

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: P600626

Luminaire Tested: 235-90-35K-LL8-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600626
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: 235-90-35K-LL8-UNV-STD-X-X-WHHR-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

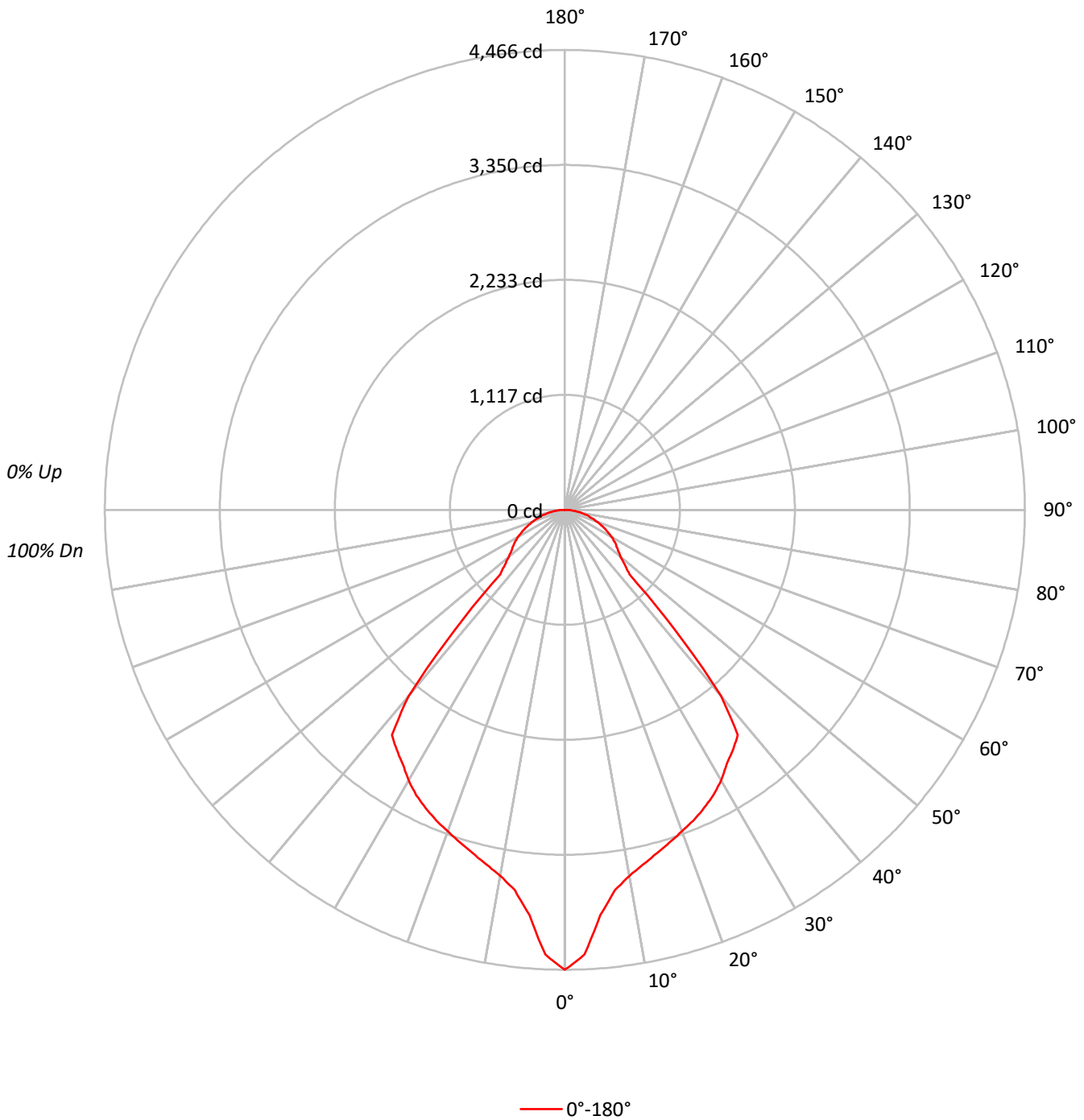
Lumens per Lamp: N/A
Luminaire Lumens: 6782.9 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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°	34425
5°	30571
10°	28243
15°	27550
20°	27253
25°	27192
30°	27005
35°	26772
40°	23730
45°	9659
50°	8501
55°	8224
60°	8051
65°	7714
70°	7402
75°	7107
80°	6819
85°	6687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9659 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	5.4
10°-20°	975.8	14.4
20°-30°	1472.8	21.7
30°-40°	1756.3	25.9
40°-50°	908.2	13.4
50°-60°	547.7	8.1
60°-70°	419.7	6.2
70°-80°	251.8	3.7
80°-90°	82.6	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°	2816.5	41.5
0°-40°	4572.8	67.4
0°-60°	6028.8	88.9
0°-90°	6782.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6782.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4466	
5°	3950	368
15°	3452	976
25°	3197	1473
35°	2845	1756
45°	886	908
55°	612	548
65°	423	420
75°	239	252
85°	76	83
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4465.5
2.5°	4323.8
5°	3950.5
7.5°	3723.6
10°	3607.9
12.5°	3525.2
15°	3451.9
17.5°	3385.8
20°	3322.0
22.5°	3262.9
25°	3196.8
27.5°	3123.5
30°	3033.7
32.5°	2927.4
35°	2844.7
37.5°	2757.3
40°	2358.0
42.5°	1571.2
45°	886.0
47.5°	789.1
50°	708.8
52.5°	652.1
55°	611.9
57.5°	569.4
60°	522.2
62.5°	472.5
65°	422.9
67.5°	375.7
70°	328.4
72.5°	281.2
75°	238.6
77.5°	193.7
80°	153.6
82.5°	113.4
85°	75.6
87.5°	37.8
90°	0.0

(END OF REPORT)