

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: P600603

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600603
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-SR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

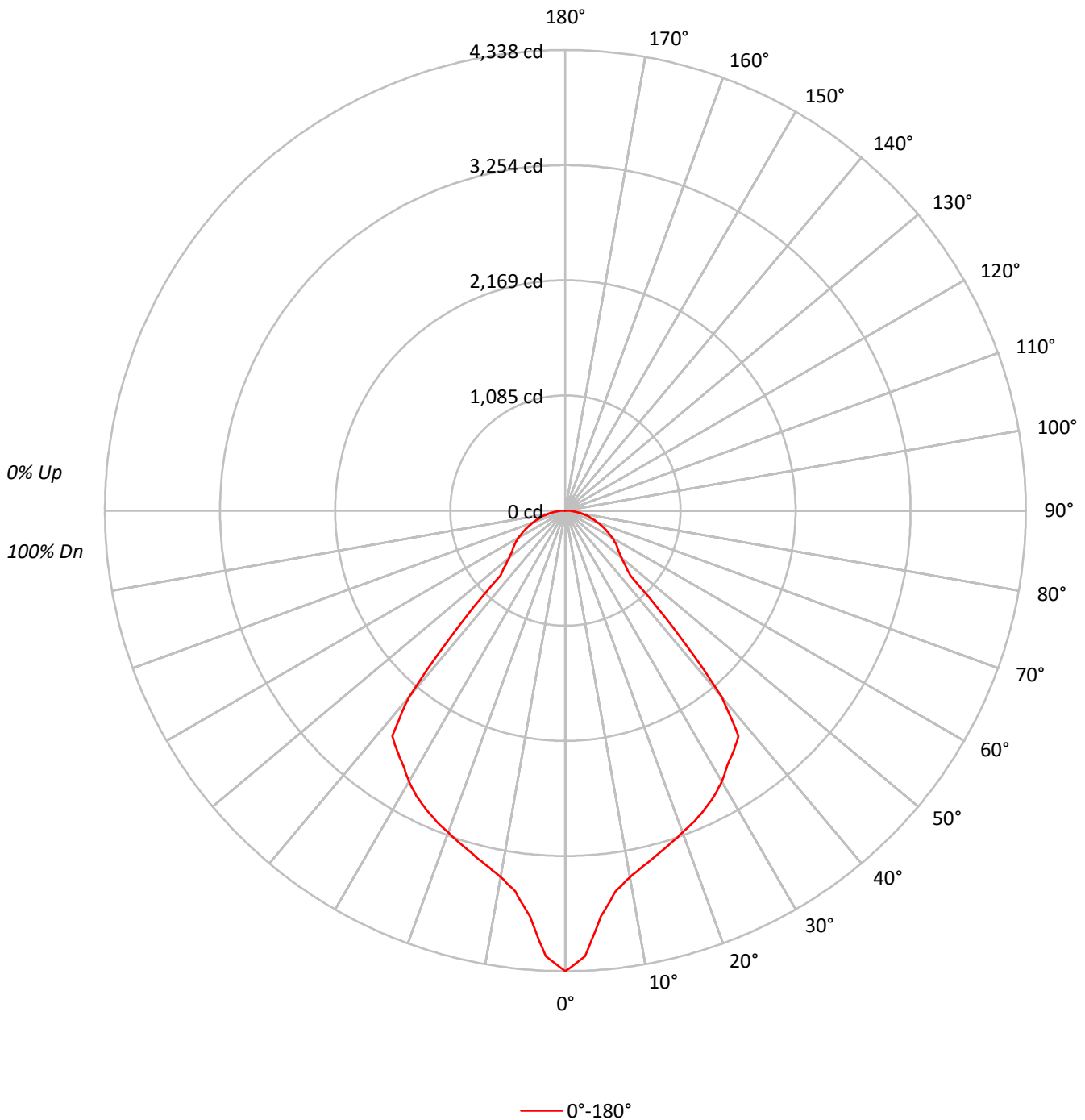
Lumens per Lamp: N/A
Luminaire Lumens: 6589.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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°	33441
5°	29698
10°	27436
15°	26763
20°	26474
25°	26415
30°	26233
35°	26007
40°	23052
45°	9384
50°	8259
55°	7990
60°	7820
65°	7494
70°	7190
75°	6904
80°	6624
85°	6492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	5.4
10°-20°	948.0	14.4
20°-30°	1430.7	21.7
30°-40°	1706.1	25.9
40°-50°	882.3	13.4
50°-60°	532.1	8.1
60°-70°	407.7	6.2
70°-80°	244.6	3.7
80°-90°	80.2	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°	2736.0	41.5
0°-40°	4442.1	67.4
0°-60°	5856.5	88.9
0°-90°	6589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6589.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4338	
5°	3838	357
15°	3353	948
25°	3105	1431
35°	2763	1706
45°	861	882
55°	594	532
65°	411	408
75°	232	245
85°	73	80
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4337.9
2.5°	4200.2
5°	3837.6
7.5°	3617.2
10°	3504.8
12.5°	3424.4
15°	3353.3
17.5°	3289.0
20°	3227.0
22.5°	3169.7
25°	3105.4
27.5°	3034.2
30°	2947.0
32.5°	2843.7
35°	2763.4
37.5°	2678.5
40°	2290.6
42.5°	1526.3
45°	860.7
47.5°	766.6
50°	688.6
52.5°	633.5
55°	594.5
57.5°	553.1
60°	507.2
62.5°	459.0
65°	410.8
67.5°	364.9
70°	319.0
72.5°	273.1
75°	231.8
77.5°	188.2
80°	149.2
82.5°	110.2
85°	73.4
87.5°	36.7
90°	0.0

(END OF REPORT)