

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: P600629

Luminaire Tested: 235-90-40K-LL1-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600629
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: 235-90-40K-LL1-UNV-STD-X-X-WHHR-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

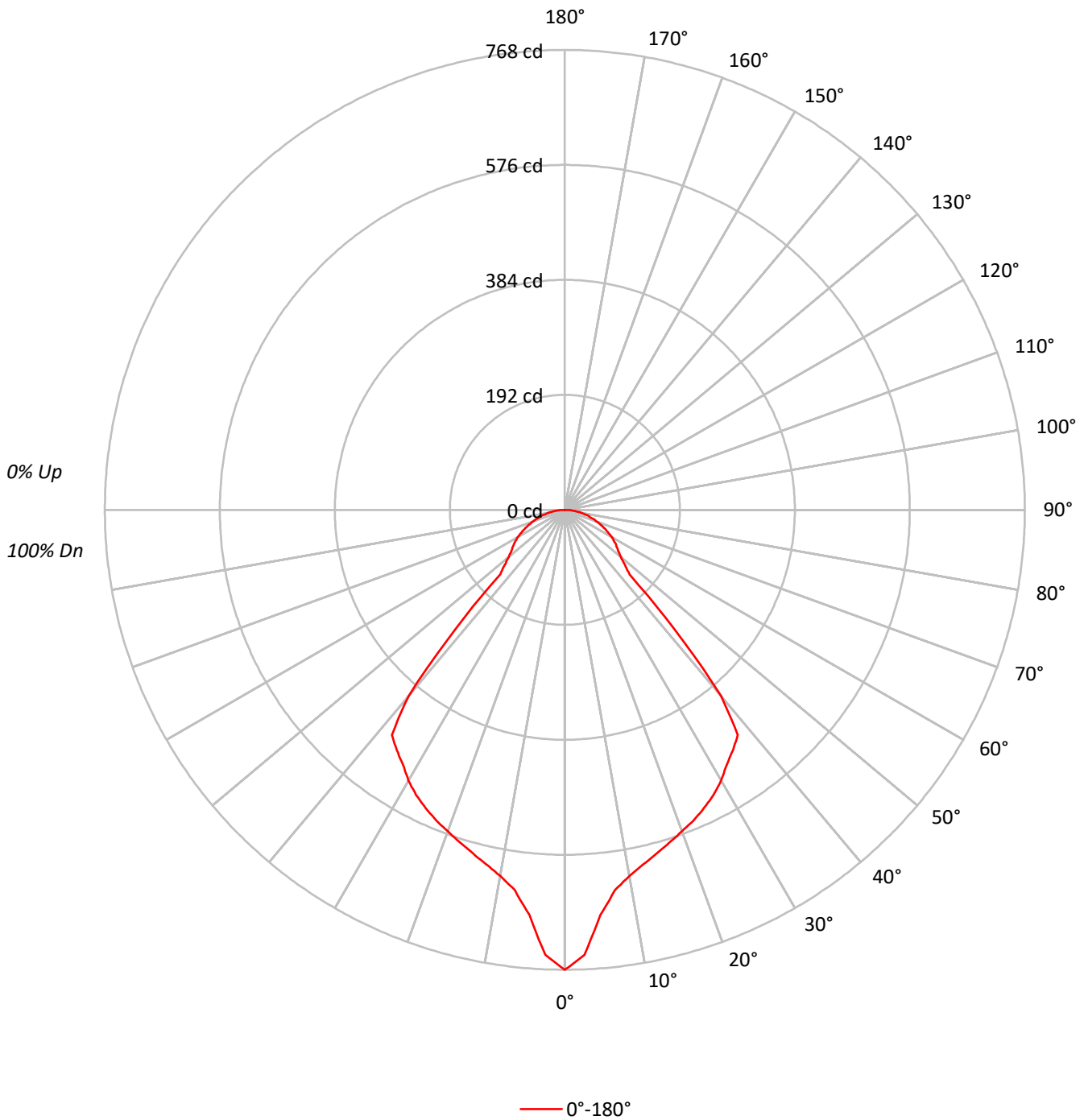
Lumens per Lamp: N/A
Luminaire Lumens: 1166.6 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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				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°	5921
5°	5258
10°	4857
15°	4738
20°	4687
25°	4677
30°	4645
35°	4605
40°	4082
45°	1662
50°	1462
55°	1414
60°	1385
65°	1326
70°	1274
75°	1221
80°	1172
85°	1150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1662 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	5.4
10°-20°	167.8	14.4
20°-30°	253.3	21.7
30°-40°	302.1	25.9
40°-50°	156.2	13.4
50°-60°	94.2	8.1
60°-70°	72.2	6.2
70°-80°	43.3	3.7
80°-90°	14.2	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°	484.4	41.5
0°-40°	786.5	67.4
0°-60°	1036.9	88.9
0°-90°	1166.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	768	
5°	679	63
15°	594	168
25°	550	253
35°	489	302
45°	152	156
55°	105	94
65°	73	72
75°	41	43
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	768.0
2.5°	743.6
5°	679.4
7.5°	640.4
10°	620.5
12.5°	606.3
15°	593.7
17.5°	582.3
20°	571.3
22.5°	561.2
25°	549.8
27.5°	537.2
30°	521.8
32.5°	503.5
35°	489.3
37.5°	474.2
40°	405.6
42.5°	270.2
45°	152.4
47.5°	135.7
50°	121.9
52.5°	112.2
55°	105.2
57.5°	97.9
60°	89.8
62.5°	81.3
65°	72.7
67.5°	64.6
70°	56.5
72.5°	48.4
75°	41.0
77.5°	33.3
80°	26.4
82.5°	19.5
85°	13.0
87.5°	6.5
90°	0.0

(END OF REPORT)