

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: P600601

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600601
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-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

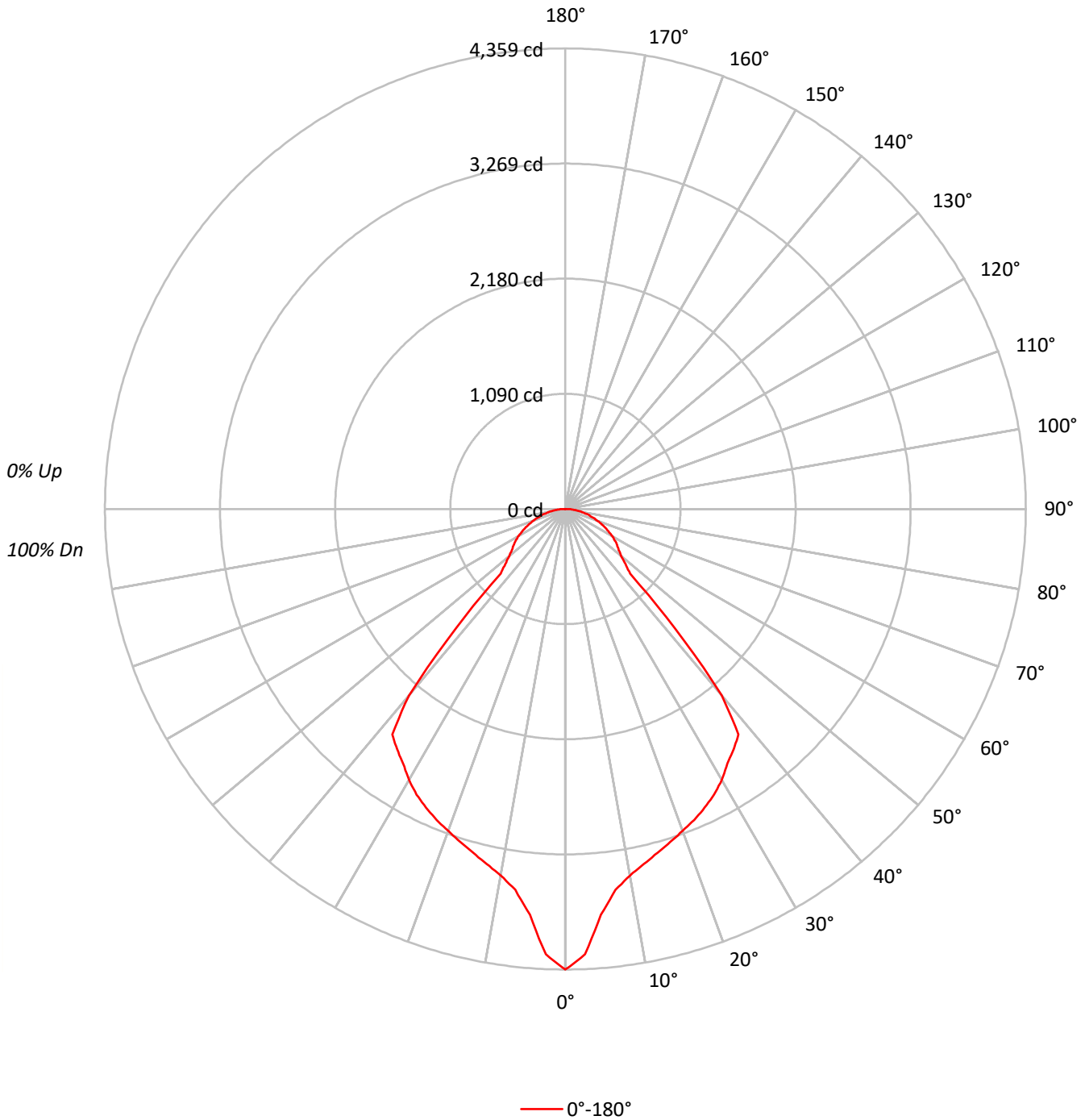
Lumens per Lamp: N/A
Luminaire Lumens: 6620.5 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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									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	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													100															
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88													88															
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77													77															
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68													68															
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61													61															
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54													54															
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49													49															
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44													44															
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41													41															
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37													37															
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34													34															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33601
5°	29838
10°	27566
15°	26890
20°	26600
25°	26541
30°	26359
35°	26131
40°	23161
45°	9428
50°	8297
55°	8028
60°	7859
65°	7530
70°	7226
75°	6937
80°	6655
85°	6528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	5.4
10°-20°	952.5	14.4
20°-30°	1437.5	21.7
30°-40°	1714.3	25.9
40°-50°	886.5	13.4
50°-60°	534.6	8.1
60°-70°	409.7	6.2
70°-80°	245.7	3.7
80°-90°	80.6	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°	2749.0	41.5
0°-40°	4463.3	67.4
0°-60°	5884.4	88.9
0°-90°	6620.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6620.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4359	
5°	3856	359
15°	3369	952
25°	3120	1438
35°	2777	1714
45°	865	886
55°	597	535
65°	413	410
75°	233	246
85°	74	81
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4358.6
2.5°	4220.2
5°	3855.8
7.5°	3634.5
10°	3521.5
12.5°	3440.7
15°	3369.2
17.5°	3304.7
20°	3242.4
22.5°	3184.8
25°	3120.2
27.5°	3048.7
30°	2961.1
32.5°	2857.3
35°	2776.6
37.5°	2691.2
40°	2301.5
42.5°	1533.6
45°	864.8
47.5°	770.2
50°	691.8
52.5°	636.5
55°	597.3
57.5°	555.8
60°	509.7
62.5°	461.2
65°	412.8
67.5°	366.7
70°	320.6
72.5°	274.4
75°	232.9
77.5°	189.1
80°	149.9
82.5°	110.7
85°	73.8
87.5°	36.9
90°	0.0

(END OF REPORT)