

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: P600648

Luminaire Tested: 235-90-40K-LL7-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600648
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-LL7-UNV-STD-X-X-WHHR-SR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

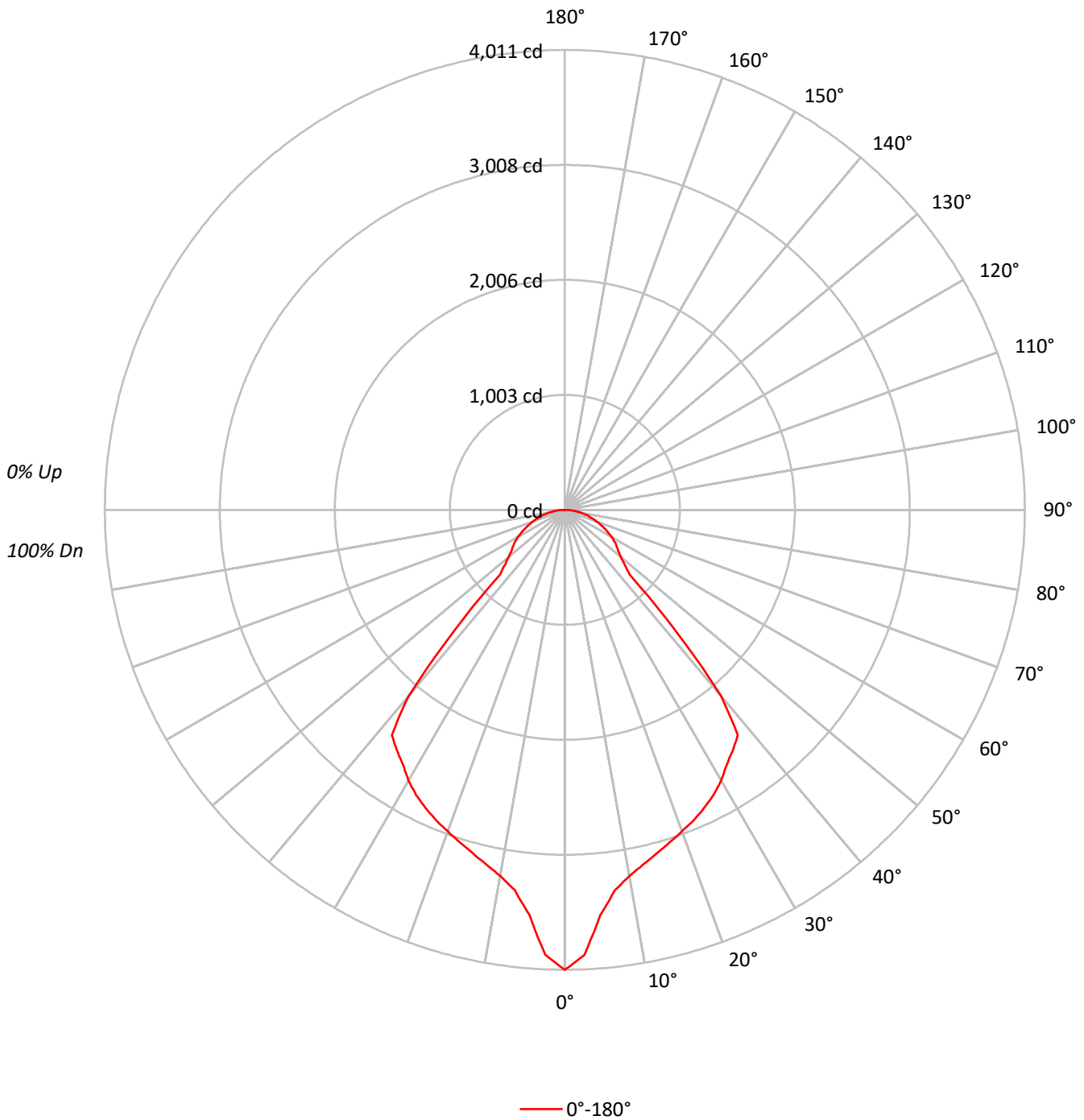
Lumens per Lamp: N/A
Luminaire Lumens: 6092.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 55.4
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°	30923
5°	27460
10°	25369
15°	24747
20°	24480
25°	24425
30°	24258
35°	24048
40°	21316
45°	8677
50°	7636
55°	7388
60°	7231
65°	6930
70°	6649
75°	6386
80°	6127
85°	6006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8677 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	5.4
10°-20°	876.6	14.4
20°-30°	1323.0	21.7
30°-40°	1577.6	25.9
40°-50°	815.9	13.4
50°-60°	492.0	8.1
60°-70°	377.1	6.2
70°-80°	226.2	3.7
80°-90°	74.2	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°	2529.9	41.5
0°-40°	4107.6	67.4
0°-60°	5415.5	88.9
0°-90°	6092.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6092.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4011	
5°	3548	330
15°	3101	877
25°	2872	1323
35°	2555	1578
45°	796	816
55°	550	492
65°	380	377
75°	214	226
85°	68	74
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4011.2
2.5°	3883.9
5°	3548.5
7.5°	3344.8
10°	3240.8
12.5°	3166.5
15°	3100.7
17.5°	3041.3
20°	2984.0
22.5°	2930.9
25°	2871.5
27.5°	2805.7
30°	2725.1
32.5°	2629.6
35°	2555.3
37.5°	2476.8
40°	2118.1
42.5°	1411.4
45°	795.9
47.5°	708.9
50°	636.7
52.5°	585.8
55°	549.7
57.5°	511.5
60°	469.0
62.5°	424.5
65°	379.9
67.5°	337.5
70°	295.0
72.5°	252.6
75°	214.4
77.5°	174.0
80°	138.0
82.5°	101.9
85°	67.9
87.5°	34.0
90°	0.0

(END OF REPORT)