

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: P600566

Luminaire Tested: 235-90-27K-LL4-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600566
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-LL4-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

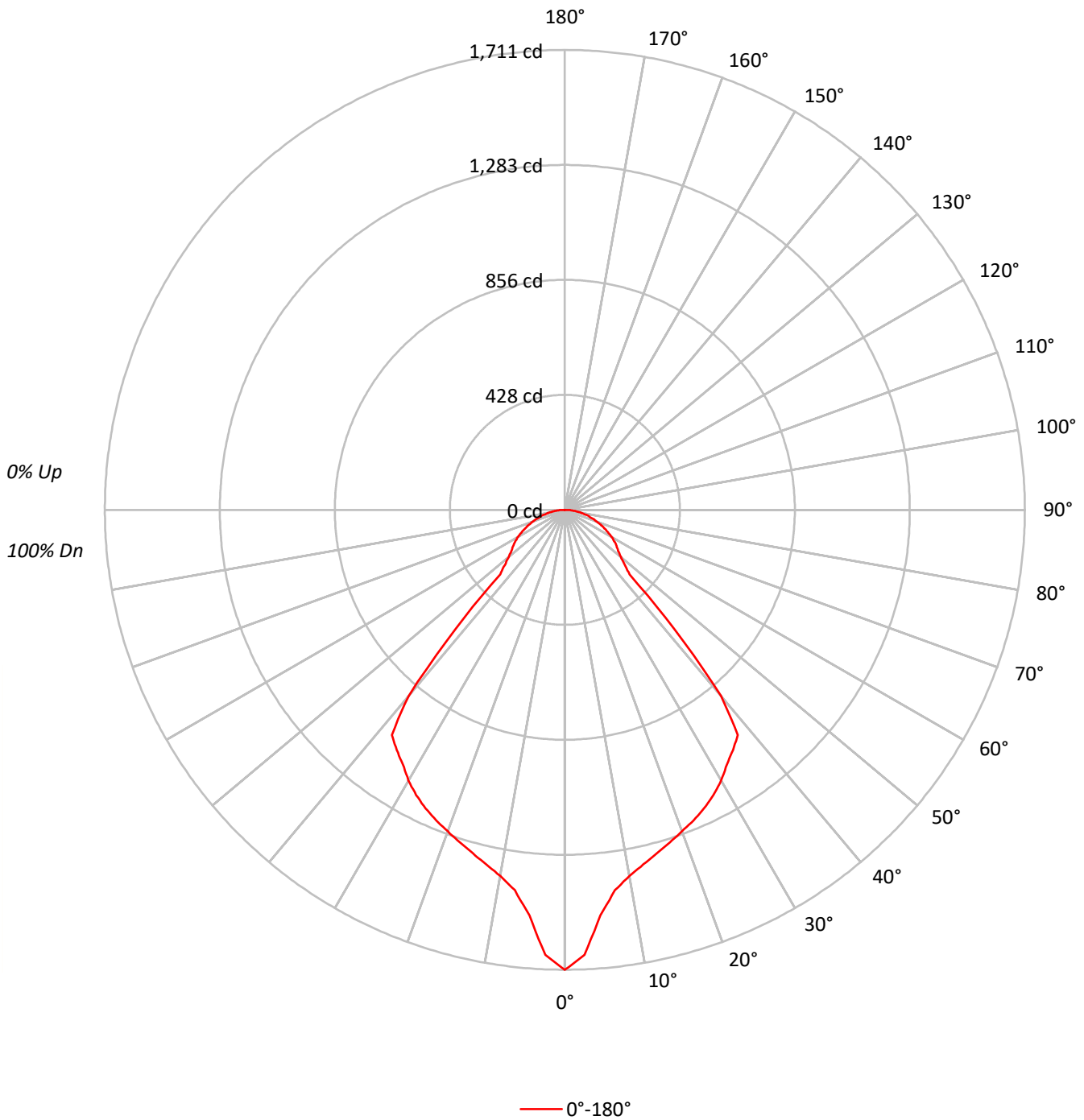
Lumens per Lamp: N/A
Luminaire Lumens: 2599.3 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 23.2
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									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	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	100	100	100	100	100	100	100	100	100	100																
	1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88	88	88	88	88	88	88	88	88	88																
	2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77	77	77	77	77	77	77	77	77	77	77	77																
	3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68	68	68	68	68	68	68	68	68	68	68															
	4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61	61	61	61	61	61	61	61	61	61	61	61	61															
	5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54	54	54	54	54	54	54	54	54	54	54	54	54															
	6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49	49	49	49	49	49	49	49	49	49															
	7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44	44	44	44	44	44	44	44	44	44	44	44	44															
	8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41	41	41	41	41	41	41	41	41	41	41	41	41															
	9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37	37	37	37	37	37	37	37	37	37	37	37	37															
	10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34	34	34	34	34	34	34	34	34	34	34	34	34															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13193
5°	11715
10°	10823
15°	10557
20°	10444
25°	10421
30°	10349
35°	10259
40°	9093
45°	3701
50°	3257
55°	3152
60°	3085
65°	2957
70°	2838
75°	2722
80°	2615
85°	2565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3701 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	5.4
10°-20°	374.0	14.4
20°-30°	564.4	21.7
30°-40°	673.0	25.9
40°-50°	348.0	13.4
50°-60°	209.9	8.1
60°-70°	160.9	6.2
70°-80°	96.5	3.7
80°-90°	31.7	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°	1079.3	41.5
0°-40°	1752.4	67.4
0°-60°	2310.3	88.9
0°-90°	2599.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2599.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1711	
5°	1514	141
15°	1323	374
25°	1225	564
35°	1090	673
45°	340	348
55°	234	210
65°	162	161
75°	91	96
85°	29	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1711.3
2.5°	1656.9
5°	1513.9
7.5°	1427.0
10°	1382.6
12.5°	1350.9
15°	1322.8
17.5°	1297.5
20°	1273.0
22.5°	1250.4
25°	1225.1
27.5°	1197.0
30°	1162.6
32.5°	1121.8
35°	1090.1
37.5°	1056.6
40°	903.6
42.5°	602.1
45°	339.5
47.5°	302.4
50°	271.6
52.5°	249.9
55°	234.5
57.5°	218.2
60°	200.1
62.5°	181.1
65°	162.1
67.5°	144.0
70°	125.9
72.5°	107.7
75°	91.4
77.5°	74.2
80°	58.9
82.5°	43.5
85°	29.0
87.5°	14.5
90°	0.0

(END OF REPORT)