

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: P600701

Luminaire Tested: 215-90-35K-LL1-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600701
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-LL1-UNV-STD-X-X-WHHR-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

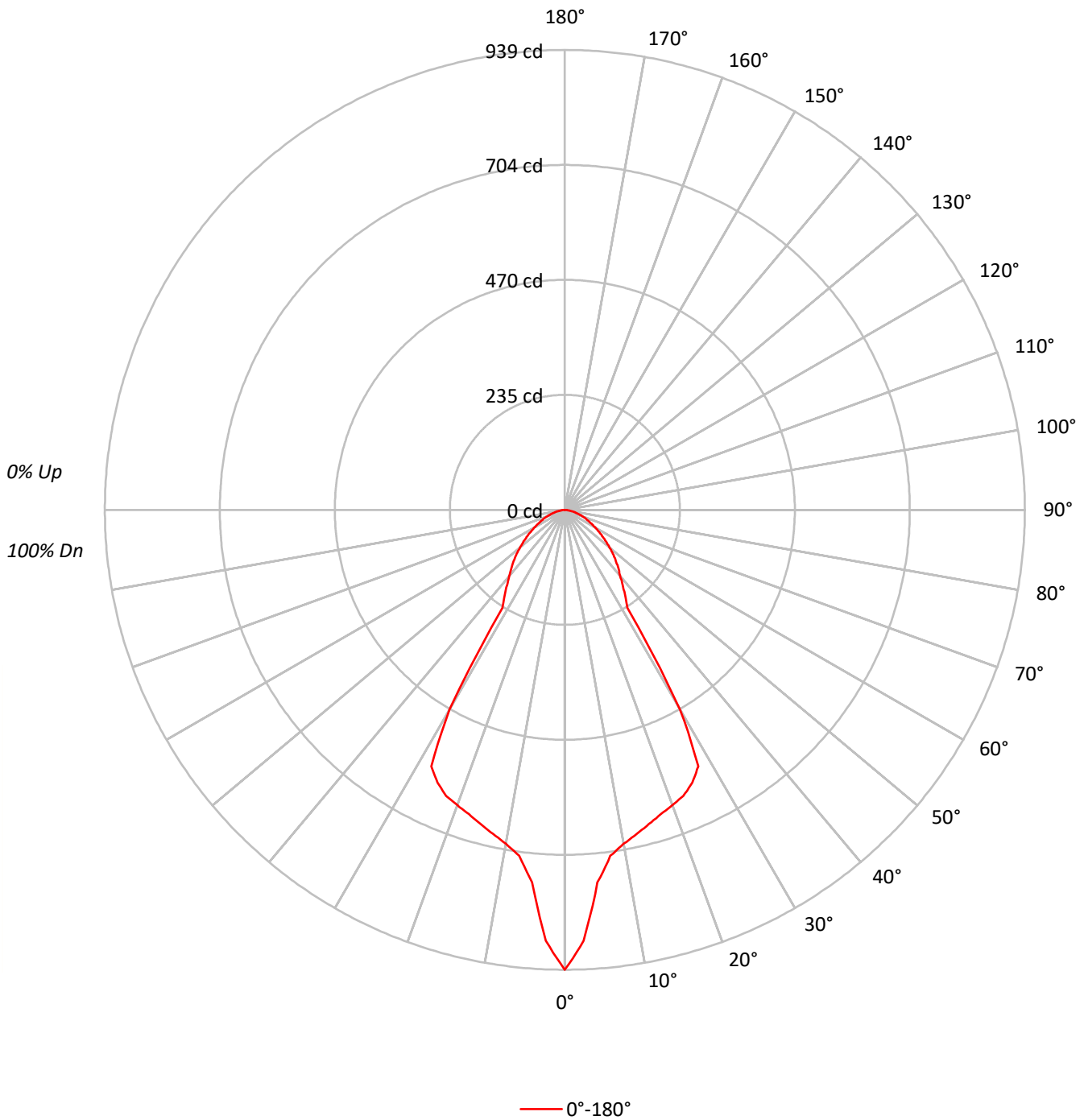
Lumens per Lamp: N/A
Luminaire Lumens: 963.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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





TEST NUMBER: P600701

CATALOG NUMBER: 215-90-35K-LL1-UNV-STD-X-X-WHHR-FL-X

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 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° | 12870 |
| 5° | 10507 |
| 10° | 9633 |
| 15° | 9423 |
| 20° | 9357 |
| 25° | 9297 |
| 30° | 7435 |
| 35° | 3589 |
| 40° | 3145 |
| 45° | 2857 |
| 50° | 2535 |
| 55° | 2227 |
| 60° | 1949 |
| 65° | 1703 |
| 70° | 1487 |
| 75° | 1255 |
| 80° | 876 |
| 85° | 314 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2857 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.5 | 7.4 |
| 10°-20° | 187.8 | 19.5 |
| 20°-30° | 275.1 | 28.6 |
| 30°-40° | 149.5 | 15.5 |
| 40°-50° | 113.4 | 11.8 |
| 50°-60° | 83.9 | 8.7 |
| 60°-70° | 52.7 | 5.5 |
| 70°-80° | 25.2 | 2.6 |
| 80°-90° | 4.0 | 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° | 534.3 | 55.5 |
| 0°-40° | 683.8 | 71.0 |
| 0°-60° | 881.2 | 91.5 |
| 0°-90° | 963.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 963.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 939 | |
| 5° | 764 | 71 |
| 15° | 664 | 188 |
| 25° | 615 | 275 |
| 35° | 214 | 149 |
| 45° | 147 | 113 |
| 55° | 93 | 84 |
| 65° | 52 | 53 |
| 75° | 24 | 25 |
| 85° | 2 | 4 |
| 90° | 0 | |



TEST NUMBER: P600701

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 939.1 |
| 2.5° | 881.0 |
| 5° | 763.7 |
| 7.5° | 712.3 |
| 10° | 692.2 |
| 12.5° | 677.6 |
| 15° | 664.1 |
| 17.5° | 651.5 |
| 20° | 641.6 |
| 22.5° | 632.1 |
| 25° | 614.8 |
| 27.5° | 590.3 |
| 30° | 469.8 |
| 32.5° | 237.1 |
| 35° | 214.5 |
| 37.5° | 194.0 |
| 40° | 175.8 |
| 42.5° | 161.2 |
| 45° | 147.4 |
| 47.5° | 133.1 |
| 50° | 118.9 |
| 52.5° | 105.9 |
| 55° | 93.2 |
| 57.5° | 81.8 |
| 60° | 71.1 |
| 62.5° | 61.6 |
| 65° | 52.5 |
| 67.5° | 45.0 |
| 70° | 37.1 |
| 72.5° | 30.4 |
| 75° | 23.7 |
| 77.5° | 17.4 |
| 80° | 11.1 |
| 82.5° | 6.3 |
| 85° | 2.0 |
| 87.5° | 0.8 |
| 90° | 0.0 |

(END OF REPORT)