

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: P600610

Luminaire Tested: 235-90-35K-LL3-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600610
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-LL3-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

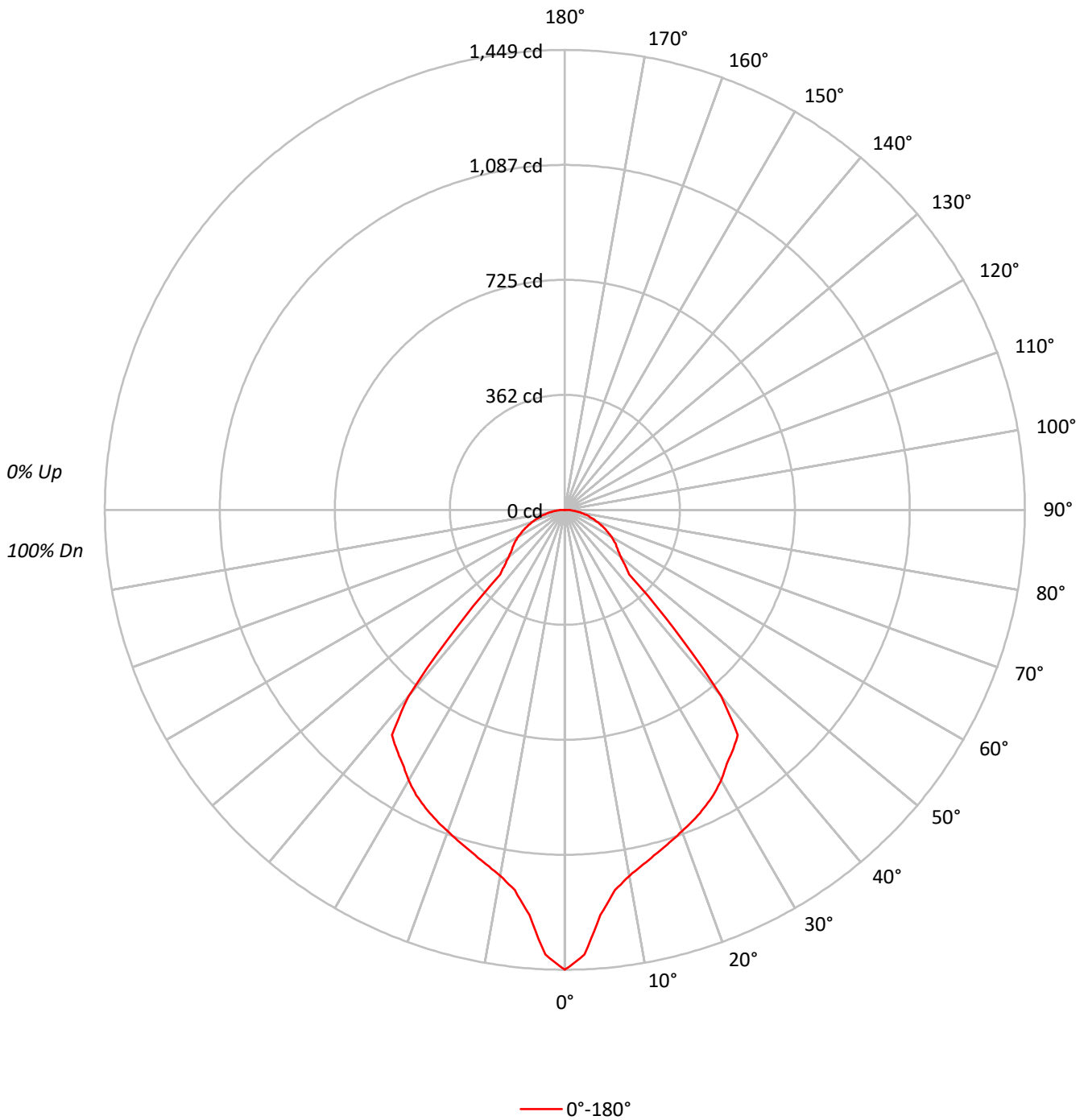
Lumens per Lamp: N/A
Luminaire Lumens: 2200.5 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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				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°	11168
5°	9918
10°	9163
15°	8938
20°	8841
25°	8822
30°	8761
35°	8686
40°	7699
45°	3133
50°	2758
55°	2668
60°	2612
65°	2503
70°	2401
75°	2305
80°	2211
85°	2167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3133 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	5.4
10°-20°	316.6	14.4
20°-30°	477.8	21.7
30°-40°	569.8	25.9
40°-50°	294.6	13.4
50°-60°	177.7	8.1
60°-70°	136.2	6.2
70°-80°	81.7	3.7
80°-90°	26.8	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°	913.7	41.5
0°-40°	1483.5	67.4
0°-60°	1955.9	88.9
0°-90°	2200.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1449	
5°	1282	119
15°	1120	317
25°	1037	478
35°	923	570
45°	287	295
55°	198	178
65°	137	136
75°	77	82
85°	24	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1448.7
2.5°	1402.7
5°	1281.6
7.5°	1208.0
10°	1170.5
12.5°	1143.6
15°	1119.9
17.5°	1098.4
20°	1077.7
22.5°	1058.6
25°	1037.1
27.5°	1013.3
30°	984.2
32.5°	949.7
35°	922.9
37.5°	894.5
40°	765.0
42.5°	509.7
45°	287.4
47.5°	256.0
50°	230.0
52.5°	211.6
55°	198.5
57.5°	184.7
60°	169.4
62.5°	153.3
65°	137.2
67.5°	121.9
70°	106.5
72.5°	91.2
75°	77.4
77.5°	62.9
80°	49.8
82.5°	36.8
85°	24.5
87.5°	12.3
90°	0.0

(END OF REPORT)