

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: P600628

Luminaire Tested: 225-90-40K-LL1-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600628  
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: 225-90-40K-LL1-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**

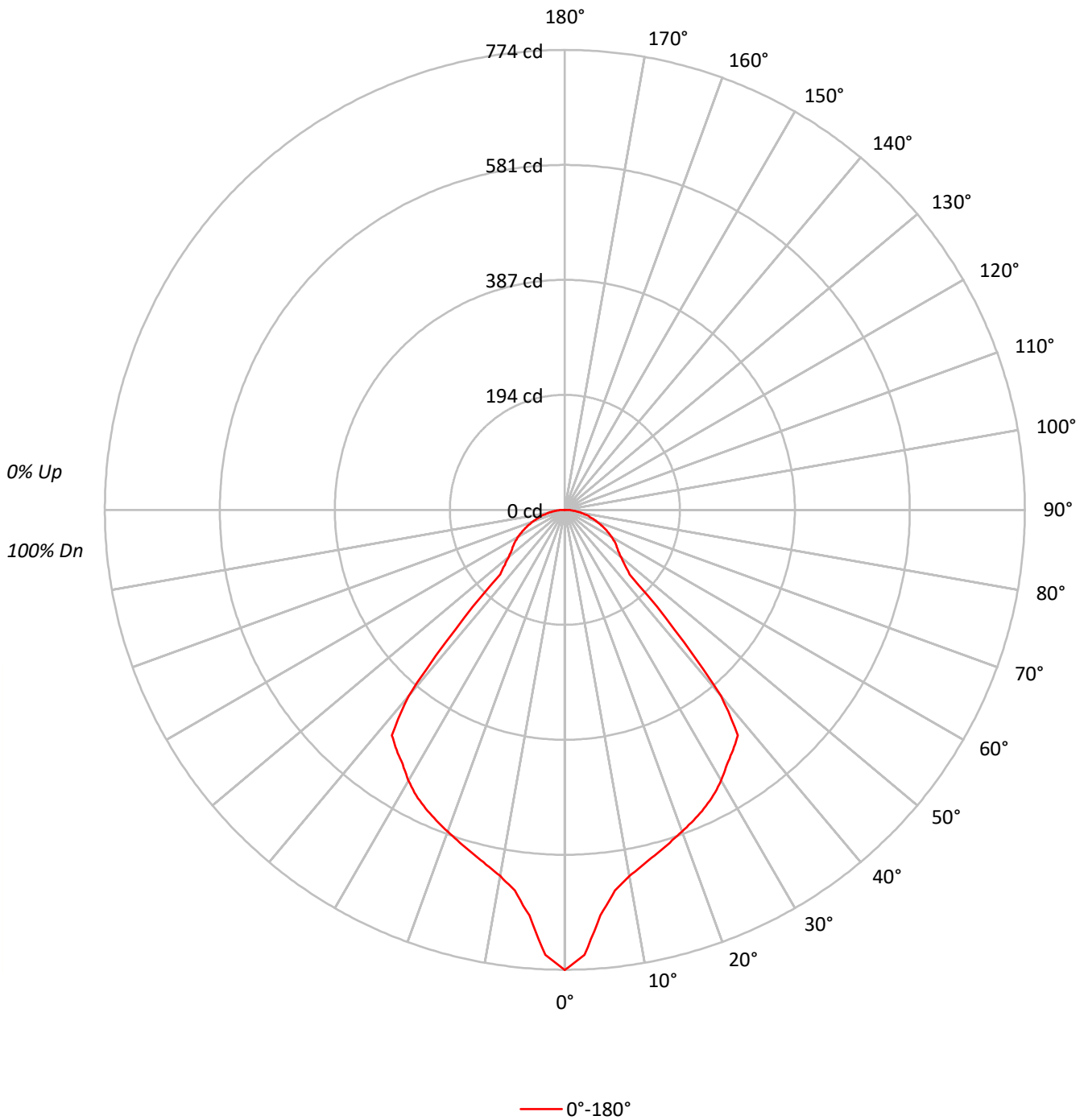
Lumens per Lamp: N/A  
Luminaire Lumens: 1176.4 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.5  
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										
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	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						100														
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88						88														
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77						77														
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68						68														
4	89	79	71	65	87	77	70	65	75	69	64	73	67	63	71	66	63	61						61														
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54						54														
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49						49														
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44						44														
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41						41														
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37						37														
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34						34														

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	5971
5°	5302
10°	4898
15°	4778
20°	4726
25°	4716
30°	4683
35°	4643
40°	4116
45°	1676
50°	1474
55°	1426
60°	1397
65°	1337
70°	1285
75°	1233
80°	1181
85°	1159

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1676 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.8	5.4
10°-20°	169.2	14.4
20°-30°	255.4	21.7
30°-40°	304.6	25.9
40°-50°	157.5	13.4
50°-60°	95.0	8.1
60°-70°	72.8	6.2
70°-80°	43.7	3.7
80°-90°	14.3	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°	488.5	41.5
0°-40°	793.1	67.4
0°-60°	1045.6	88.9
0°-90°	1176.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	774	
5°	685	64
15°	599	169
25°	554	255
35°	493	305
45°	154	158
55°	106	95
65°	73	73
75°	41	44
85°	13	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	774.5
2.5°	749.9
5°	685.1
7.5°	645.8
10°	625.7
12.5°	611.4
15°	598.7
17.5°	587.2
20°	576.1
22.5°	565.9
25°	554.4
27.5°	541.7
30°	526.1
32.5°	507.7
35°	493.4
37.5°	478.2
40°	409.0
42.5°	272.5
45°	153.7
47.5°	136.9
50°	122.9
52.5°	113.1
55°	106.1
57.5°	98.8
60°	90.6
62.5°	82.0
65°	73.3
67.5°	65.2
70°	57.0
72.5°	48.8
75°	41.4
77.5°	33.6
80°	26.6
82.5°	19.7
85°	13.1
87.5°	6.6
90°	0.0

(END OF REPORT)