

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: P600588

Luminaire Tested: 235-90-30K-LL3-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600588
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-LL3-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

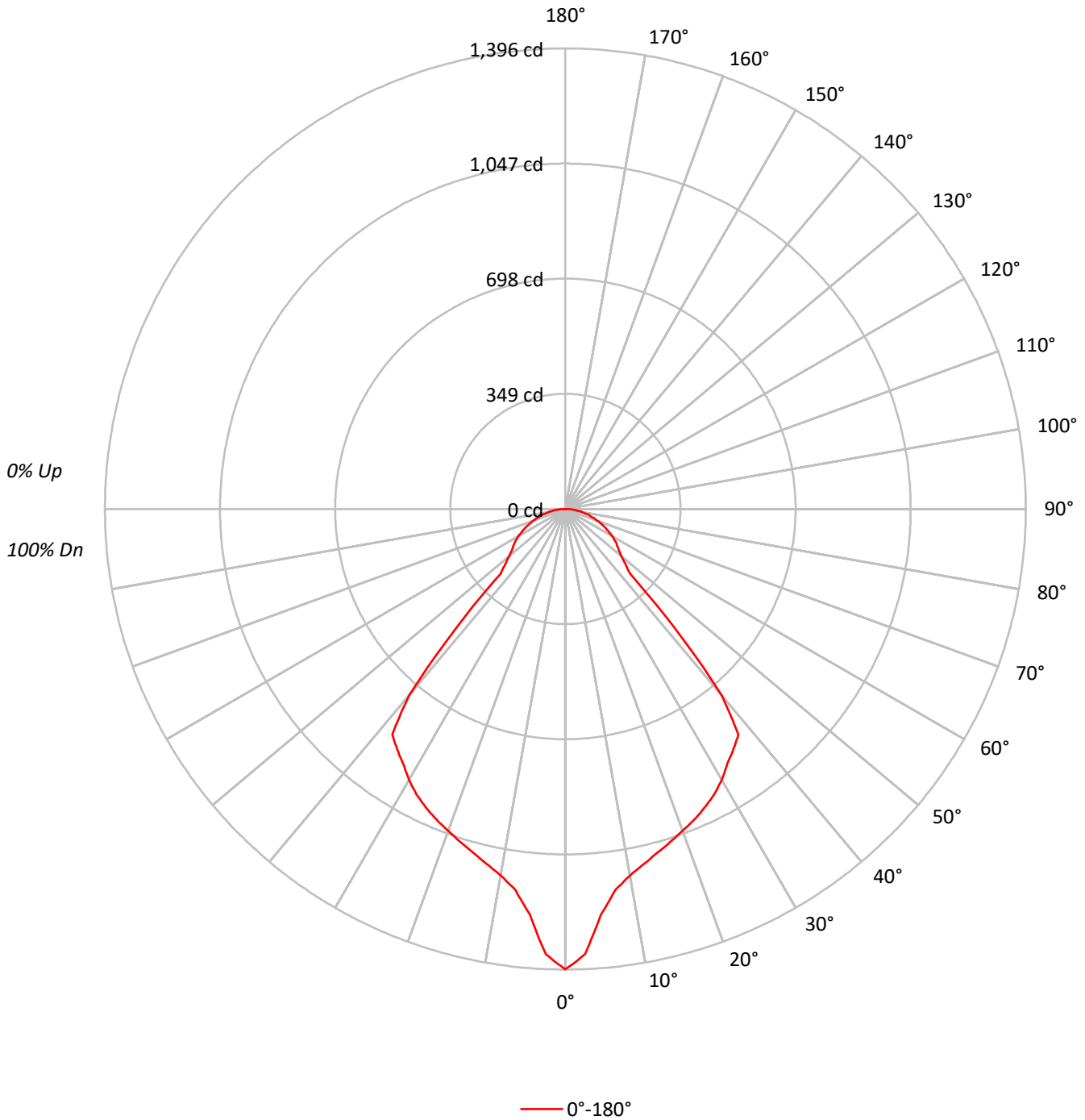
Lumens per Lamp: N/A
Luminaire Lumens: 2119.8 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10759
5°	9554
10°	8827
15°	8610
20°	8517
25°	8498
30°	8440
35°	8366
40°	7416
45°	3019
50°	2657
55°	2570
60°	2516
65°	2412
70°	2313
75°	2222
80°	2131
85°	2087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3019 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	5.4
10°-20°	305.0	14.4
20°-30°	460.3	21.7
30°-40°	548.9	25.9
40°-50°	283.8	13.4
50°-60°	171.2	8.1
60°-70°	131.2	6.2
70°-80°	78.7	3.7
80°-90°	25.8	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°	880.2	41.5
0°-40°	1429.1	67.4
0°-60°	1884.1	88.9
0°-90°	2119.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2119.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1396	
5°	1235	115
15°	1079	305
25°	999	460
35°	889	549
45°	277	284
55°	191	171
65°	132	131
75°	75	79
85°	24	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1395.6
2.5°	1351.3
5°	1234.6
7.5°	1163.7
10°	1127.6
12.5°	1101.7
15°	1078.8
17.5°	1058.1
20°	1038.2
22.5°	1019.7
25°	999.1
27.5°	976.2
30°	948.1
32.5°	914.9
35°	889.0
37.5°	861.7
40°	736.9
42.5°	491.0
45°	276.9
47.5°	246.6
50°	221.5
52.5°	203.8
55°	191.2
57.5°	178.0
60°	163.2
62.5°	147.7
65°	132.2
67.5°	117.4
70°	102.6
72.5°	87.9
75°	74.6
77.5°	60.5
80°	48.0
82.5°	35.4
85°	23.6
87.5°	11.8
90°	0.0

(END OF REPORT)