

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: P600604

Luminaire Tested: 235-90-35K-LL1-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600604
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-LL1-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

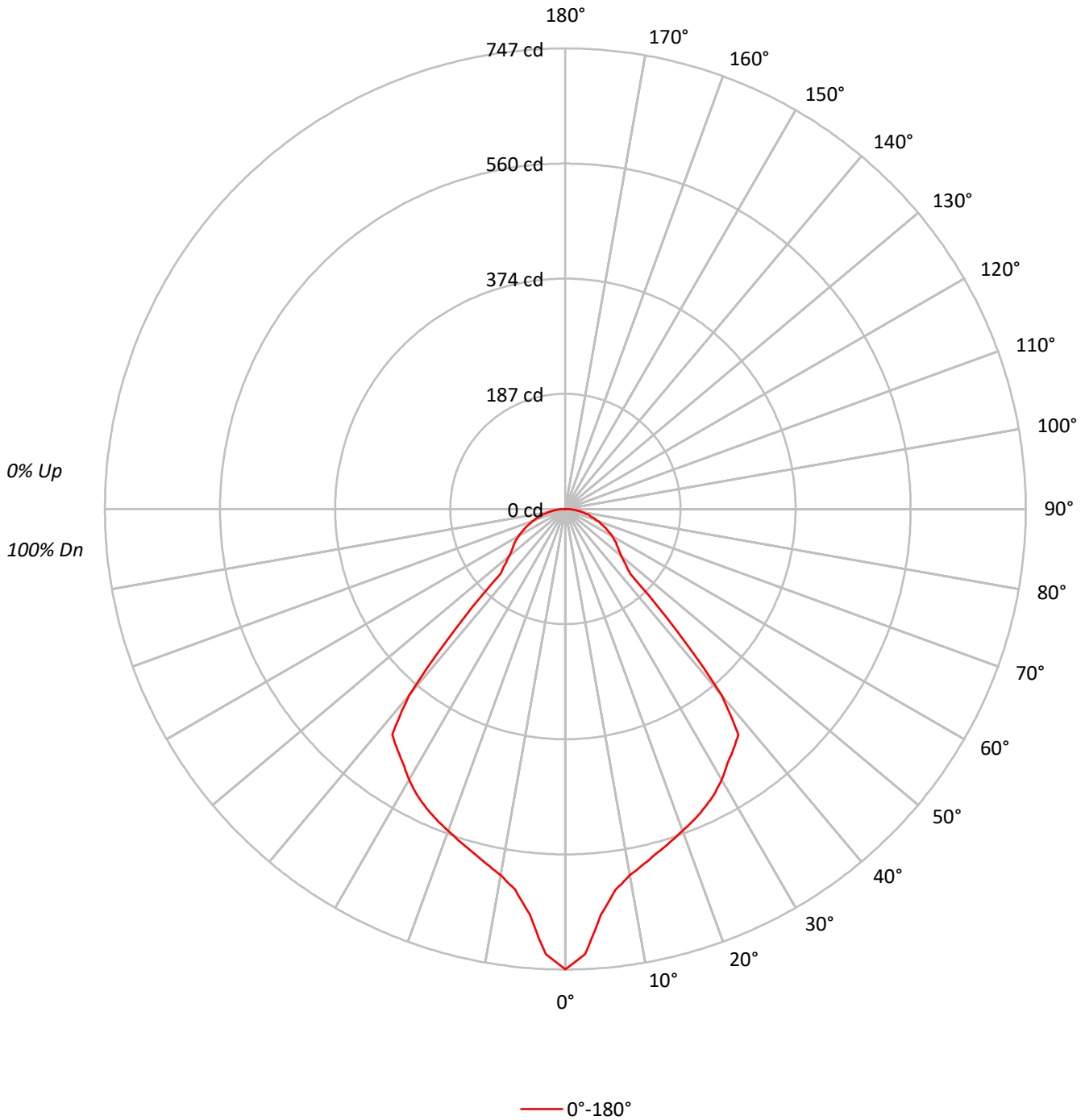
Lumens per Lamp: N/A
Luminaire Lumens: 1134.2 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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										
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	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°	5756
5°	5112
10°	4723
15°	4607
20°	4557
25°	4547
30°	4516
35°	4477
40°	3968
45°	1616
50°	1421
55°	1375
60°	1346
65°	1290
70°	1237
75°	1188
80°	1141
85°	1114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1616 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	5.4
10°-20°	163.2	14.4
20°-30°	246.3	21.7
30°-40°	293.7	25.9
40°-50°	151.9	13.4
50°-60°	91.6	8.1
60°-70°	70.2	6.2
70°-80°	42.1	3.7
80°-90°	13.8	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°	471.0	41.5
0°-40°	764.7	67.4
0°-60°	1008.1	88.9
0°-90°	1134.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	747	
5°	661	62
15°	577	163
25°	535	246
35°	476	294
45°	148	152
55°	102	92
65°	71	70
75°	40	42
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	746.7
2.5°	723.0
5°	660.6
7.5°	622.7
10°	603.3
12.5°	589.5
15°	577.2
17.5°	566.2
20°	555.5
22.5°	545.6
25°	534.6
27.5°	522.3
30°	507.3
32.5°	489.5
35°	475.7
37.5°	461.1
40°	394.3
42.5°	262.7
45°	148.2
47.5°	132.0
50°	118.5
52.5°	109.0
55°	102.3
57.5°	95.2
60°	87.3
62.5°	79.0
65°	70.7
67.5°	62.8
70°	54.9
72.5°	47.0
75°	39.9
77.5°	32.4
80°	25.7
82.5°	19.0
85°	12.6
87.5°	6.3
90°	0.0

(END OF REPORT)