

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: P600634

Luminaire Tested: 235-90-40K-LL3-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600634  
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: 235-90-40K-LL3-UNV-STD-X-X-WHHR-BR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

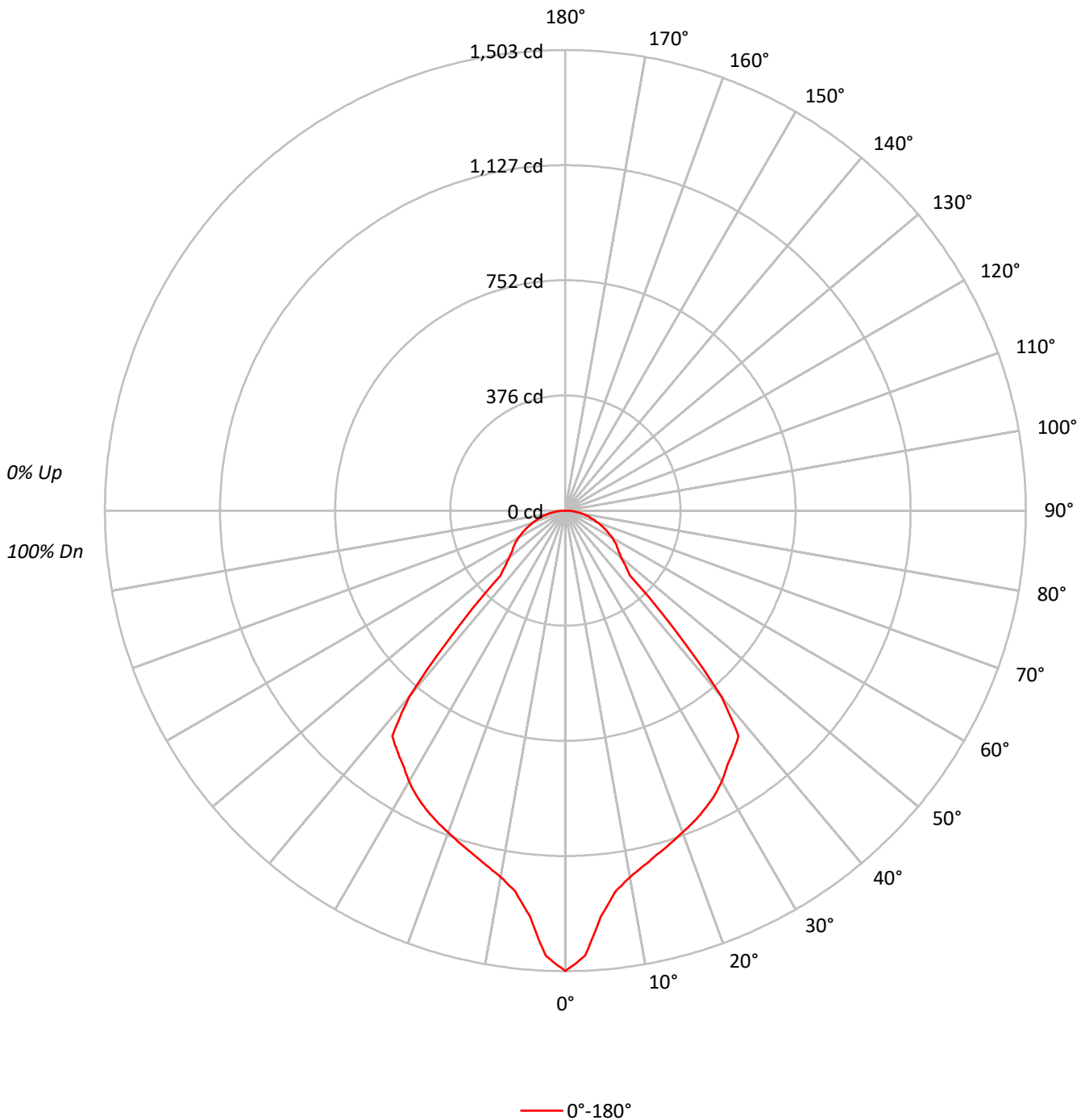
Lumens per Lamp: N/A  
Luminaire Lumens: 2282.3 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.4  
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°	11584
5°	10286
10°	9503
15°	9270
20°	9170
25°	9149
30°	9087
35°	9008
40°	7984
45°	3250
50°	2860
55°	2767
60°	2709
65°	2596
70°	2491
75°	2392
80°	2295
85°	2247

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3250 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.8	5.4
10°-20°	328.3	14.4
20°-30°	495.6	21.7
30°-40°	591.0	25.9
40°-50°	305.6	13.4
50°-60°	184.3	8.1
60°-70°	141.2	6.2
70°-80°	84.7	3.7
80°-90°	27.8	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°	947.7	41.5
0°-40°	1538.7	67.4
0°-60°	2028.5	88.9
0°-90°	2282.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1503	
5°	1329	124
15°	1162	328
25°	1076	496
35°	957	591
45°	298	306
55°	206	184
65°	142	141
75°	80	85
85°	25	28
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1502.6
2.5°	1454.9
5°	1329.2
7.5°	1252.9
10°	1214.0
12.5°	1186.1
15°	1161.5
17.5°	1139.2
20°	1117.8
22.5°	1097.9
25°	1075.6
27.5°	1051.0
30°	1020.8
32.5°	985.0
35°	957.2
37.5°	927.8
40°	793.4
42.5°	528.7
45°	298.1
47.5°	265.5
50°	238.5
52.5°	219.4
55°	205.9
57.5°	191.6
60°	175.7
62.5°	159.0
65°	142.3
67.5°	126.4
70°	110.5
72.5°	94.6
75°	80.3
77.5°	65.2
80°	51.7
82.5°	38.2
85°	25.4
87.5°	12.7
90°	0.0

(END OF REPORT)