

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: P600582

Luminaire Tested: 235-90-30K-LL1-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600582  
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: 235-90-30K-LL1-UNV-STD-X-X-WHHR-SR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

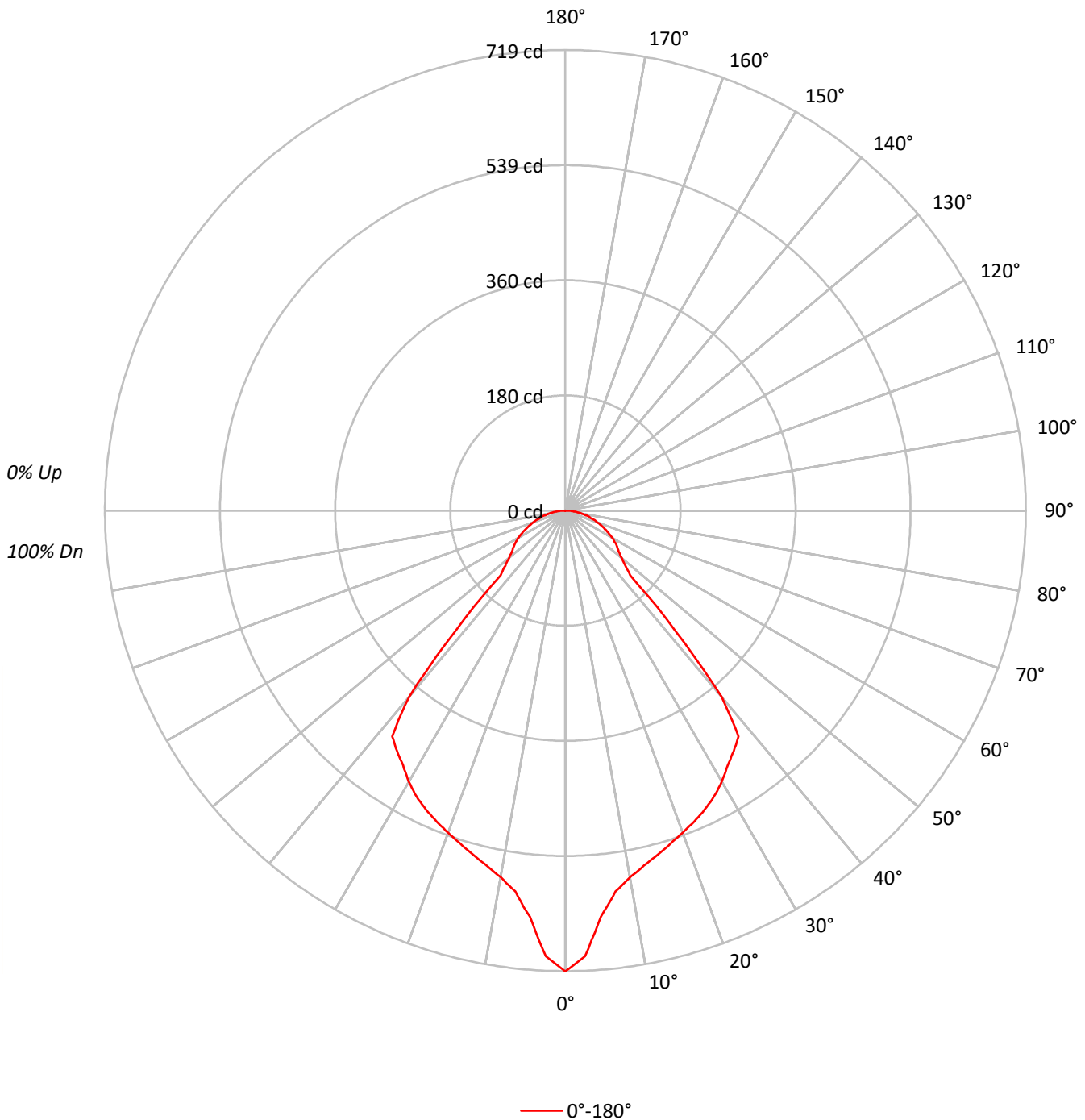
Lumens per Lamp: N/A  
Luminaire Lumens: 1092.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P600582  
CATALOG NUMBER: 235-90-30K-LL1-UNV-STD-X-X-WHHR-SR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P600582

CATALOG NUMBER: 235-90-30K-LL1-UNV-STD-X-X-WHHR-SR-X

**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°	5545
5°	4925
10°	4550
15°	4438
20°	4390
25°	4381
30°	4350
35°	4312
40°	3822
45°	1556
50°	1370
55°	1325
60°	1297
65°	1242
70°	1192
75°	1144
80°	1097
85°	1079

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1556 cd/sqm



TEST NUMBER: P600582

CATALOG NUMBER: 235-90-30K-LL1-UNV-STD-X-X-WHHR-SR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	5.4
10°-20°	157.2	14.4
20°-30°	237.3	21.7
30°-40°	282.9	25.9
40°-50°	146.3	13.4
50°-60°	88.2	8.1
60°-70°	67.6	6.2
70°-80°	40.5	3.7
80°-90°	13.3	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°	453.7	41.5
0°-40°	736.6	67.4
0°-60°	971.2	88.9
0°-90°	1092.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1092.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	719	
5°	636	59
15°	556	157
25°	515	237
35°	458	283
45°	143	146
55°	99	88
65°	68	68
75°	38	41
85°	12	13
90°	0	



TEST NUMBER: P600582

CATALOG NUMBER: 235-90-30K-LL1-UNV-STD-X-X-WHHR-SR-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	719.3
2.5°	696.5
5°	636.4
7.5°	599.8
10°	581.2
12.5°	567.9
15°	556.1
17.5°	545.4
20°	535.1
22.5°	525.6
25°	515.0
27.5°	503.2
30°	488.7
32.5°	471.6
35°	458.2
37.5°	444.2
40°	379.8
42.5°	253.1
45°	142.7
47.5°	127.1
50°	114.2
52.5°	105.0
55°	98.6
57.5°	91.7
60°	84.1
62.5°	76.1
65°	68.1
67.5°	60.5
70°	52.9
72.5°	45.3
75°	38.4
77.5°	31.2
80°	24.7
82.5°	18.3
85°	12.2
87.5°	6.1
90°	0.0

(END OF REPORT)