

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: P600561

Luminaire Tested: 235-90-27K-LL2-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600561  
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-LL2-UNV-STD-X-X-WHHR-SR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

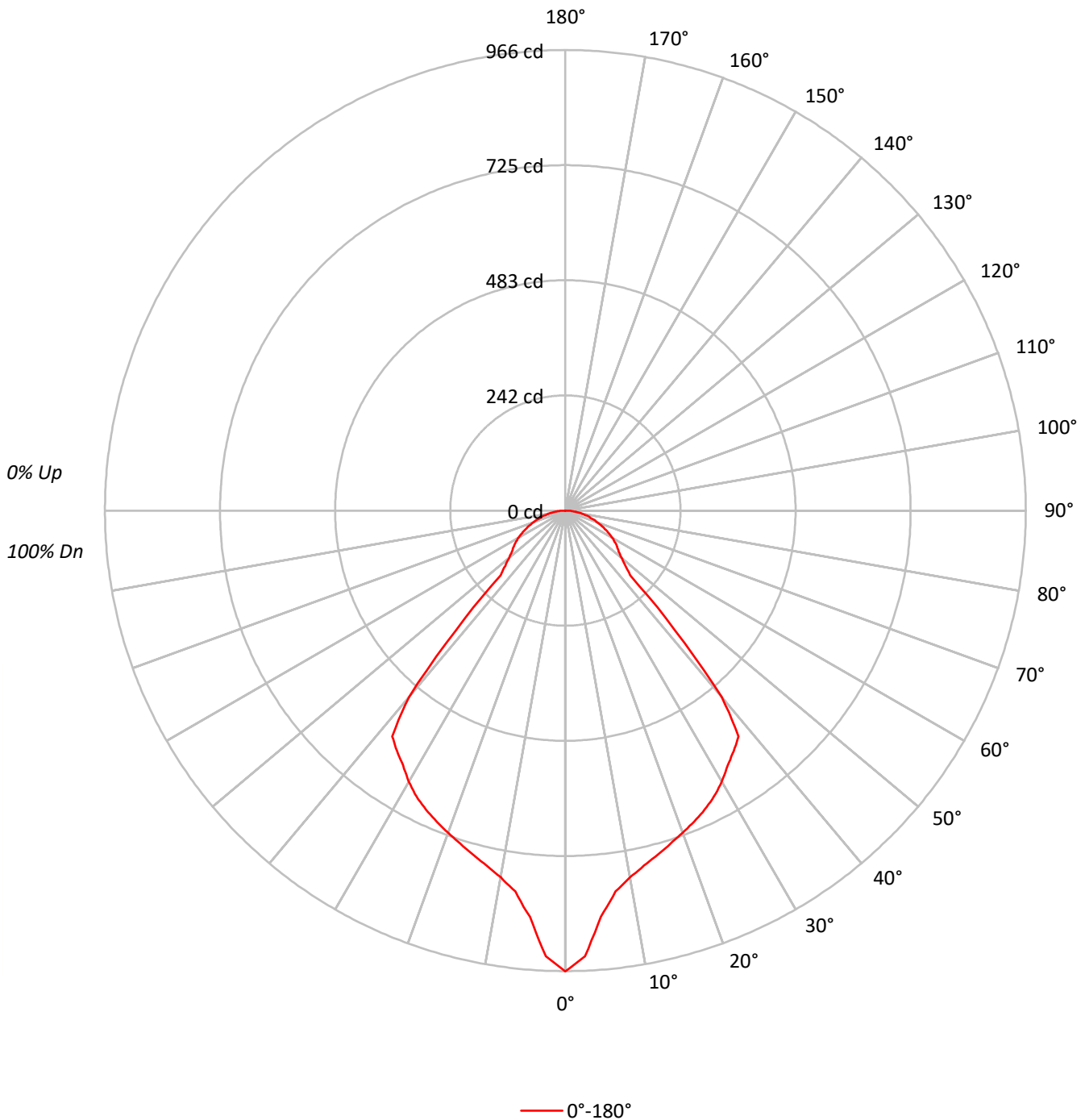
Lumens per Lamp: N/A  
Luminaire Lumens: 1468.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.9  
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: P600561  
CATALOG NUMBER: 235-90-27K-LL2-UNV-STD-X-X-WHHR-SR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P600561

CATALOG NUMBER: 235-90-27K-LL2-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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88			88	
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77	
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68	
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61			61	
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			54	
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49	
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44			44	
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41			41	
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37			37	
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34			34	

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

	0°
0°	7451
5°	6616
10°	6113
15°	5963
20°	5899
25°	5885
30°	5845
35°	5794
40°	5136
45°	2091
50°	1840
55°	1780
60°	1742
65°	1669
70°	1603
75°	1537
80°	1474
85°	1451

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2091 cd/sqm



TEST NUMBER: P600561

CATALOG NUMBER: 235-90-27K-LL2-UNV-STD-X-X-WHHR-SR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	5.4
10°-20°	211.2	14.4
20°-30°	318.8	21.7
30°-40°	380.1	25.9
40°-50°	196.6	13.4
50°-60°	118.5	8.1
60°-70°	90.8	6.2
70°-80°	54.5	3.7
80°-90°	17.9	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°	609.6	41.5
0°-40°	989.7	67.4
0°-60°	1304.8	88.9
0°-90°	1468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	966	
5°	855	80
15°	747	211
25°	692	319
35°	616	380
45°	192	197
55°	132	119
65°	92	91
75°	52	54
85°	16	18
90°	0	



TEST NUMBER: P600561

CATALOG NUMBER: 235-90-27K-LL2-UNV-STD-X-X-WHHR-SR-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	966.5
2.5°	935.8
5°	855.0
7.5°	805.9
10°	780.9
12.5°	763.0
15°	747.1
17.5°	732.8
20°	719.0
22.5°	706.2
25°	691.9
27.5°	676.0
30°	656.6
32.5°	633.6
35°	615.7
37.5°	596.8
40°	510.4
42.5°	340.1
45°	191.8
47.5°	170.8
50°	153.4
52.5°	141.1
55°	132.4
57.5°	123.2
60°	113.0
62.5°	102.3
65°	91.5
67.5°	81.3
70°	71.1
72.5°	60.9
75°	51.6
77.5°	41.9
80°	33.2
82.5°	24.5
85°	16.4
87.5°	8.2
90°	0.0

(END OF REPORT)