

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: P600583

Luminaire Tested: 205-90-30K-LL2-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 205-90-30K-LL2-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

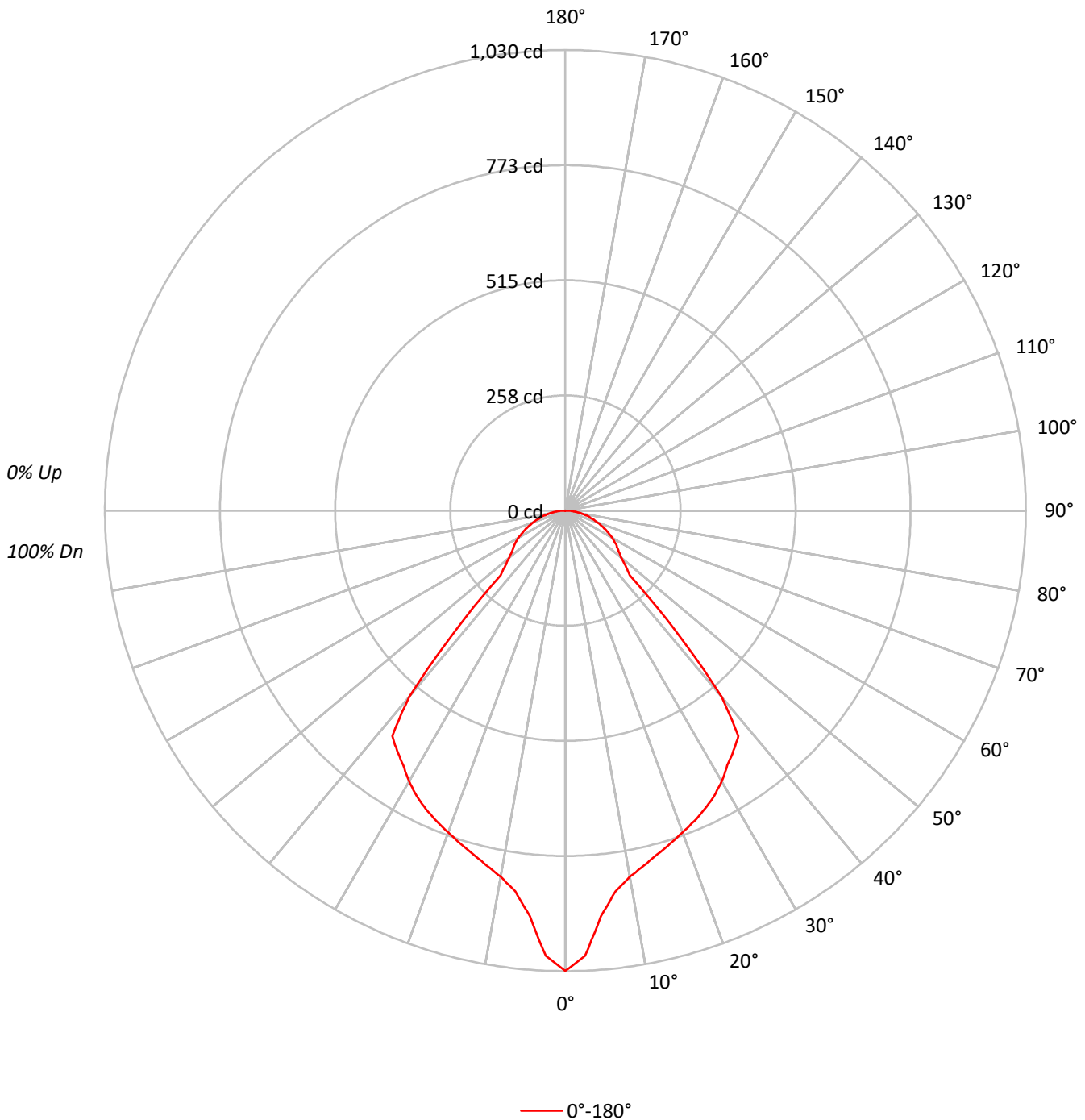
Lumens per Lamp: N/A
Luminaire Lumens: 1563.7 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.9
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



TEST NUMBER: P600583
CATALOG NUMBER: 205-90-30K-LL2-UNV-STD-X-X-WHHR-BR-X

Luminous Intensity Polar Plot





TEST NUMBER: P600583

CATALOG NUMBER: 205-90-30K-LL2-UNV-STD-X-X-WHHR-BR-X

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 | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99 | 100 | 98 | 95 | | 97 | 95 | 93 | | 93 | 91 | 90 | 88 |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | | 88 | 84 | 81 | | 85 | 82 | 79 | 77 |
| 3 | 95 | 87 | 80 | 74 | 93 | 85 | 79 | 74 | 82 | 77 | 72 | | 80 | 75 | 71 | | 77 | 73 | 70 | 68 |
| 4 | 89 | 79 | 71 | 65 | 87 | 77 | 70 | 65 | 75 | 69 | 64 | | 73 | 68 | 63 | | 71 | 66 | 63 | 61 |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | | 67 | 61 | 57 | | 65 | 60 | 56 | 54 |
| 6 | 77 | 66 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 52 | | 61 | 56 | 51 | | 60 | 55 | 51 | 49 |
| 7 | 72 | 60 | 53 | 47 | 71 | 60 | 52 | 47 | 58 | 52 | 47 | | 57 | 51 | 46 | | 56 | 50 | 46 | 44 |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 47 | 43 | | 53 | 47 | 42 | | 52 | 46 | 42 | 41 |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | | 49 | 43 | 39 | | 48 | 43 | 39 | 37 |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | | 46 | 40 | 36 | | 45 | 40 | 36 | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 7937 |
| 5° | 7048 |
| 10° | 6511 |
| 15° | 6351 |
| 20° | 6283 |
| 25° | 6269 |
| 30° | 6226 |
| 35° | 6172 |
| 40° | 5471 |
| 45° | 2227 |
| 50° | 1960 |
| 55° | 1896 |
| 60° | 1856 |
| 65° | 1779 |
| 70° | 1706 |
| 75° | 1638 |
| 80° | 1572 |
| 85° | 1539 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2227 cd/sqm



TEST NUMBER: P600583

CATALOG NUMBER: 205-90-30K-LL2-UNV-STD-X-X-WHHR-BR-X

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.8 | 5.4 |
| 10°-20° | 225.0 | 14.4 |
| 20°-30° | 339.5 | 21.7 |
| 30°-40° | 404.9 | 25.9 |
| 40°-50° | 209.4 | 13.4 |
| 50°-60° | 126.3 | 8.1 |
| 60°-70° | 96.8 | 6.2 |
| 70°-80° | 58.0 | 3.7 |
| 80°-90° | 19.0 | 1.2 |
| 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° | 649.3 | 41.5 |
| 0°-40° | 1054.2 | 67.4 |
| 0°-60° | 1389.9 | 88.9 |
| 0°-90° | 1563.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1563.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1030 | |
| 5° | 911 | 85 |
| 15° | 796 | 225 |
| 25° | 737 | 340 |
| 35° | 656 | 405 |
| 45° | 204 | 209 |
| 55° | 141 | 126 |
| 65° | 98 | 97 |
| 75° | 55 | 58 |
| 85° | 17 | 19 |
| 90° | 0 | |



TEST NUMBER: P600583

CATALOG NUMBER: 205-90-30K-LL2-UNV-STD-X-X-WHHR-BR-X

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1029.5 |
| 2.5° | 996.8 |
| 5° | 910.8 |
| 7.5° | 858.5 |
| 10° | 831.8 |
| 12.5° | 812.7 |
| 15° | 795.8 |
| 17.5° | 780.6 |
| 20° | 765.9 |
| 22.5° | 752.2 |
| 25° | 737.0 |
| 27.5° | 720.1 |
| 30° | 699.4 |
| 32.5° | 674.9 |
| 35° | 655.8 |
| 37.5° | 635.7 |
| 40° | 543.6 |
| 42.5° | 362.2 |
| 45° | 204.3 |
| 47.5° | 181.9 |
| 50° | 163.4 |
| 52.5° | 150.3 |
| 55° | 141.1 |
| 57.5° | 131.3 |
| 60° | 120.4 |
| 62.5° | 108.9 |
| 65° | 97.5 |
| 67.5° | 86.6 |
| 70° | 75.7 |
| 72.5° | 64.8 |
| 75° | 55.0 |
| 77.5° | 44.7 |
| 80° | 35.4 |
| 82.5° | 26.1 |
| 85° | 17.4 |
| 87.5° | 8.7 |
| 90° | 0.0 |

(END OF REPORT)