

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: P600616

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

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600616  
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-BR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

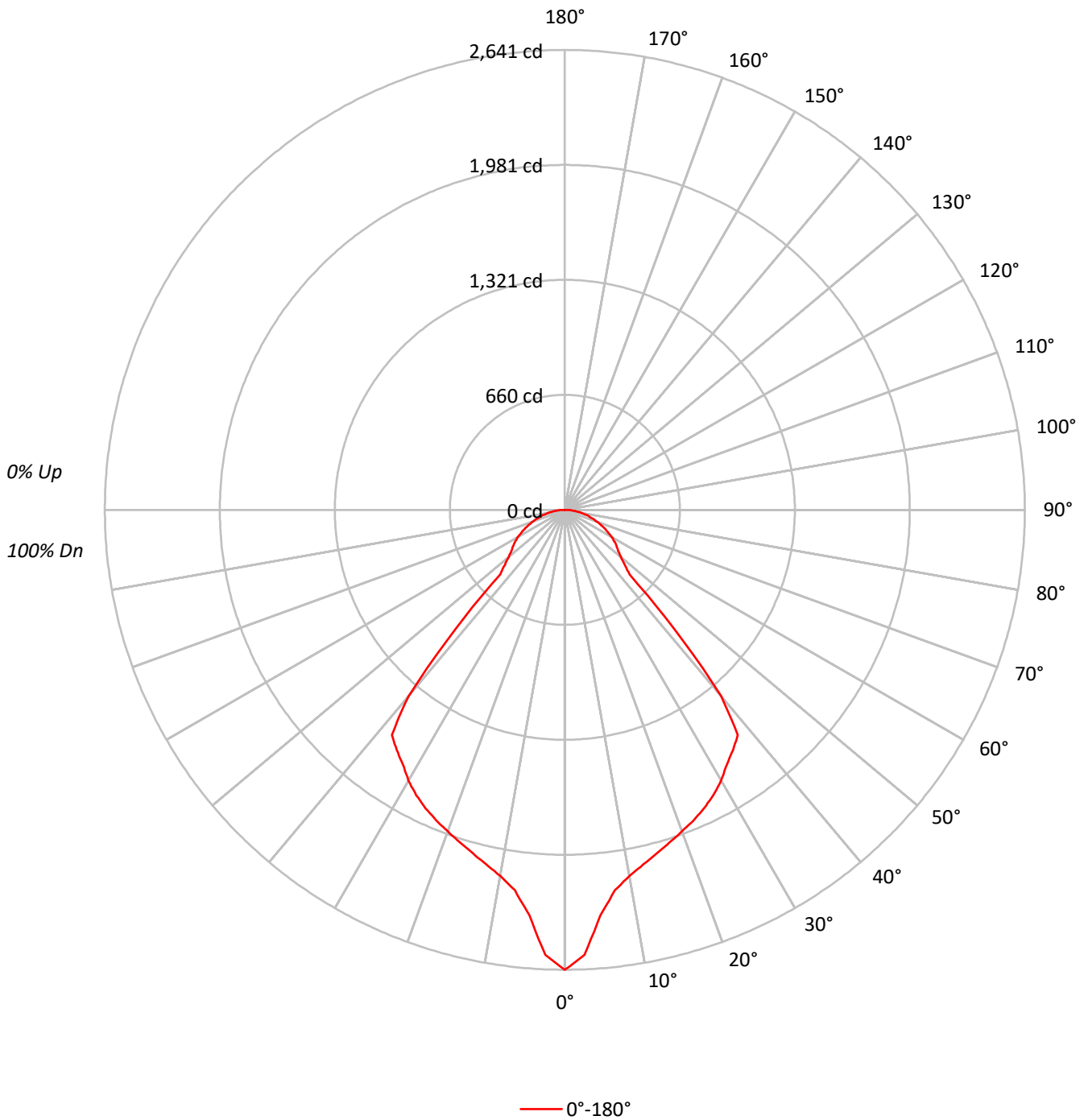
Lumens per Lamp: N/A  
Luminaire Lumens: 4011.9 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

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°	20361
5°	18082
10°	16704
15°	16295
20°	16119
25°	16083
30°	15972
35°	15835
40°	14036
45°	5714
50°	5028
55°	4864
60°	4761
65°	4562
70°	4377
75°	4203
80°	4031
85°	3954

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5714 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.6	5.4
10°-20°	577.2	14.4
20°-30°	871.1	21.7
30°-40°	1038.8	25.9
40°-50°	537.2	13.4
50°-60°	324.0	8.1
60°-70°	248.2	6.2
70°-80°	148.9	3.7
80°-90°	48.9	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°	1665.9	41.5
0°-40°	2704.7	67.4
0°-60°	3565.8	88.9
0°-90°	4011.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2641	
5°	2337	218
15°	2042	577
25°	1891	871
35°	1683	1039
45°	524	537
55°	362	324
65°	250	248
75°	141	149
85°	45	49
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2641.2
2.5°	2557.4
5°	2336.6
7.5°	2202.4
10°	2133.9
12.5°	2085.0
15°	2041.7
17.5°	2002.6
20°	1964.8
22.5°	1929.9
25°	1890.8
27.5°	1847.5
30°	1794.3
32.5°	1731.5
35°	1682.6
37.5°	1630.8
40°	1394.7
42.5°	929.3
45°	524.1
47.5°	466.8
50°	419.2
52.5°	385.7
55°	361.9
57.5°	336.8
60°	308.8
62.5°	279.5
65°	250.1
67.5°	222.2
70°	194.2
72.5°	166.3
75°	141.1
77.5°	114.6
80°	90.8
82.5°	67.1
85°	44.7
87.5°	22.4
90°	0.0

(END OF REPORT)