | 33 | 38 | 34 | 30 |    |    | 27 |
| 6   | 64  | 50  | 41  | 35  | 60  | 48  | 40  | 34  | 43 | 36 | 31 | 39 | 33 | 29 | 35 | 30 | 26 |    |    | 24 |
| 7   | 59  | 46  | 37  | 31  | 56  | 43  | 35  | 30  | 39 | 33 | 28 | 36 | 30 | 26 | 32 | 27 | 24 |    |    | 21 |
| 8   | 55  | 41  | 33  | 27  | 52  | 40  | 32  | 26  | 36 | 29 | 25 | 33 | 27 | 23 | 29 | 25 | 21 |    |    | 19 |
| 9   | 51  | 38  | 30  | 24  | 48  | 36  | 29  | 24  | 33 | 27 | 22 | 30 | 25 | 21 | 27 | 23 | 19 |    |    | 17 |
| 10  | 48  | 35  | 27  | 22  | 45  | 33  | 26  | 21  | 31 | 24 | 20 | 28 | 22 | 19 | 25 | 21 | 17 |    |    | 15 |

**AVERAGE LUMINANCE (cd/sqm):**

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 2858 |
| 5°  | 2591 |
| 10° | 2376 |
| 15° | 2235 |
| 20° | 2170 |
| 25° | 1971 |
| 30° | 1689 |
| 35° | 1438 |
| 40° | 1292 |
| 45° | 1171 |
| 50° | 983  |
| 55° | 788  |
| 60° | 625  |
| 65° | 506  |
| 70° | 482  |
| 75° | 603  |
| 80° | 708  |
| 85° | 748  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1171 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.0   | 2.0       |
| 10°-20°   | 33.8   | 6.2       |
| 20°-30°   | 53.9   | 9.8       |
| 30°-40°   | 59.4   | 10.8      |
| 40°-50°   | 61.3   | 11.2      |
| 50°-60°   | 49.6   | 9.0       |
| 60°-70°   | 35.8   | 6.5       |
| 70°-80°   | 41.6   | 7.6       |
| 80°-90°   | 49.3   | 9.0       |
| 90°-100°  | 41.5   | 7.6       |
| 100°-110° | 26.3   | 4.8       |
| 110°-120° | 14.7   | 2.7       |
| 120°-130° | 16.4   | 3.0       |
| 130°-140° | 22.5   | 4.1       |
| 140°-150° | 14.6   | 2.7       |
| 150°-160° | 9.2    | 1.7       |
| 160°-170° | 5.9    | 1.1       |
| 170°-180° | 1.6    | 0.3       |
| 0°-30°    | 98.7   | 18.0      |
| 0°-40°    | 158.1  | 28.8      |
| 0°-60°    | 268.9  | 49.0      |
| 0°-90°    | 395.7  | 72.2      |
| 90°-120°  | 82.4   | 15.0      |
| 90°-150°  | 136.0  | 24.8      |
| 90°-180°  | 153.0  | 27.9      |
| 0°-180°   | 548.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | Flux |
|------|-----|------|
| 0°   | 112 |      |
| 5°   | 114 | 11   |
| 15°  | 118 | 34   |
| 25°  | 118 | 54   |
| 35°  | 94  | 59   |
| 45°  | 80  | 61   |
| 55°  | 55  | 50   |
| 65°  | 35  | 36   |
| 75°  | 40  | 42   |
| 85°  | 46  | 37   |
| 90°  | 43  | 23   |
| 95°  | 38  | 30   |
| 105° | 25  | 26   |
| 115° | 14  | 15   |
| 125° | 17  | 16   |
| 135° | 30  | 22   |
| 145° | 23  | 15   |
| 155° | 20  | 9    |
| 165° | 21  | 6    |
| 175° | 15  | 2    |
| 180° | 15  |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |       |
|--------|-------|
| 0°     | 112.2 |
| 2.5°   | 113.2 |
| 5°     | 114.4 |
| 7.5°   | 115.3 |
| 10°    | 115.7 |
| 12.5°  | 116.3 |
| 15°    | 118.2 |
| 17.5°  | 121.2 |
| 20°    | 123.0 |
| 22.5°  | 122.0 |
| 25°    | 118.3 |
| 27.5°  | 113.0 |
| 30°    | 106.3 |
| 32.5°  | 99.3  |
| 35°    | 94.0  |
| 37.5°  | 89.9  |
| 40°    | 86.9  |
| 42.5°  | 84.2  |
| 45°    | 80.4  |
| 47.5°  | 75.3  |
| 50°    | 68.4  |
| 52.5°  | 61.6  |
| 55°    | 55.1  |
| 57.5°  | 49.2  |
| 60°    | 43.6  |
| 62.5°  | 38.7  |
| 65°    | 34.9  |
| 67.5°  | 32.7  |
| 70°    | 32.7  |
| 72.5°  | 35.2  |
| 75°    | 39.8  |
| 77.5°  | 43.3  |
| 80°    | 45.2  |
| 82.5°  | 45.8  |
| 85°    | 45.7  |
| 87.5°  | 45.3  |
| 90°    | 42.9  |
| 92.5°  | 40.2  |
| 95°    | 38.2  |
| 97.5°  | 35.7  |
| 100°   | 32.8  |
| 102.5° | 29.2  |
| 105°   | 24.9  |
| 107.5° | 20.3  |
| 110°   | 16.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 15.2 |
| 115°   | 14.4 |
| 117.5° | 14.1 |
| 120°   | 14.0 |
| 122.5° | 14.4 |
| 125°   | 17.1 |
| 127.5° | 22.1 |
| 130°   | 26.4 |
| 132.5° | 29.1 |
| 135°   | 30.2 |
| 137.5° | 29.7 |
| 140°   | 27.8 |
| 142.5° | 25.3 |
| 145°   | 22.7 |
| 147.5° | 20.8 |
| 150°   | 19.4 |
| 152.5° | 19.0 |
| 155°   | 19.6 |
| 157.5° | 20.8 |
| 160°   | 21.7 |
| 162.5° | 21.5 |
| 165°   | 21.0 |
| 167.5° | 20.2 |
| 170°   | 18.6 |
| 172.5° | 16.5 |
| 175°   | 15.2 |
| 177.5° | 15.3 |
| 180°   | 15.3 |

(END OF REPORT)