

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: P600560

Luminaire Tested: 235-90-27K-LL2-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600560
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: 235-90-27K-LL2-UNV-STD-X-X-WHHR-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

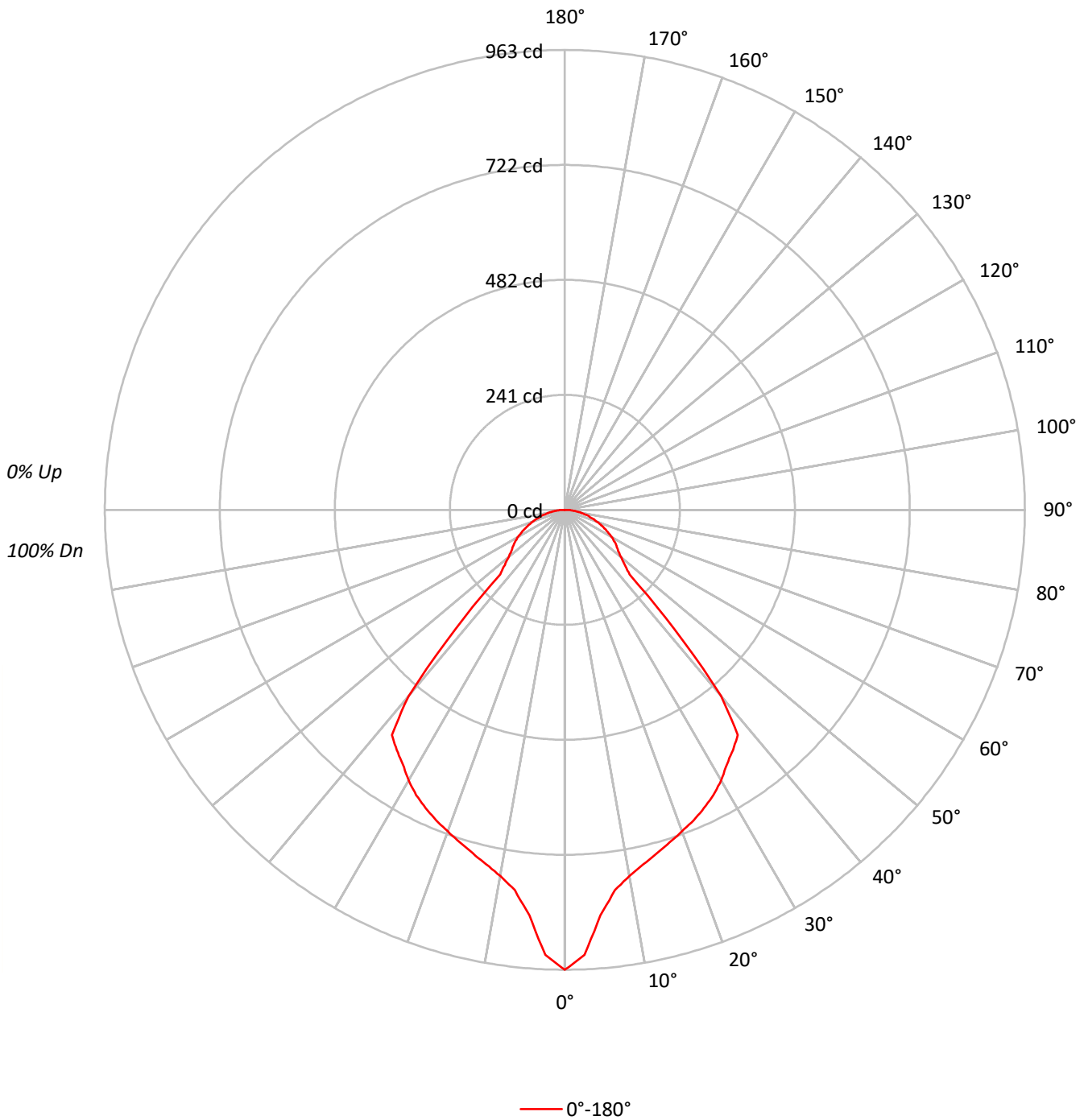
Lumens per Lamp: N/A
Luminaire Lumens: 1462.8 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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



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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				
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°	7424
5°	6593
10°	6091
15°	5941
20°	5877
25°	5864
30°	5824
35°	5774
40°	5117
45°	2083
50°	1834
55°	1774
60°	1736
65°	1664
70°	1596
75°	1534
80°	1469
85°	1442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2083 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	5.4
10°-20°	210.4	14.4
20°-30°	317.6	21.7
30°-40°	378.8	25.9
40°-50°	195.9	13.4
50°-60°	118.1	8.1
60°-70°	90.5	6.2
70°-80°	54.3	3.7
80°-90°	17.8	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°	607.4	41.5
0°-40°	986.1	67.4
0°-60°	1300.1	88.9
0°-90°	1462.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1462.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	963	
5°	852	79
15°	744	210
25°	689	318
35°	614	379
45°	191	196
55°	132	118
65°	91	91
75°	52	54
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	963.0
2.5°	932.5
5°	852.0
7.5°	803.0
10°	778.1
12.5°	760.2
15°	744.4
17.5°	730.2
20°	716.4
22.5°	703.7
25°	689.4
27.5°	673.6
30°	654.2
32.5°	631.3
35°	613.5
37.5°	594.6
40°	508.5
42.5°	338.8
45°	191.1
47.5°	170.2
50°	152.9
52.5°	140.6
55°	132.0
57.5°	122.8
60°	112.6
62.5°	101.9
65°	91.2
67.5°	81.0
70°	70.8
72.5°	60.6
75°	51.5
77.5°	41.8
80°	33.1
82.5°	24.5
85°	16.3
87.5°	8.2
90°	0.0

(END OF REPORT)