

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: P600618

Luminaire Tested: 235-90-35K-LL5-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600618  
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: 235-90-35K-LL5-UNV-STD-X-X-WHHR-SR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

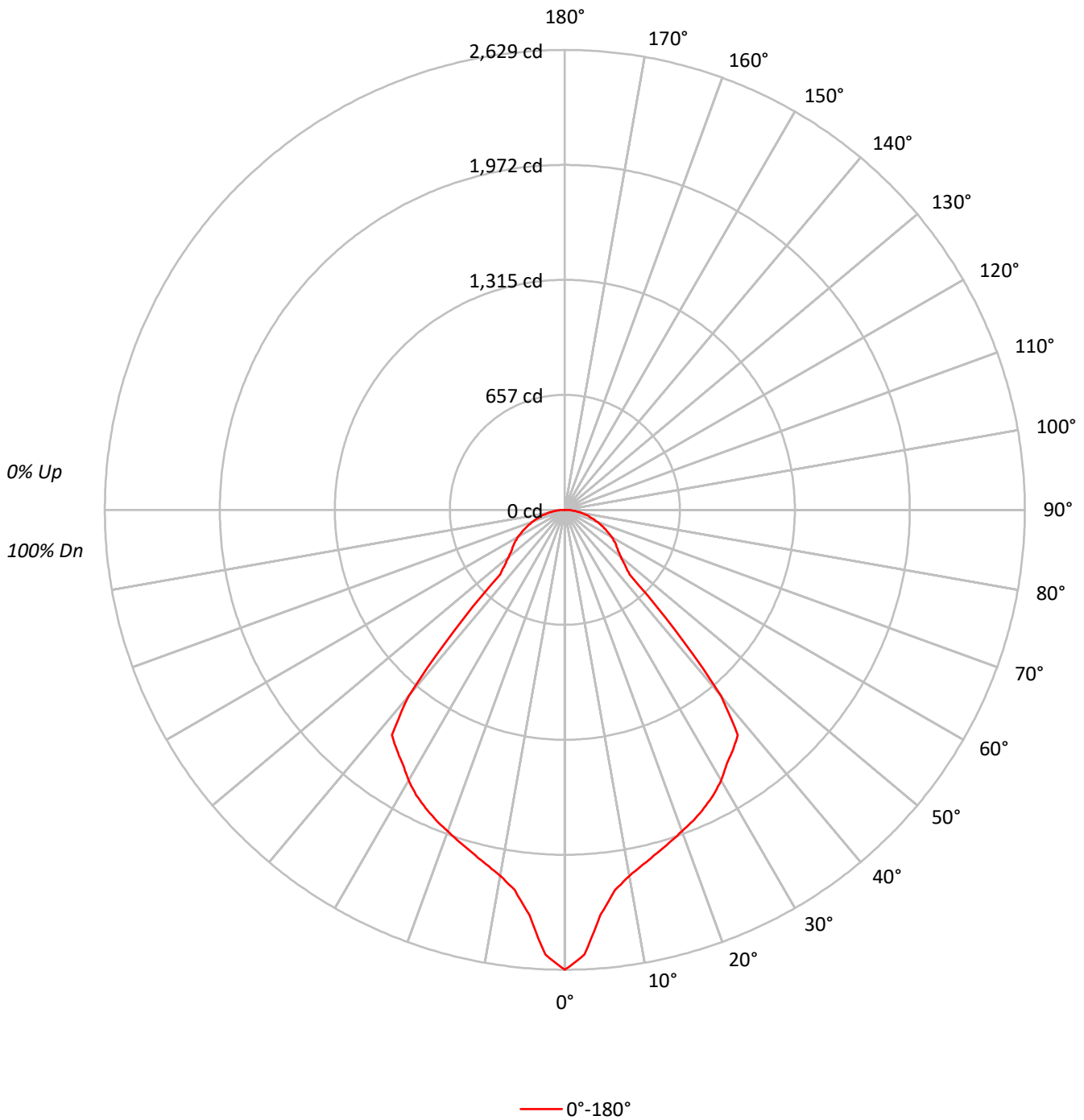
Lumens per Lamp: N/A  
Luminaire Lumens: 3992.9 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.6  
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°	20265
5°	17996
10°	16625
15°	16218
20°	16043
25°	16007
30°	15897
35°	15760
40°	13969
45°	5687
50°	5005
55°	4841
60°	4740
65°	4542
70°	4357
75°	4185
80°	4013
85°	3936

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5687 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	5.4
10°-20°	574.4	14.4
20°-30°	867.0	21.7
30°-40°	1033.9	25.9
40°-50°	534.6	13.4
50°-60°	322.4	8.1
60°-70°	247.1	6.2
70°-80°	148.2	3.7
80°-90°	48.7	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°	1658.0	41.5
0°-40°	2691.8	67.4
0°-60°	3548.9	88.9
0°-90°	3992.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3992.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2629	
5°	2326	217
15°	2032	574
25°	1882	867
35°	1675	1034
45°	522	535
55°	360	322
65°	249	247
75°	140	148
85°	44	49
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2628.7
2.5°	2545.2
5°	2325.5
7.5°	2192.0
10°	2123.8
12.5°	2075.1
15°	2032.0
17.5°	1993.1
20°	1955.5
22.5°	1920.8
25°	1881.8
27.5°	1838.7
30°	1785.8
32.5°	1723.3
35°	1674.6
37.5°	1623.1
40°	1388.1
42.5°	924.9
45°	521.6
47.5°	464.5
50°	417.3
52.5°	383.9
55°	360.2
57.5°	335.2
60°	307.4
62.5°	278.2
65°	249.0
67.5°	221.1
70°	193.3
72.5°	165.5
75°	140.5
77.5°	114.0
80°	90.4
82.5°	66.8
85°	44.5
87.5°	22.3
90°	0.0

(END OF REPORT)