

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: P600602

Luminaire Tested: 235-90-30K-LL8-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600602
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-LL8-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

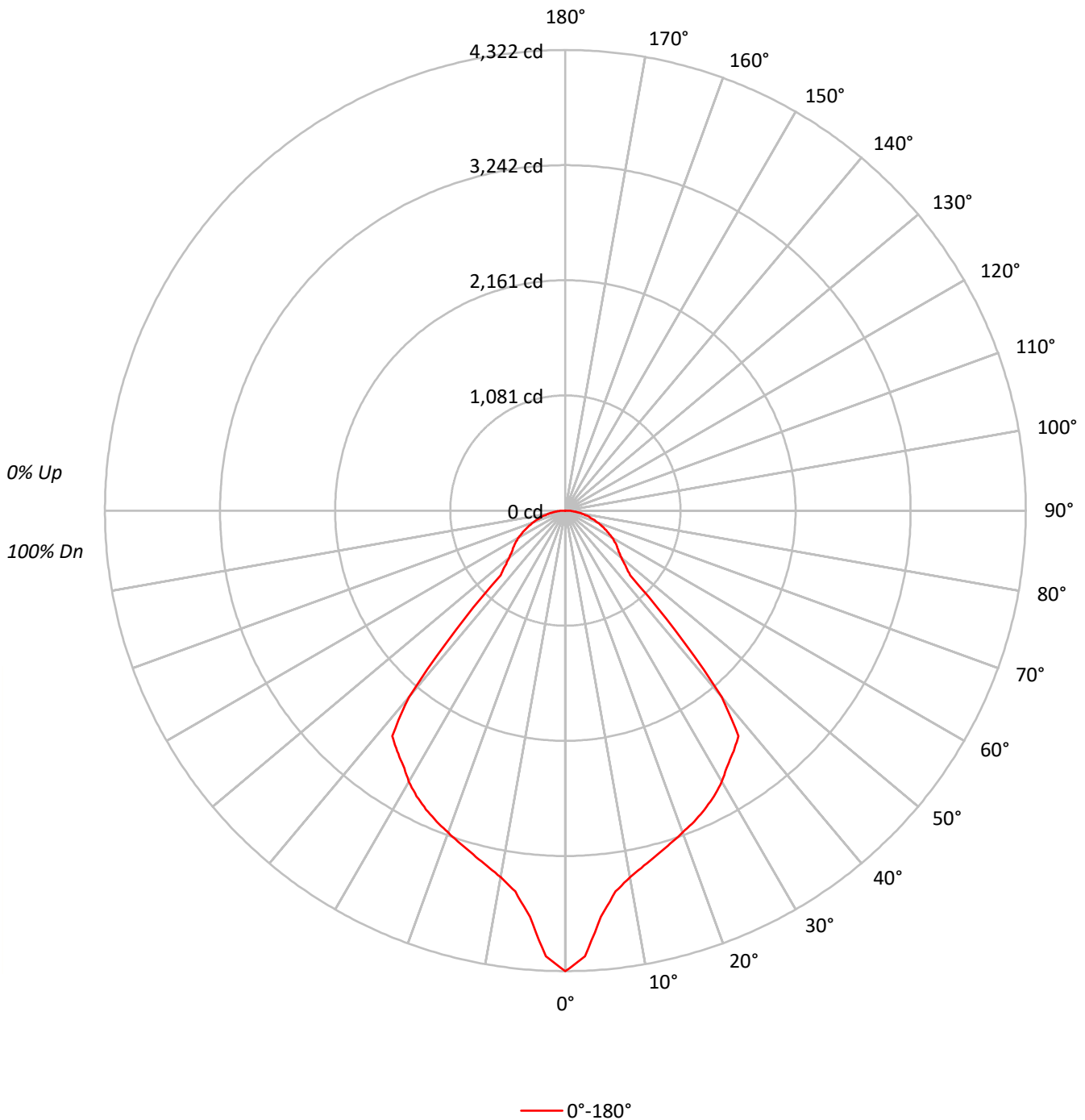
Lumens per Lamp: N/A
Luminaire Lumens: 6565.4 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.2
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°	33321
5°	29591
10°	27337
15°	26666
20°	26379
25°	26320
30°	26139
35°	25913
40°	22969
45°	9350
50°	8229
55°	7961
60°	7792
65°	7468
70°	7165
75°	6881
80°	6602
85°	6475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.0	5.4
10°-20°	944.5	14.4
20°-30°	1425.6	21.7
30°-40°	1700.0	25.9
40°-50°	879.1	13.4
50°-60°	530.2	8.1
60°-70°	406.3	6.2
70°-80°	243.7	3.7
80°-90°	80.0	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°	2726.2	41.5
0°-40°	4426.2	67.4
0°-60°	5835.4	88.9
0°-90°	6565.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6565.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4322	
5°	3824	356
15°	3341	945
25°	3094	1426
35°	2754	1700
45°	858	879
55°	592	530
65°	409	406
75°	231	244
85°	73	80
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4322.3
2.5°	4185.1
5°	3823.8
7.5°	3604.2
10°	3492.2
12.5°	3412.1
15°	3341.2
17.5°	3277.2
20°	3215.4
22.5°	3158.3
25°	3094.2
27.5°	3023.3
30°	2936.4
32.5°	2833.5
35°	2753.5
37.5°	2668.9
40°	2282.4
42.5°	1520.8
45°	857.6
47.5°	763.8
50°	686.1
52.5°	631.2
55°	592.3
57.5°	551.2
60°	505.4
62.5°	457.4
65°	409.4
67.5°	363.6
70°	317.9
72.5°	272.1
75°	231.0
77.5°	187.5
80°	148.7
82.5°	109.8
85°	73.2
87.5°	36.6
90°	0.0

(END OF REPORT)