

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: P600625

Luminaire Tested: 235-90-35K-LL8-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600625  
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-LL8-UNV-STD-X-X-WHHR-BR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

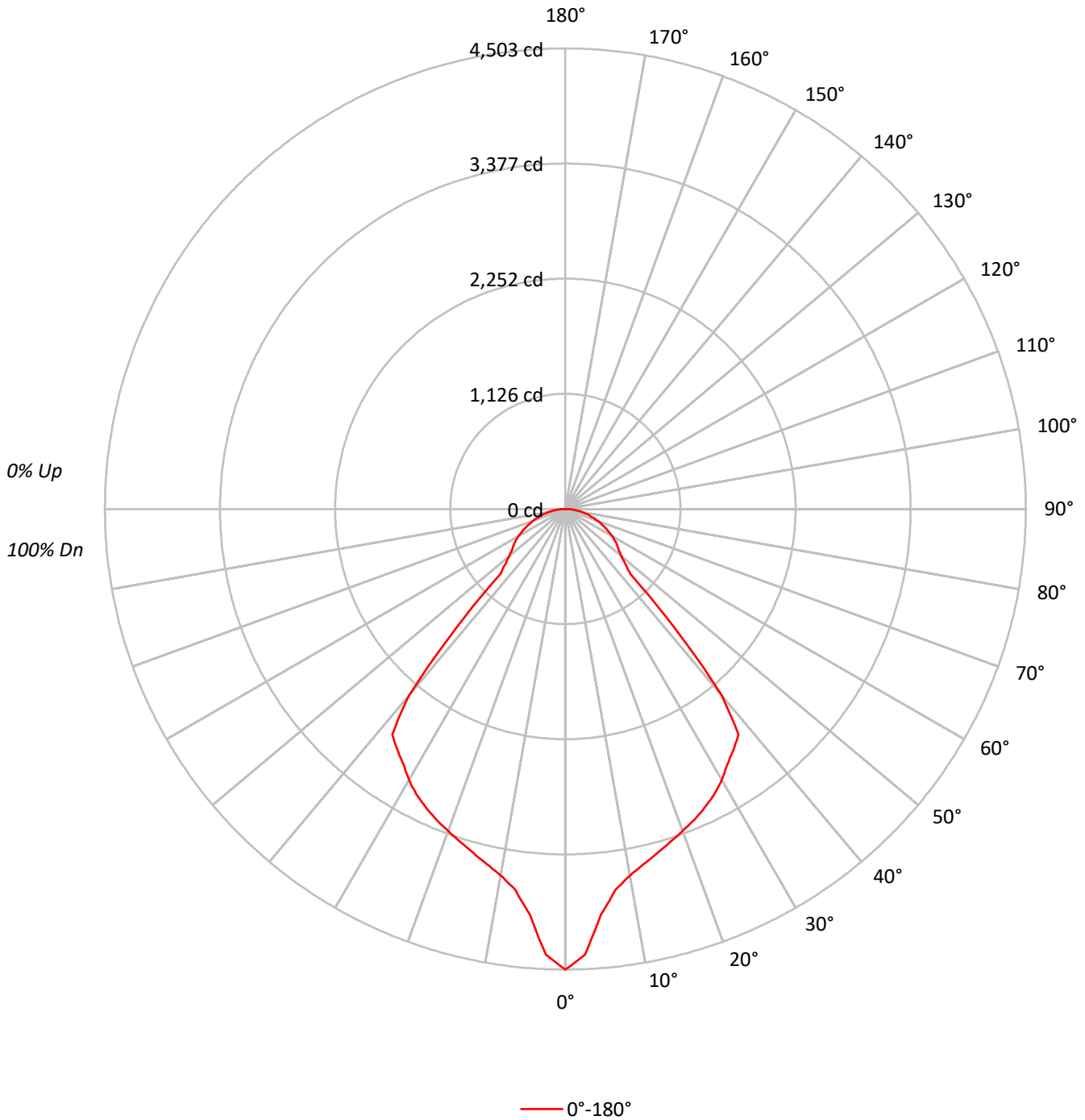
Lumens per Lamp: N/A  
Luminaire Lumens: 6839.9 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

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°	34714
5°	30827
10°	28479
15°	27781
20°	27481
25°	27420
30°	27232
35°	26997
40°	23929
45°	9740
50°	8573
55°	8294
60°	8118
65°	7780
70°	7465
75°	7166
80°	6877
85°	6740

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9740 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.9	5.4
10°-20°	984.0	14.4
20°-30°	1485.2	21.7
30°-40°	1771.1	25.9
40°-50°	915.9	13.4
50°-60°	552.4	8.1
60°-70°	423.3	6.2
70°-80°	253.9	3.7
80°-90°	83.3	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°	2840.1	41.5
0°-40°	4611.2	67.4
0°-60°	6079.4	88.9
0°-90°	6839.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6839.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4503	
5°	3984	371
15°	3481	984
25°	3224	1485
35°	2869	1771
45°	893	916
55°	617	552
65°	426	423
75°	241	254
85°	76	83
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4503.0
2.5°	4360.0
5°	3983.6
7.5°	3754.9
10°	3638.1
12.5°	3554.7
15°	3480.9
17.5°	3414.2
20°	3349.8
22.5°	3290.3
25°	3223.6
27.5°	3149.7
30°	3059.2
32.5°	2952.0
35°	2868.6
37.5°	2780.4
40°	2377.8
42.5°	1584.4
45°	893.4
47.5°	795.8
50°	714.8
52.5°	657.6
55°	617.1
57.5°	574.2
60°	526.5
62.5°	476.5
65°	426.5
67.5°	378.8
70°	331.2
72.5°	283.5
75°	240.6
77.5°	195.4
80°	154.9
82.5°	114.4
85°	76.2
87.5°	38.1
90°	0.0

(END OF REPORT)