

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: P600589

Luminaire Tested: 225-90-30K-LL4-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600589  
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: 225-90-30K-LL4-UNV-STD-X-X-WHHR-BR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

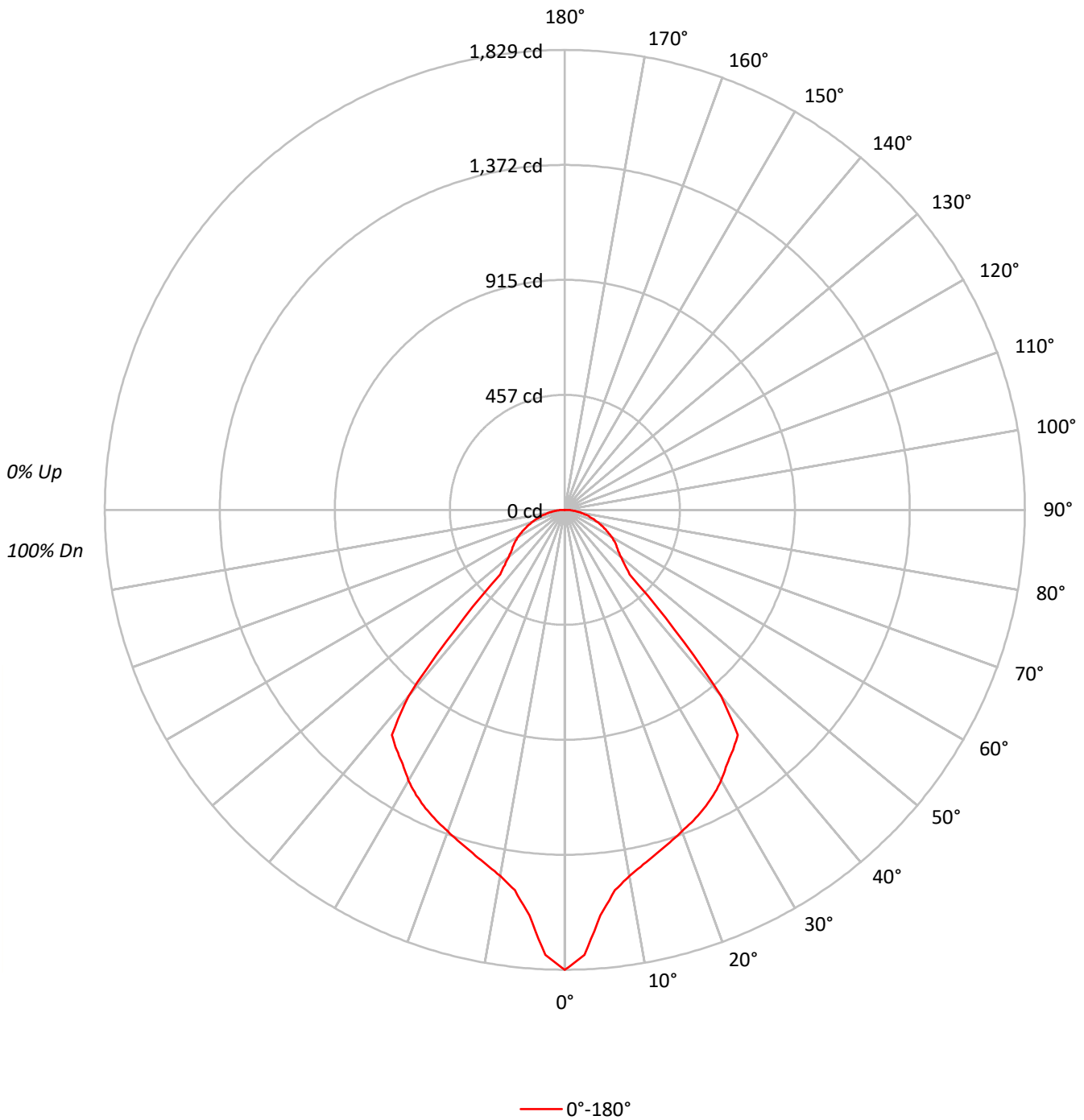
Lumens per Lamp: N/A  
Luminaire Lumens: 2778.8 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.2  
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°	14103
5°	12524
10°	11570
15°	11286
20°	11165
25°	11140
30°	11063
35°	10968
40°	9721
45°	3958
50°	3483
55°	3370
60°	3298
65°	3161
70°	3032
75°	2913
80°	2792
85°	2742

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3958 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	5.4
10°-20°	399.8	14.4
20°-30°	603.4	21.7
30°-40°	719.5	25.9
40°-50°	372.1	13.4
50°-60°	224.4	8.1
60°-70°	172.0	6.2
70°-80°	103.2	3.7
80°-90°	33.9	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°	1153.8	41.5
0°-40°	1873.3	67.4
0°-60°	2469.8	88.9
0°-90°	2778.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1829	
5°	1618	151
15°	1414	400
25°	1310	603
35°	1165	720
45°	363	372
55°	251	224
65°	173	172
75°	98	103
85°	31	34
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1829.4
2.5°	1771.3
5°	1618.4
7.5°	1525.5
10°	1478.0
12.5°	1444.2
15°	1414.1
17.5°	1387.0
20°	1360.9
22.5°	1336.7
25°	1309.6
27.5°	1279.6
30°	1242.8
32.5°	1199.3
35°	1165.4
37.5°	1129.6
40°	966.0
42.5°	643.7
45°	363.0
47.5°	323.3
50°	290.4
52.5°	267.1
55°	250.7
57.5°	233.3
60°	213.9
62.5°	193.6
65°	173.3
67.5°	153.9
70°	134.5
72.5°	115.2
75°	97.8
77.5°	79.4
80°	62.9
82.5°	46.5
85°	31.0
87.5°	15.5
90°	0.0

(END OF REPORT)