

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: P600587

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600587
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-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

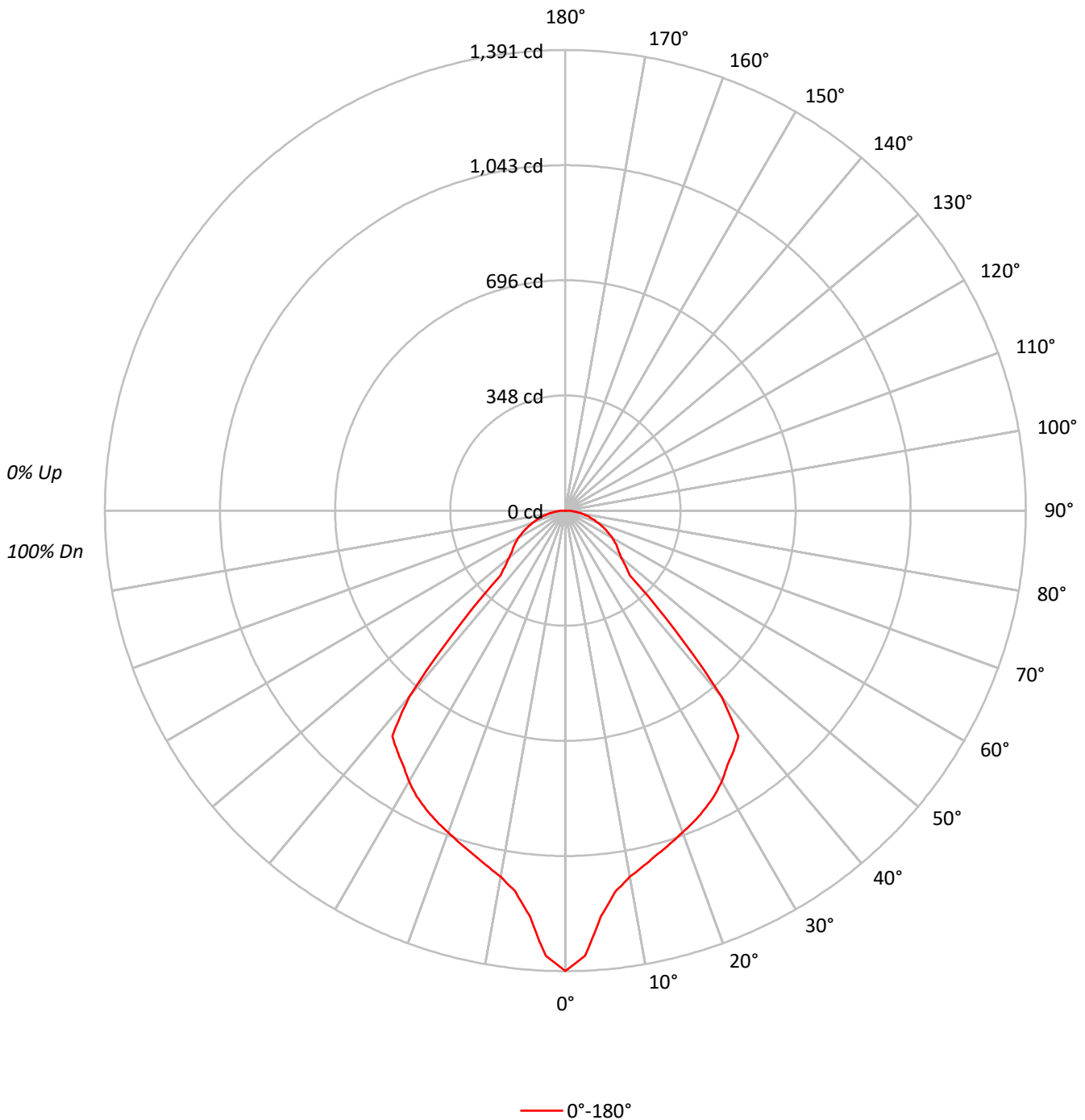
Lumens per Lamp: N/A
Luminaire Lumens: 2112.2 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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										
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	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°	10720
5°	9520
10°	8795
15°	8579
20°	8487
25°	8468
30°	8409
35°	8337
40°	7390
45°	3008
50°	2647
55°	2562
60°	2507
65°	2402
70°	2306
75°	2213
80°	2122
85°	2079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3008 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	5.4
10°-20°	303.9	14.4
20°-30°	458.6	21.7
30°-40°	546.9	25.9
40°-50°	282.8	13.4
50°-60°	170.6	8.1
60°-70°	130.7	6.2
70°-80°	78.4	3.7
80°-90°	25.7	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°	877.1	41.5
0°-40°	1424.0	67.4
0°-60°	1877.4	88.9
0°-90°	2112.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2112.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1391	
5°	1230	115
15°	1075	304
25°	996	459
35°	886	547
45°	276	283
55°	191	171
65°	132	131
75°	74	78
85°	24	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1390.6
2.5°	1346.4
5°	1230.2
7.5°	1159.6
10°	1123.5
12.5°	1097.7
15°	1074.9
17.5°	1054.3
20°	1034.5
22.5°	1016.1
25°	995.5
27.5°	972.7
30°	944.7
32.5°	911.6
35°	885.9
37.5°	858.6
40°	734.3
42.5°	489.3
45°	275.9
47.5°	245.7
50°	220.7
52.5°	203.1
55°	190.6
57.5°	177.3
60°	162.6
62.5°	147.2
65°	131.7
67.5°	117.0
70°	102.3
72.5°	87.6
75°	74.3
77.5°	60.3
80°	47.8
82.5°	35.3
85°	23.5
87.5°	11.8
90°	0.0

(END OF REPORT)