

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: P600667

Luminaire Tested: 215-90-27K-LL6-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/6/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 215-90-27K-LL6-UNV-STD-X-X-WHHR-SR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

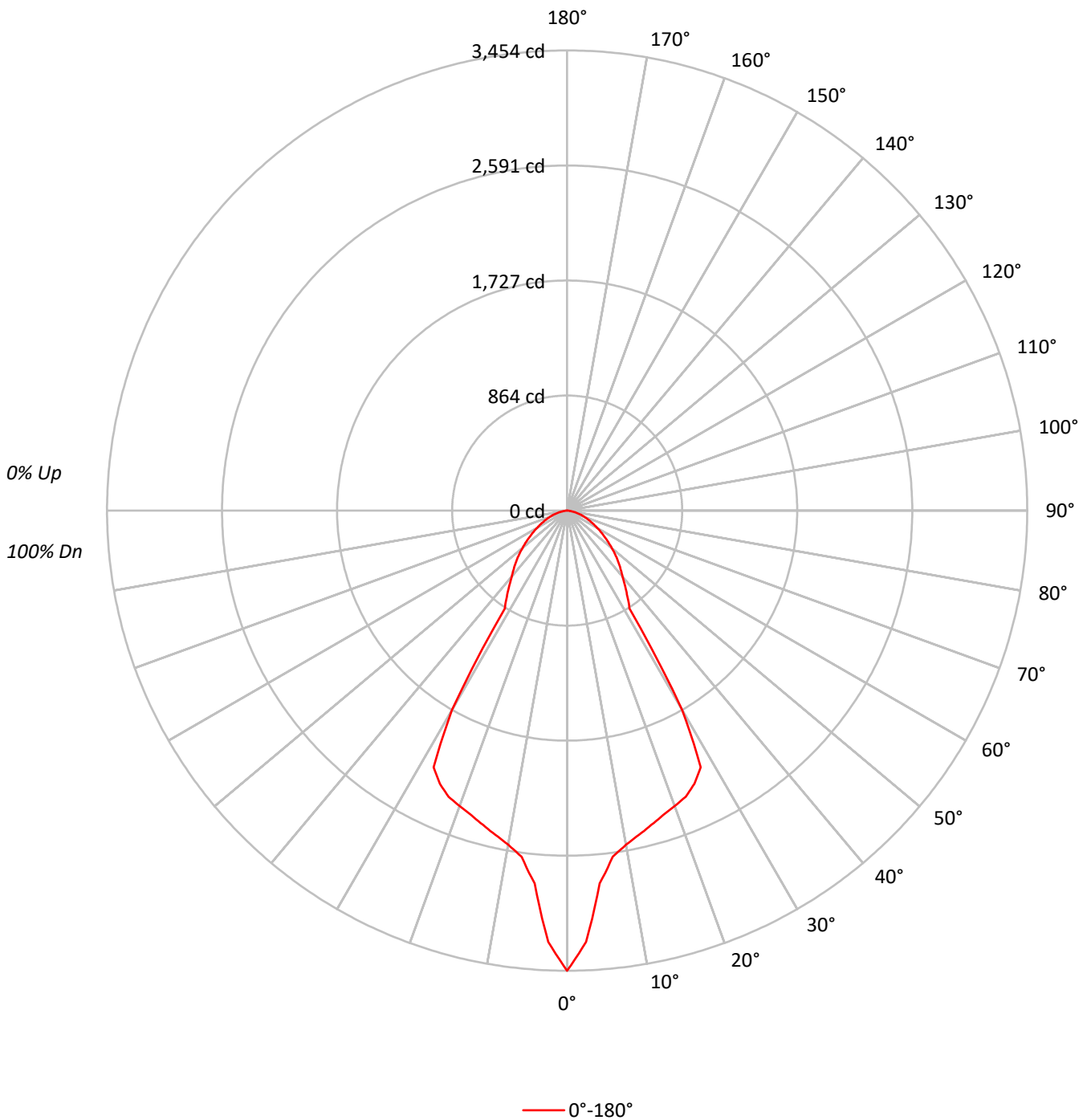
Lumens per Lamp: N/A  
Luminaire Lumens: 3542.1 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 95  | 93  | 92  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 87  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |
| 7   | 76  | 65  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 47  | 46  |
| 9   | 68  | 56  | 49  | 45  | 66  | 56  | 49  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 53  | 48  | 44  | 43  |
| 10  | 64  | 53  | 46  | 42  | 63  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 45  | 41  | 50  | 45  | 41  | 40  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 47339 |
| 5°  | 38643 |
| 10° | 35430 |
| 15° | 34658 |
| 20° | 34418 |
| 25° | 34192 |
| 30° | 27343 |
| 35° | 13201 |
| 40° | 11568 |
| 45° | 10505 |
| 50° | 9326  |
| 55° | 8193  |
| 60° | 7170  |
| 65° | 6269  |
| 70° | 5474  |
| 75° | 4617  |
| 80° | 3212  |
| 85° | 1148  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10505 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 263.0  | 7.4       |
| 10°-20°   | 690.6  | 19.5      |
| 20°-30°   | 1011.6 | 28.6      |
| 30°-40°   | 549.8  | 15.5      |
| 40°-50°   | 417.3  | 11.8      |
| 50°-60°   | 308.6  | 8.7       |
| 60°-70°   | 194.0  | 5.5       |
| 70°-80°   | 92.6   | 2.6       |
| 80°-90°   | 14.6   | 0.4       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 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°    | 1965.2 | 55.5      |
| 0°-40°    | 2515.0 | 71.0      |
| 0°-60°    | 3240.9 | 91.5      |
| 0°-90°    | 3542.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3542.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3454 |      |
| 5°  | 2809 | 263  |
| 15° | 2443 | 691  |
| 25° | 2261 | 1012 |
| 35° | 789  | 550  |
| 45° | 542  | 417  |
| 55° | 343  | 309  |
| 65° | 193  | 194  |
| 75° | 87   | 93   |
| 85° | 7    | 15   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3454.1 |
| 2.5°  | 3240.5 |
| 5°    | 2808.9 |
| 7.5°  | 2620.0 |
| 10°   | 2545.9 |
| 12.5° | 2492.1 |
| 15°   | 2442.7 |
| 17.5° | 2396.2 |
| 20°   | 2359.9 |
| 22.5° | 2325.0 |
| 25°   | 2261.1 |
| 27.5° | 2171.0 |
| 30°   | 1727.8 |
| 32.5° | 871.9  |
| 35°   | 789.0  |
| 37.5° | 713.5  |
| 40°   | 646.6  |
| 42.5° | 592.9  |
| 45°   | 542.0  |
| 47.5° | 489.7  |
| 50°   | 437.4  |
| 52.5° | 389.4  |
| 55°   | 342.9  |
| 57.5° | 300.8  |
| 60°   | 261.6  |
| 62.5° | 226.7  |
| 65°   | 193.3  |
| 67.5° | 165.7  |
| 70°   | 136.6  |
| 72.5° | 111.9  |
| 75°   | 87.2   |
| 77.5° | 63.9   |
| 80°   | 40.7   |
| 82.5° | 23.3   |
| 85°   | 7.3    |
| 87.5° | 2.9    |
| 90°   | 0.0    |

(END OF REPORT)