

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: P600715

Luminaire Tested: 215-90-35K-LL6-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600715
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: 215-90-35K-LL6-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

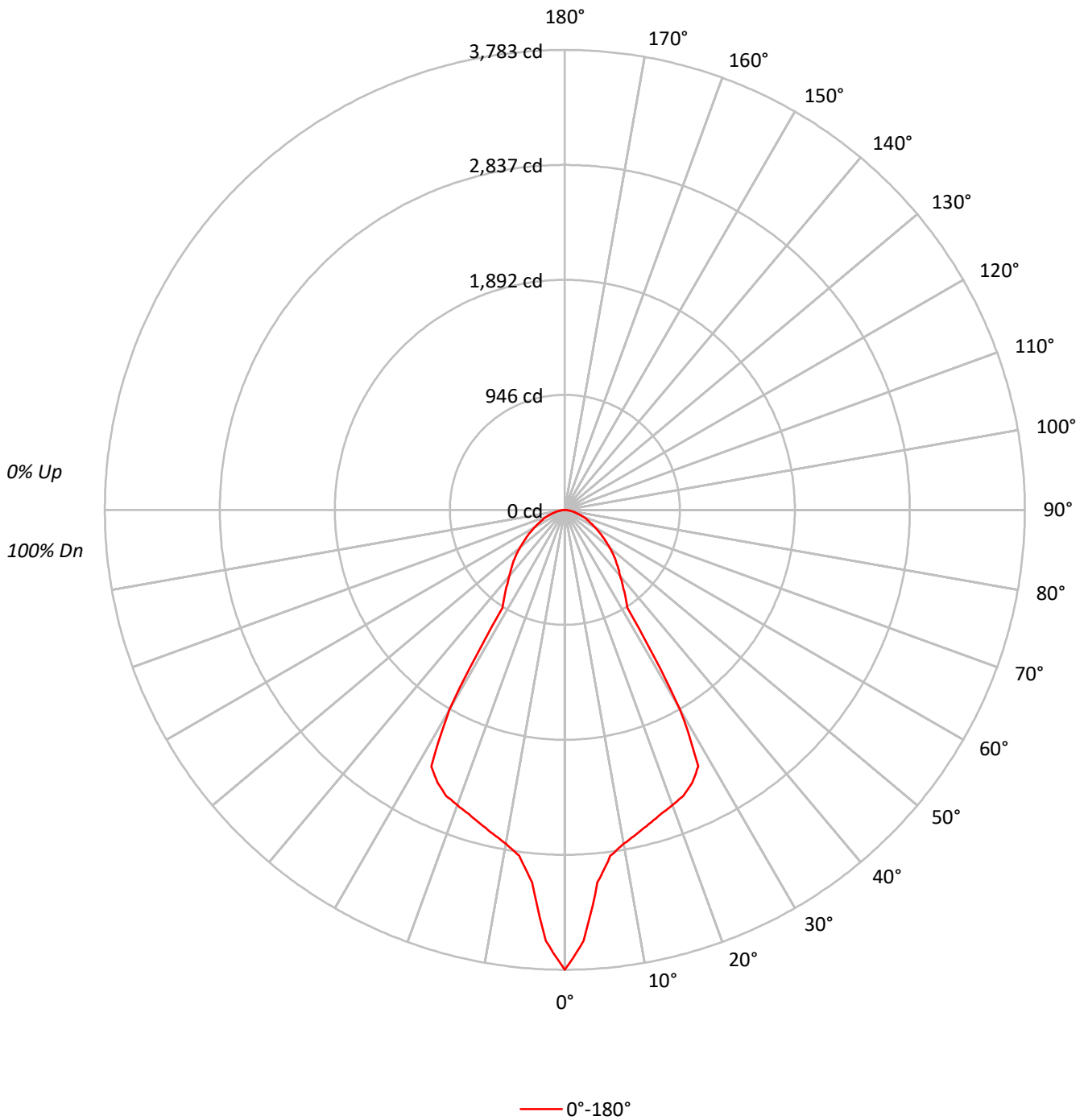
Lumens per Lamp: N/A
Luminaire Lumens: 3879.5 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 | |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 95 | 93 | 92 | 90 | | | 90 | |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 87 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 | | | 80 | |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | | | 72 | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 65 | | | 65 | |
| 5 | 85 | 75 | 68 | 63 | 84 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | | | 59 | |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 56 | 54 | | | 54 | |
| 7 | 76 | 65 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 51 | 50 | | | 50 | |
| 8 | 71 | 60 | 53 | 48 | 70 | 60 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 46 | | | 46 | |
| 9 | 68 | 56 | 49 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 53 | 48 | 44 | 43 | | | 43 | |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 45 | 41 | 50 | 45 | 41 | 40 | | | 40 | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 51848 |
| 5° | 42323 |
| 10° | 38805 |
| 15° | 37960 |
| 20° | 37697 |
| 25° | 37448 |
| 30° | 29946 |
| 35° | 14459 |
| 40° | 12670 |
| 45° | 11505 |
| 50° | 10215 |
| 55° | 8975 |
| 60° | 7853 |
| 65° | 6865 |
| 70° | 5995 |
| 75° | 5057 |
| 80° | 3520 |
| 85° | 1258 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11505 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 288.0 | 7.4 |
| 10°-20° | 756.4 | 19.5 |
| 20°-30° | 1108.0 | 28.6 |
| 30°-40° | 602.2 | 15.5 |
| 40°-50° | 457.0 | 11.8 |
| 50°-60° | 338.0 | 8.7 |
| 60°-70° | 212.4 | 5.5 |
| 70°-80° | 101.4 | 2.6 |
| 80°-90° | 16.0 | 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° | 2152.4 | 55.5 |
| 0°-40° | 2754.6 | 71.0 |
| 0°-60° | 3549.6 | 91.5 |
| 0°-90° | 3879.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3879.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3783 | |
| 5° | 3076 | 288 |
| 15° | 2675 | 756 |
| 25° | 2476 | 1108 |
| 35° | 864 | 602 |
| 45° | 594 | 457 |
| 55° | 376 | 338 |
| 65° | 212 | 212 |
| 75° | 96 | 101 |
| 85° | 8 | 16 |
| 90° | 0 | |



TEST NUMBER: P600715

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3783.1 |
| 2.5° | 3549.1 |
| 5° | 3076.4 |
| 7.5° | 2869.5 |
| 10° | 2788.4 |
| 12.5° | 2729.5 |
| 15° | 2675.4 |
| 17.5° | 2624.5 |
| 20° | 2584.7 |
| 22.5° | 2546.5 |
| 25° | 2476.4 |
| 27.5° | 2377.8 |
| 30° | 1892.3 |
| 32.5° | 954.9 |
| 35° | 864.2 |
| 37.5° | 781.4 |
| 40° | 708.2 |
| 42.5° | 649.3 |
| 45° | 593.6 |
| 47.5° | 536.3 |
| 50° | 479.1 |
| 52.5° | 426.5 |
| 55° | 375.6 |
| 57.5° | 329.4 |
| 60° | 286.5 |
| 62.5° | 248.3 |
| 65° | 211.7 |
| 67.5° | 181.4 |
| 70° | 149.6 |
| 72.5° | 122.5 |
| 75° | 95.5 |
| 77.5° | 70.0 |
| 80° | 44.6 |
| 82.5° | 25.5 |
| 85° | 8.0 |
| 87.5° | 3.2 |
| 90° | 0.0 |

(END OF REPORT)