

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: P600574

Luminaire Tested: 235-90-27K-LL7-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600574  
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: 235-90-27K-LL7-UNV-STD-X-X-WHHR-BR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

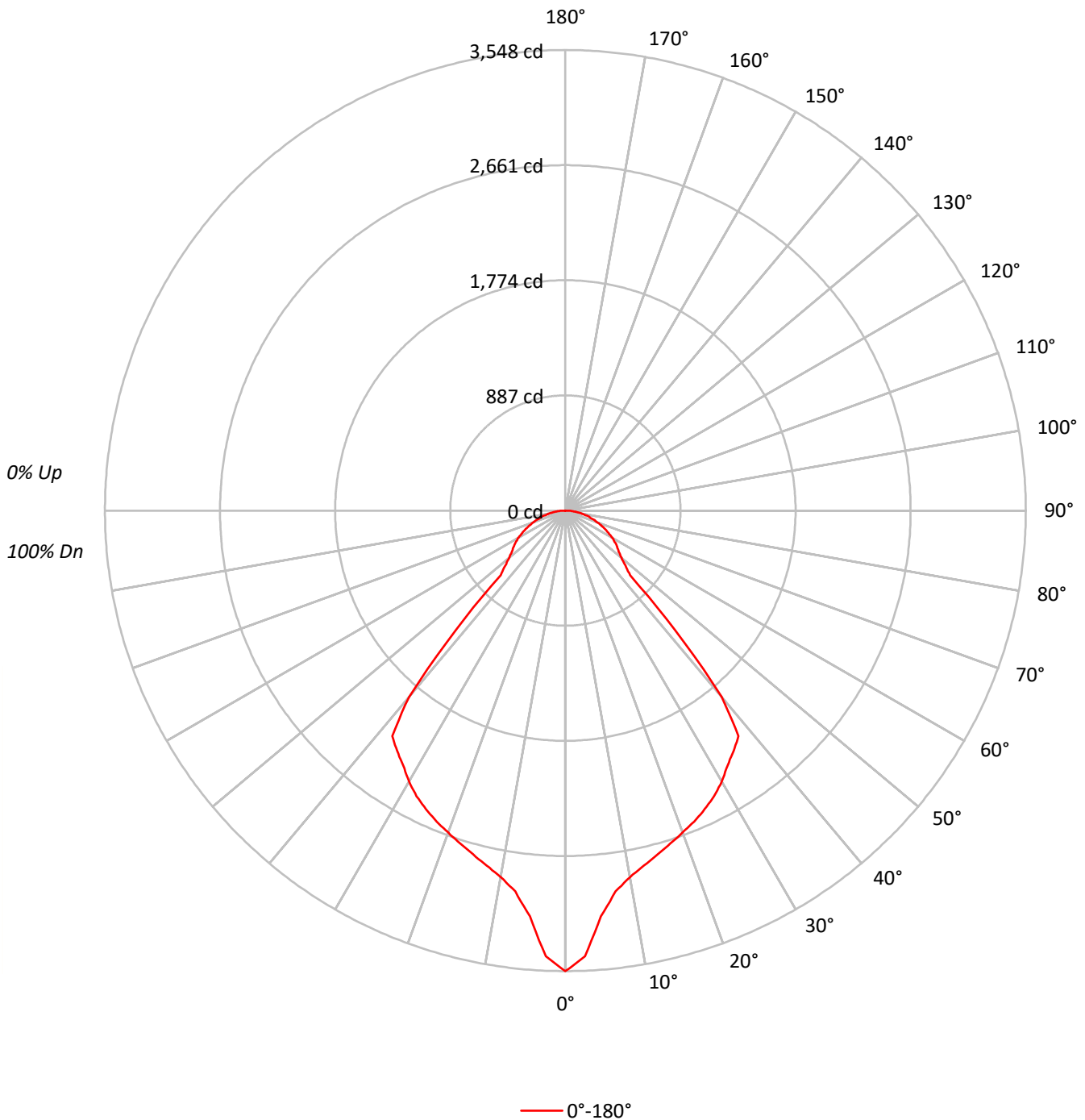
Lumens per Lamp: N/A  
Luminaire Lumens: 5389.1 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.4  
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



TEST NUMBER: P600574  
CATALOG NUMBER: 235-90-27K-LL7-UNV-STD-X-X-WHHR-BR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P600574

CATALOG NUMBER: 235-90-27K-LL7-UNV-STD-X-X-WHHR-BR-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°	27351
5°	24289
10°	22439
15°	21889
20°	21653
25°	21605
30°	21456
35°	21271
40°	18854
45°	7675
50°	6755
55°	6535
60°	6397
65°	6129
70°	5881
75°	5647
80°	5416
85°	5316

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7675 cd/sqm



TEST NUMBER: P600574

CATALOG NUMBER: 235-90-27K-LL7-UNV-STD-X-X-WHHR-BR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.3	5.4
10°-20°	775.3	14.4
20°-30°	1170.2	21.7
30°-40°	1395.4	25.9
40°-50°	721.6	13.4
50°-60°	435.2	8.1
60°-70°	333.5	6.2
70°-80°	200.0	3.7
80°-90°	65.6	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°	2237.7	41.5
0°-40°	3633.2	67.4
0°-60°	4790.0	88.9
0°-90°	5389.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5389.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3548	
5°	3139	292
15°	2743	775
25°	2540	1170
35°	2260	1395
45°	704	722
55°	486	435
65°	336	333
75°	190	200
85°	60	66
90°	0	



TEST NUMBER: P600574

CATALOG NUMBER: 235-90-27K-LL7-UNV-STD-X-X-WHHR-BR-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3547.9
2.5°	3435.3
5°	3138.7
7.5°	2958.5
10°	2866.5
12.5°	2800.8
15°	2742.6
17.5°	2690.0
20°	2639.4
22.5°	2592.4
25°	2539.9
27.5°	2481.7
30°	2410.3
32.5°	2325.9
35°	2260.2
37.5°	2190.7
40°	1873.5
42.5°	1248.3
45°	704.0
47.5°	627.0
50°	563.2
52.5°	518.1
55°	486.2
57.5°	452.4
60°	414.9
62.5°	375.4
65°	336.0
67.5°	298.5
70°	260.9
72.5°	223.4
75°	189.6
77.5°	153.9
80°	122.0
82.5°	90.1
85°	60.1
87.5°	30.0
90°	0.0

(END OF REPORT)