

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: P600559

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600559
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-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

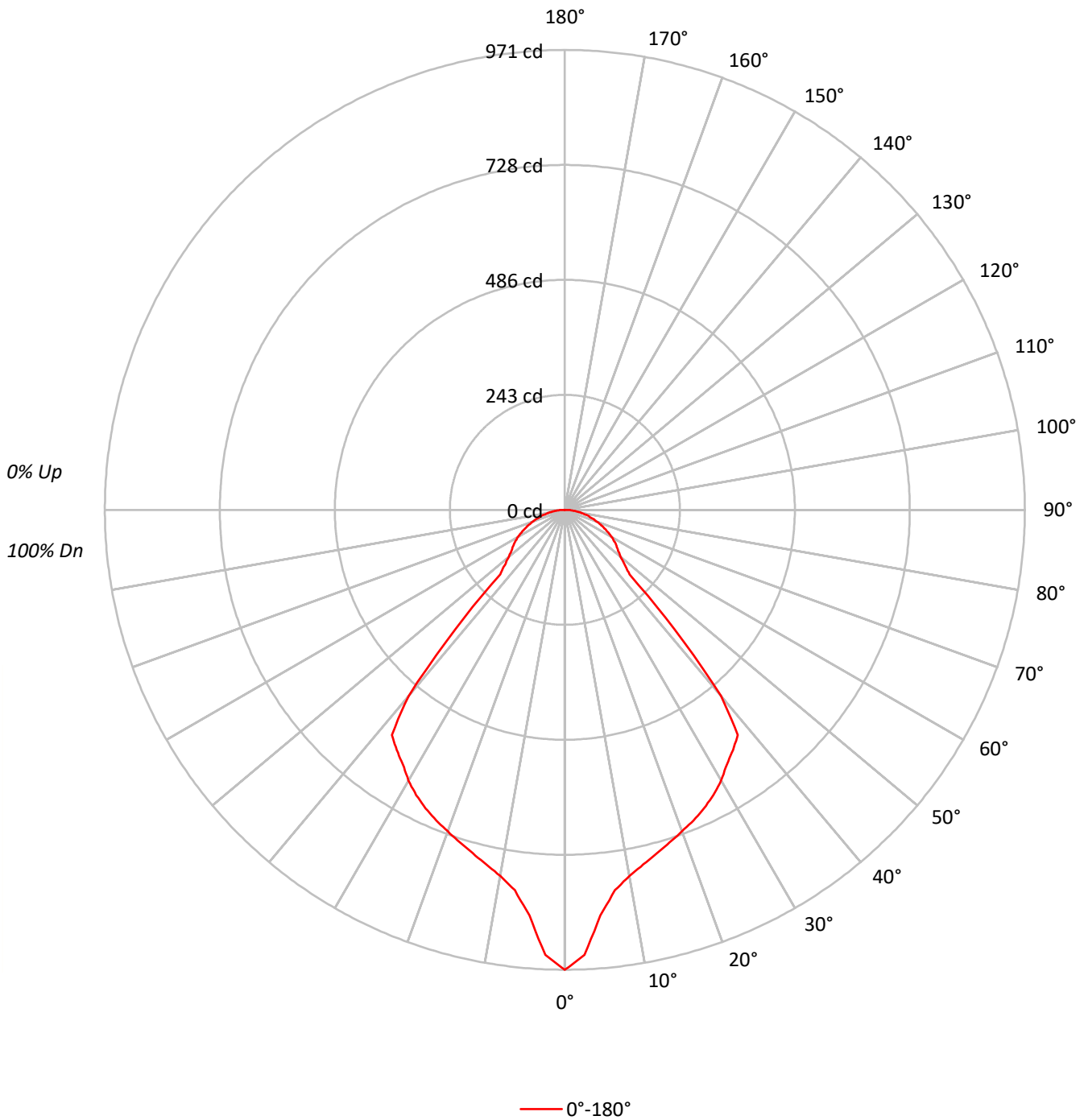
Lumens per Lamp: N/A
Luminaire Lumens: 1475.1 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	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°	7486
5°	6648
10°	6142
15°	5991
20°	5926
25°	5913
30°	5872
35°	5822
40°	5161
45°	2101
50°	1848
55°	1789
60°	1752
65°	1678
70°	1609
75°	1546
80°	1483
85°	1451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2101 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	5.4
10°-20°	212.2	14.4
20°-30°	320.3	21.7
30°-40°	381.9	25.9
40°-50°	197.5	13.4
50°-60°	119.1	8.1
60°-70°	91.3	6.2
70°-80°	54.7	3.7
80°-90°	18.0	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°	612.5	41.5
0°-40°	994.4	67.4
0°-60°	1311.1	88.9
0°-90°	1475.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1475.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	971	
5°	859	80
15°	751	212
25°	695	320
35°	619	382
45°	193	198
55°	133	119
65°	92	91
75°	52	55
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	971.1
2.5°	940.3
5°	859.1
7.5°	809.8
10°	784.6
12.5°	766.6
15°	750.7
17.5°	736.3
20°	722.4
22.5°	709.6
25°	695.2
27.5°	679.3
30°	659.7
32.5°	636.6
35°	618.6
37.5°	599.6
40°	512.8
42.5°	341.7
45°	192.7
47.5°	171.6
50°	154.1
52.5°	141.8
55°	133.1
57.5°	123.8
60°	113.6
62.5°	102.8
65°	92.0
67.5°	81.7
70°	71.4
72.5°	61.1
75°	51.9
77.5°	42.1
80°	33.4
82.5°	24.7
85°	16.4
87.5°	8.2
90°	0.0

(END OF REPORT)