

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: P600659

Luminaire Tested: 215-90-27K-LL3-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/6/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 215-90-27K-LL3-UNV-STD-X-X-WHHR-FL-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

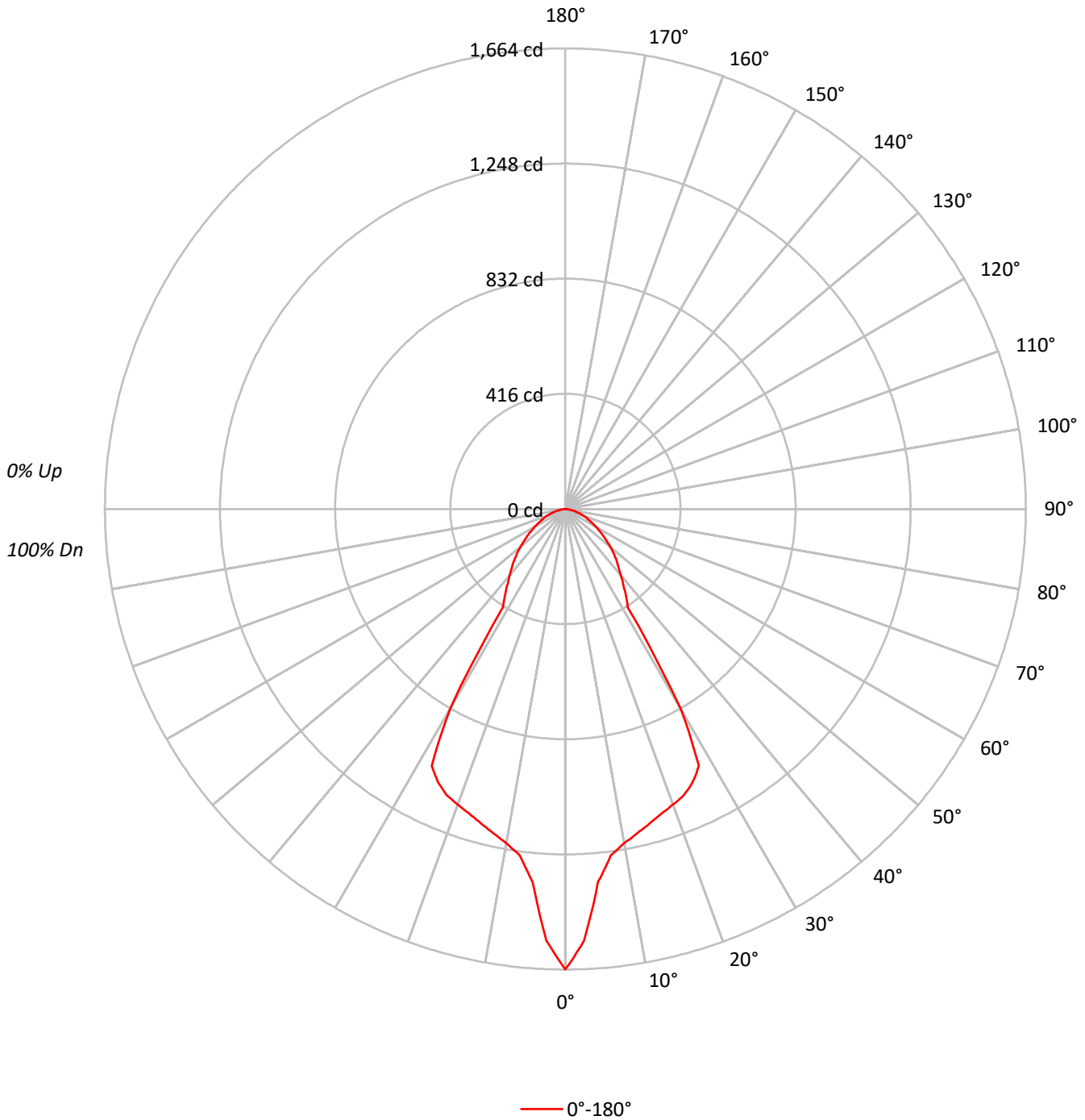
Lumens per Lamp: N/A  
Luminaire Lumens: 1706.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40

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

	0°
0°	22798
5°	18611
10°	17063
15°	16691
20°	16577
25°	16468
30°	13168
35°	6358
40°	5571
45°	5059
50°	4492
55°	3947
60°	3454
65°	3019
70°	2637
75°	2224
80°	1547
85°	550

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5059 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	7.4
10°-20°	332.6	19.5
20°-30°	487.2	28.6
30°-40°	264.8	15.5
40°-50°	200.9	11.8
50°-60°	148.7	8.7
60°-70°	93.4	5.5
70°-80°	44.6	2.6
80°-90°	7.0	0.4
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°	946.5	55.5
0°-40°	1211.3	71.0
0°-60°	1560.9	91.5
0°-90°	1706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1664	
5°	1353	127
15°	1176	333
25°	1089	487
35°	380	265
45°	261	201
55°	165	149
65°	93	93
75°	42	45
85°	4	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1663.5
2.5°	1560.7
5°	1352.8
7.5°	1261.8
10°	1226.1
12.5°	1200.2
15°	1176.4
17.5°	1154.0
20°	1136.6
22.5°	1119.8
25°	1089.0
27.5°	1045.6
30°	832.1
32.5°	419.9
35°	380.0
37.5°	343.6
40°	311.4
42.5°	285.5
45°	261.0
47.5°	235.8
50°	210.7
52.5°	187.6
55°	165.2
57.5°	144.9
60°	126.0
62.5°	109.2
65°	93.1
67.5°	79.8
70°	65.8
72.5°	53.9
75°	42.0
77.5°	30.8
80°	19.6
82.5°	11.2
85°	3.5
87.5°	1.4
90°	0.0

(END OF REPORT)