

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: P600730

Luminaire Tested: 215-90-40K-LL3-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600730  
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: 215-90-40K-LL3-UNV-STD-X-X-WHHR-SR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

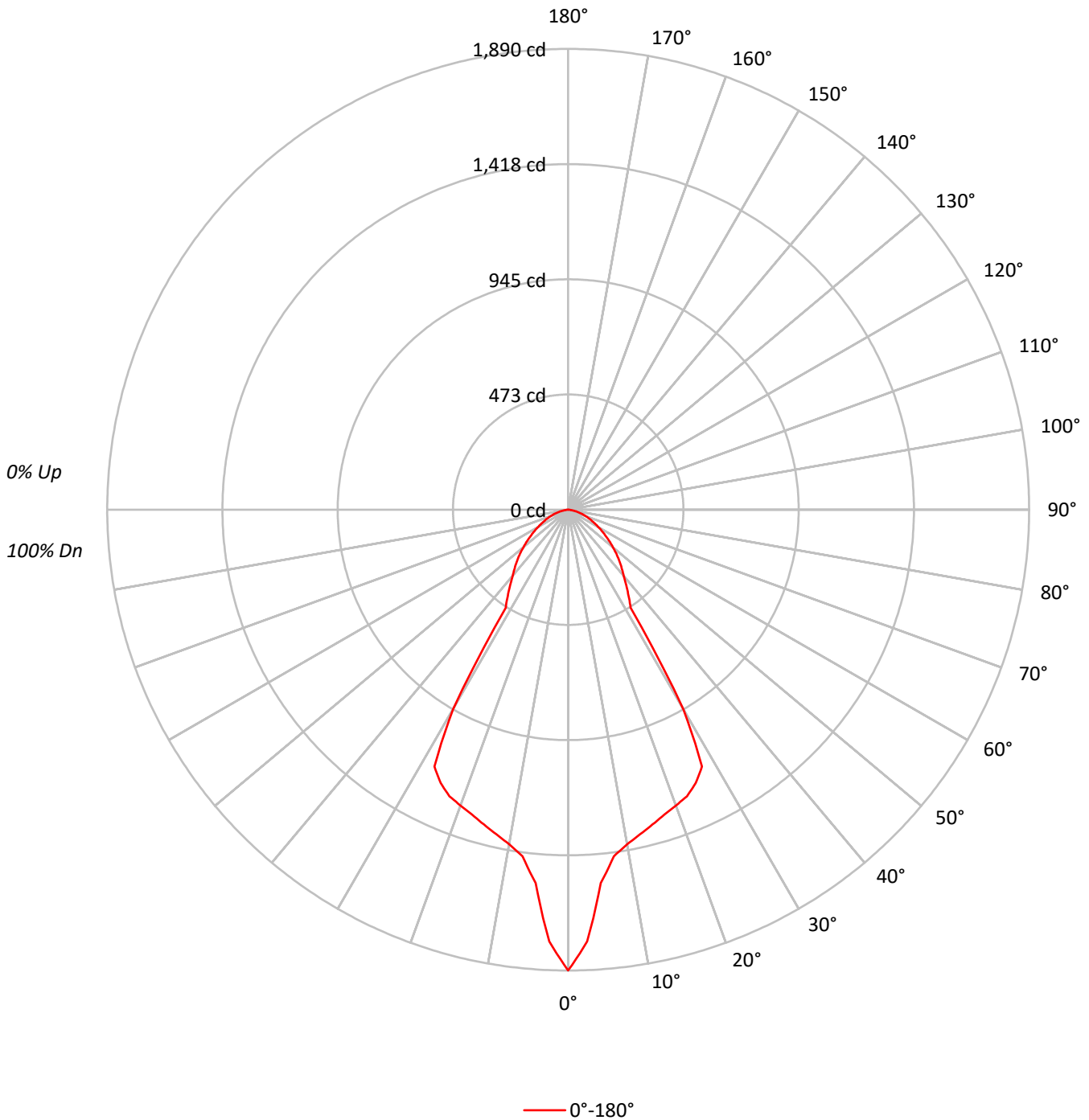
Lumens per Lamp: N/A  
Luminaire Lumens: 1937.9 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

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°	25898
5°	21141
10°	19383
15°	18962
20°	18830
25°	18706
30°	14960
35°	7223
40°	6330
45°	5747
50°	5102
55°	4483
60°	3922
65°	3428
70°	2993
75°	2526
80°	1760
85°	629

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5747 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.9	7.4
10°-20°	377.8	19.5
20°-30°	553.5	28.6
30°-40°	300.8	15.5
40°-50°	228.3	11.8
50°-60°	168.8	8.7
60°-70°	106.1	5.5
70°-80°	50.7	2.6
80°-90°	8.0	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°	1075.2	55.5
0°-40°	1376.0	71.0
0°-60°	1773.1	91.5
0°-90°	1937.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1890	
5°	1537	144
15°	1336	378
25°	1237	553
35°	432	301
45°	296	228
55°	188	169
65°	106	106
75°	48	51
85°	4	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1889.7
2.5°	1772.9
5°	1536.7
7.5°	1433.4
10°	1392.8
12.5°	1363.4
15°	1336.4
17.5°	1311.0
20°	1291.1
22.5°	1272.0
25°	1237.0
27.5°	1187.7
30°	945.3
32.5°	477.0
35°	431.7
37.5°	390.3
40°	353.8
42.5°	324.4
45°	296.5
47.5°	267.9
50°	239.3
52.5°	213.1
55°	187.6
57.5°	164.6
60°	143.1
62.5°	124.0
65°	105.7
67.5°	90.6
70°	74.7
72.5°	61.2
75°	47.7
77.5°	35.0
80°	22.3
82.5°	12.7
85°	4.0
87.5°	1.6
90°	0.0

(END OF REPORT)