

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: P600579

Luminaire Tested: 235-90-27K-LL8-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600579  
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-LL8-UNV-STD-X-X-WHHR-SR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

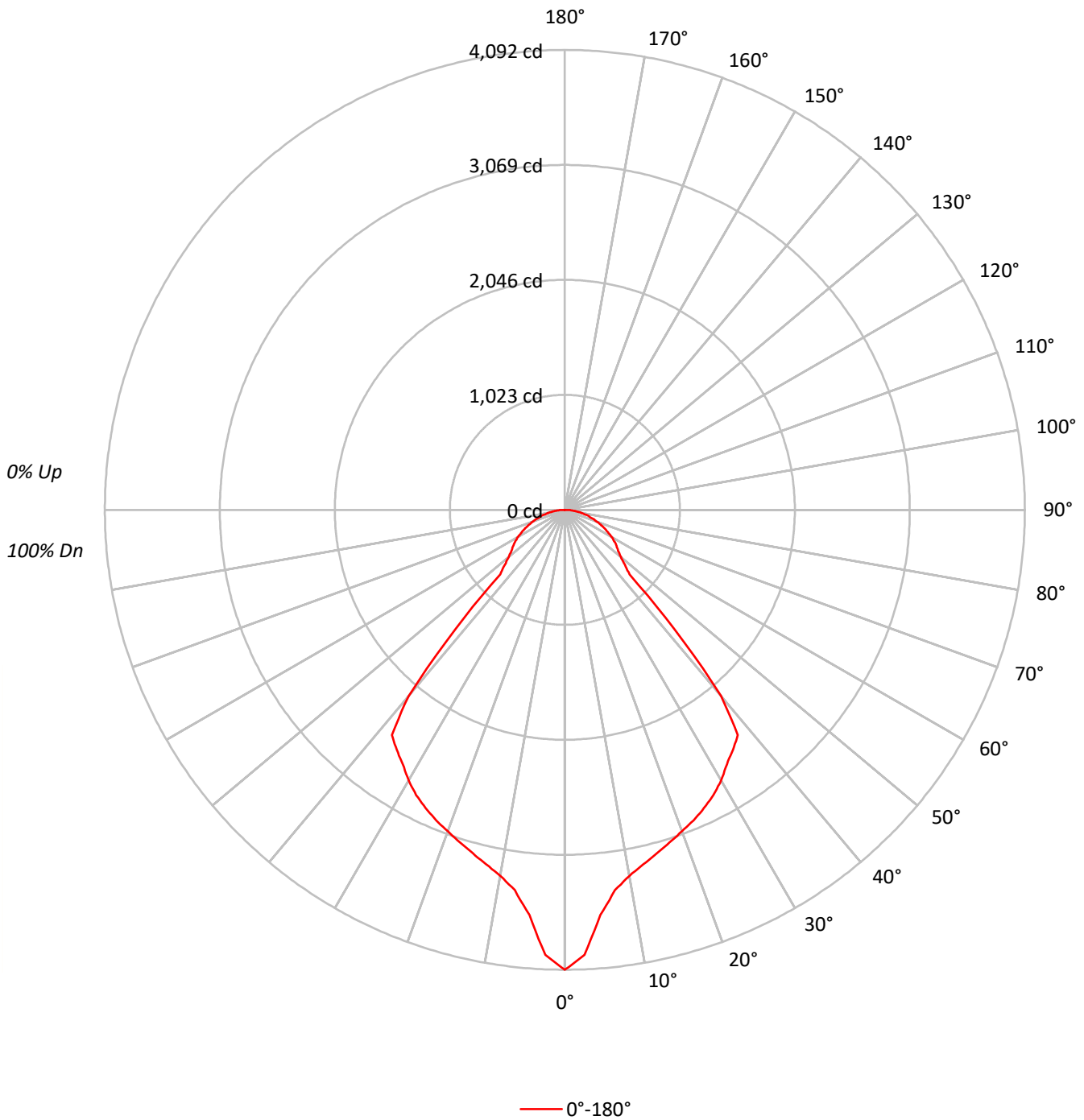
Lumens per Lamp: N/A  
Luminaire Lumens: 6215.3 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.2  
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	
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°	31545
5°	28013
10°	25880
15°	25245
20°	24973
25°	24917
30°	24746
35°	24532
40°	21744
45°	8852
50°	7790
55°	7536
60°	7378
65°	7069
70°	6782
75°	6514
80°	6246
85°	6130

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8852 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.1	5.4
10°-20°	894.2	14.4
20°-30°	1349.6	21.7
30°-40°	1609.4	25.9
40°-50°	832.2	13.4
50°-60°	501.9	8.1
60°-70°	384.6	6.2
70°-80°	230.7	3.7
80°-90°	75.7	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°	2580.8	41.5
0°-40°	4190.2	67.4
0°-60°	5524.3	88.9
0°-90°	6215.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6215.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4092	
5°	3620	337
15°	3163	894
25°	2929	1350
35°	2607	1609
45°	812	832
55°	561	502
65°	388	385
75°	219	231
85°	69	76
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4091.9
2.5°	3962.0
5°	3619.9
7.5°	3412.1
10°	3306.0
12.5°	3230.2
15°	3163.1
17.5°	3102.5
20°	3044.0
22.5°	2989.9
25°	2929.3
27.5°	2862.1
30°	2779.9
32.5°	2682.5
35°	2606.7
37.5°	2526.6
40°	2160.7
42.5°	1439.7
45°	811.9
47.5°	723.1
50°	649.5
52.5°	597.5
55°	560.7
57.5°	521.8
60°	478.5
62.5°	433.0
65°	387.5
67.5°	344.2
70°	300.9
72.5°	257.6
75°	218.7
77.5°	177.5
80°	140.7
82.5°	103.9
85°	69.3
87.5°	34.6
90°	0.0

(END OF REPORT)