

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: P600583

Luminaire Tested: 235-90-30K-LL2-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600583
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-LL2-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

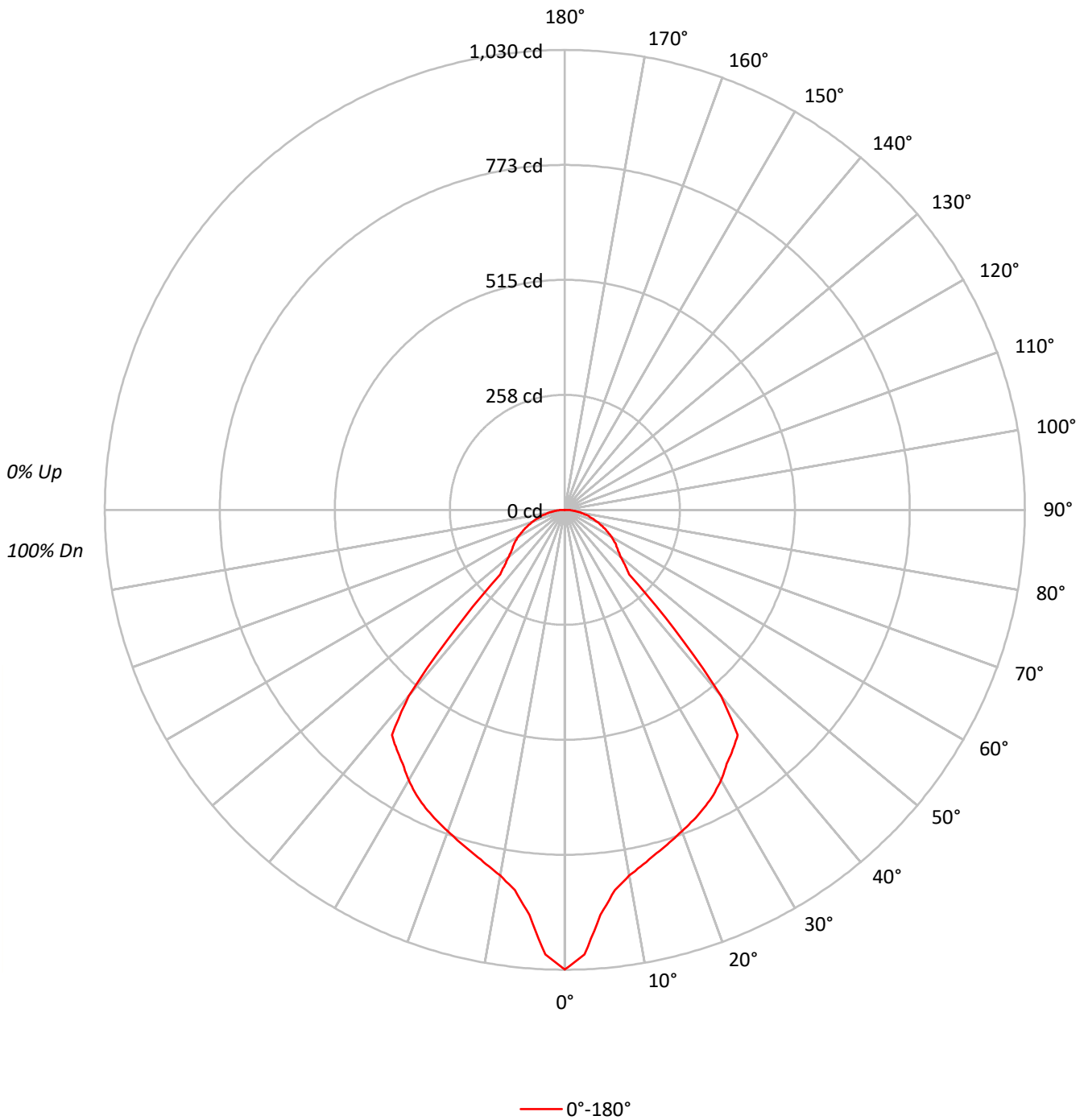
Lumens per Lamp: N/A
Luminaire Lumens: 1563.7 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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



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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°	7937
5°	7048
10°	6511
15°	6351
20°	6283
25°	6269
30°	6226
35°	6172
40°	5471
45°	2227
50°	1960
55°	1896
60°	1856
65°	1779
70°	1706
75°	1638
80°	1572
85°	1539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2227 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	5.4
10°-20°	225.0	14.4
20°-30°	339.5	21.7
30°-40°	404.9	25.9
40°-50°	209.4	13.4
50°-60°	126.3	8.1
60°-70°	96.8	6.2
70°-80°	58.0	3.7
80°-90°	19.0	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°	649.3	41.5
0°-40°	1054.2	67.4
0°-60°	1389.9	88.9
0°-90°	1563.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1563.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1030	
5°	911	85
15°	796	225
25°	737	340
35°	656	405
45°	204	209
55°	141	126
65°	98	97
75°	55	58
85°	17	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1029.5
2.5°	996.8
5°	910.8
7.5°	858.5
10°	831.8
12.5°	812.7
15°	795.8
17.5°	780.6
20°	765.9
22.5°	752.2
25°	737.0
27.5°	720.1
30°	699.4
32.5°	674.9
35°	655.8
37.5°	635.7
40°	543.6
42.5°	362.2
45°	204.3
47.5°	181.9
50°	163.4
52.5°	150.3
55°	141.1
57.5°	131.3
60°	120.4
62.5°	108.9
65°	97.5
67.5°	86.6
70°	75.7
72.5°	64.8
75°	55.0
77.5°	44.7
80°	35.4
82.5°	26.1
85°	17.4
87.5°	8.7
90°	0.0

(END OF REPORT)