

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: P600571

Luminaire Tested: 235-90-27K-LL6-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600571
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-LL6-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

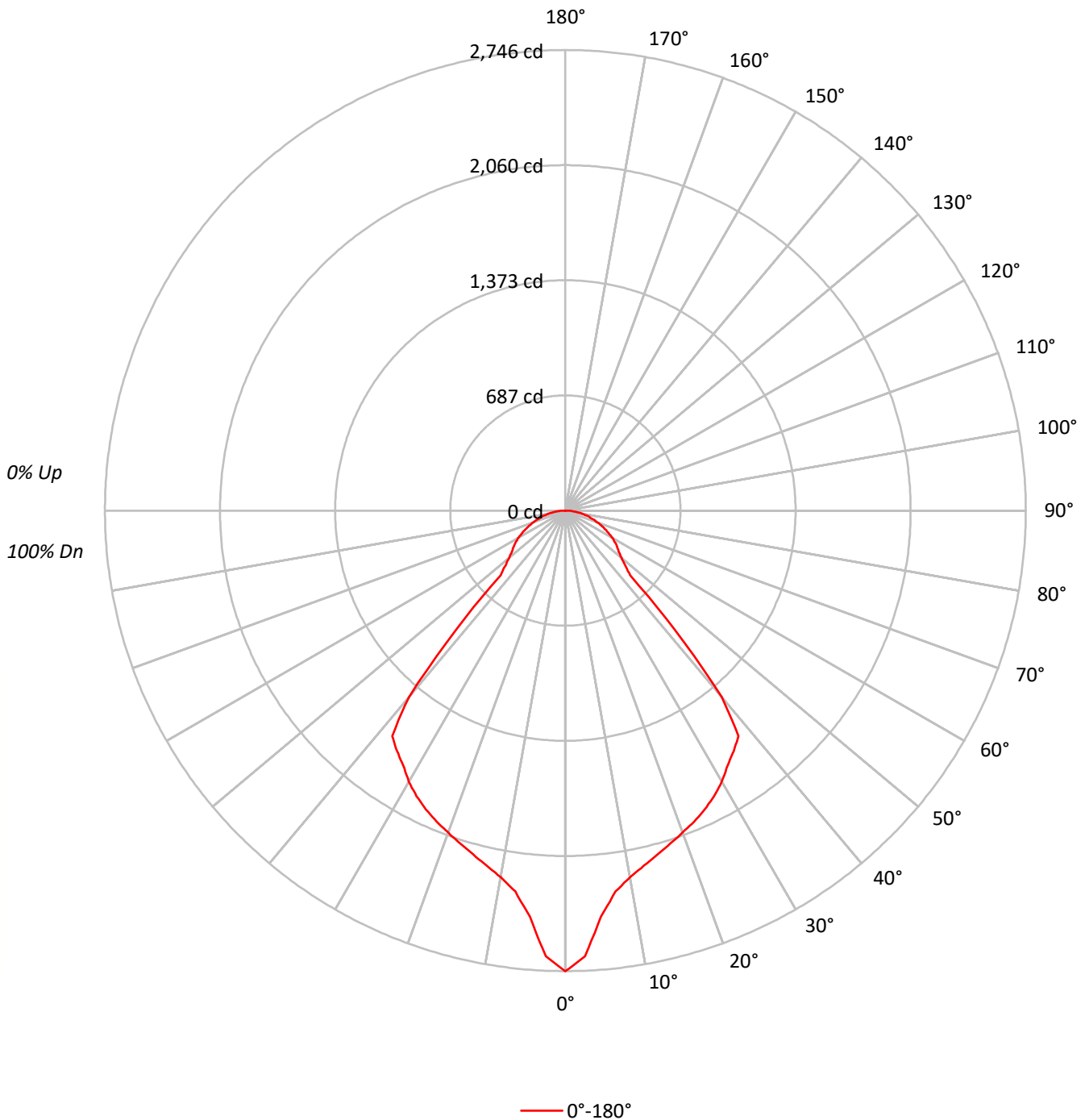
Lumens per Lamp: N/A
Luminaire Lumens: 4171.6 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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	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°	21172
5°	18802
10°	17370
15°	16944
20°	16761
25°	16724
30°	16609
35°	16466
40°	14594
45°	5941
50°	5228
55°	5059
60°	4951
65°	4745
70°	4553
75°	4373
80°	4195
85°	4113

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5941 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	5.4
10°-20°	600.2	14.4
20°-30°	905.8	21.7
30°-40°	1080.2	25.9
40°-50°	558.6	13.4
50°-60°	336.9	8.1
60°-70°	258.1	6.2
70°-80°	154.9	3.7
80°-90°	50.8	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°	1732.2	41.5
0°-40°	2812.4	67.4
0°-60°	3707.8	88.9
0°-90°	4171.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4171.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2746	
5°	2430	226
15°	2123	600
25°	1966	906
35°	1750	1080
45°	545	559
55°	376	337
65°	260	258
75°	147	155
85°	46	51
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2746.4
2.5°	2659.2
5°	2429.6
7.5°	2290.1
10°	2218.9
12.5°	2168.1
15°	2123.0
17.5°	2082.3
20°	2043.1
22.5°	2006.8
25°	1966.1
27.5°	1921.0
30°	1865.8
32.5°	1800.4
35°	1749.6
37.5°	1695.8
40°	1450.2
42.5°	966.3
45°	544.9
47.5°	485.3
50°	435.9
52.5°	401.1
55°	376.4
57.5°	350.2
60°	321.1
62.5°	290.6
65°	260.1
67.5°	231.0
70°	202.0
72.5°	172.9
75°	146.8
77.5°	119.2
80°	94.5
82.5°	69.7
85°	46.5
87.5°	23.2
90°	0.0

(END OF REPORT)