

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: P600607

Luminaire Tested: 235-90-35K-LL2-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600607  
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-LL2-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**

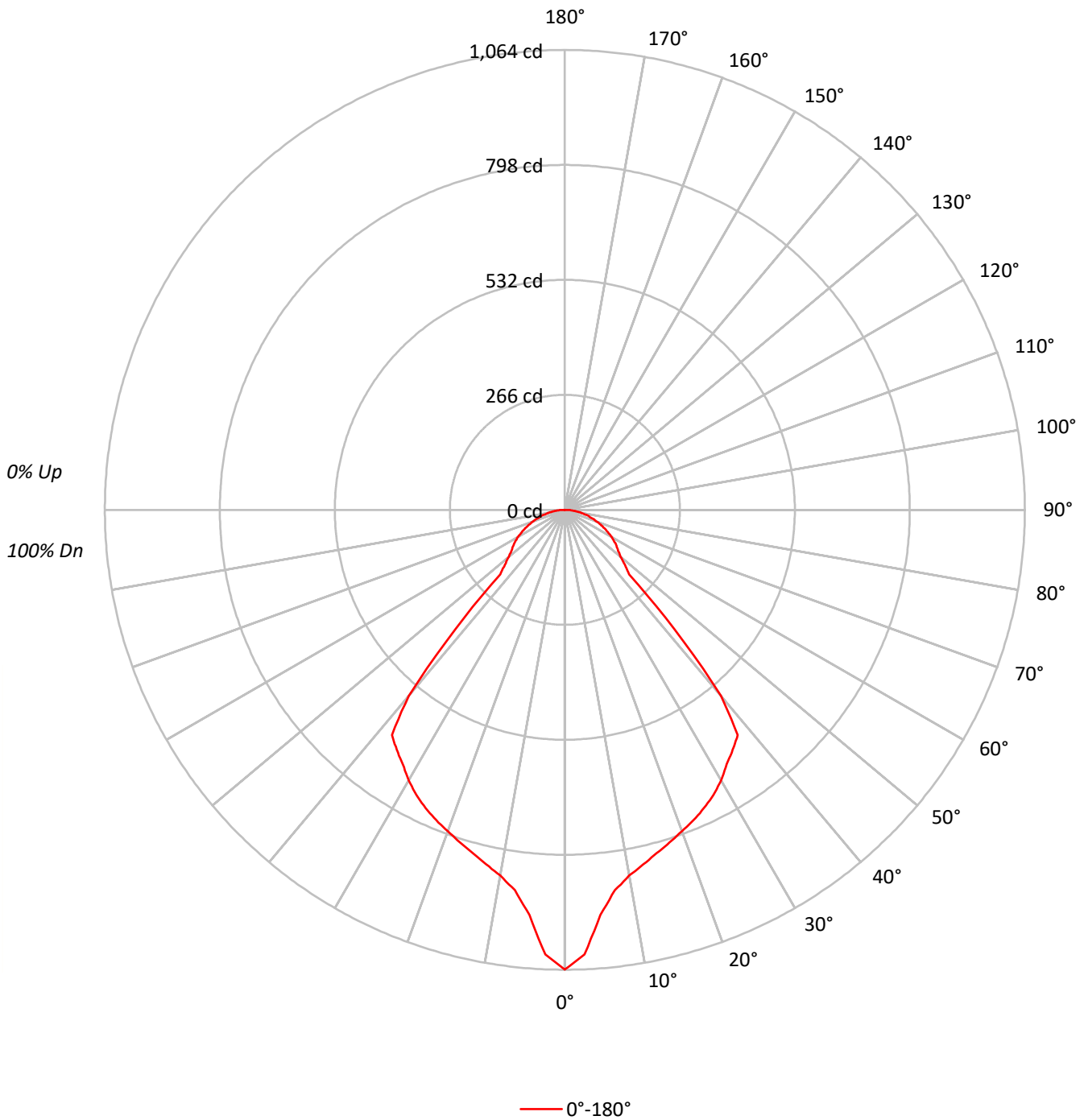
Lumens per Lamp: N/A  
Luminaire Lumens: 1615.6 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.9  
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°	8199
5°	7281
10°	6727
15°	6562
20°	6491
25°	6477
30°	6432
35°	6377
40°	5652
45°	2300
50°	2024
55°	1960
60°	1918
65°	1837
70°	1763
75°	1692
80°	1625
85°	1592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.6	5.4
10°-20°	232.4	14.4
20°-30°	350.8	21.7
30°-40°	418.3	25.9
40°-50°	216.3	13.4
50°-60°	130.5	8.1
60°-70°	100.0	6.2
70°-80°	60.0	3.7
80°-90°	19.7	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°	670.8	41.5
0°-40°	1089.2	67.4
0°-60°	1435.9	88.9
0°-90°	1615.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1064	
5°	941	88
15°	822	232
25°	761	351
35°	678	418
45°	211	216
55°	146	130
65°	101	100
75°	57	60
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1063.6
2.5°	1029.8
5°	940.9
7.5°	886.9
10°	859.3
12.5°	839.6
15°	822.2
17.5°	806.4
20°	791.2
22.5°	777.2
25°	761.4
27.5°	744.0
30°	722.6
32.5°	697.3
35°	677.6
37.5°	656.7
40°	561.6
42.5°	374.2
45°	211.0
47.5°	188.0
50°	168.8
52.5°	155.3
55°	145.8
57.5°	135.6
60°	124.4
62.5°	112.6
65°	100.7
67.5°	89.5
70°	78.2
72.5°	67.0
75°	56.8
77.5°	46.1
80°	36.6
82.5°	27.0
85°	18.0
87.5°	9.0
90°	0.0

(END OF REPORT)