

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: P600739

Luminaire Tested: 215-90-40K-LL6-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-13)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 215-90-40K-LL6-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

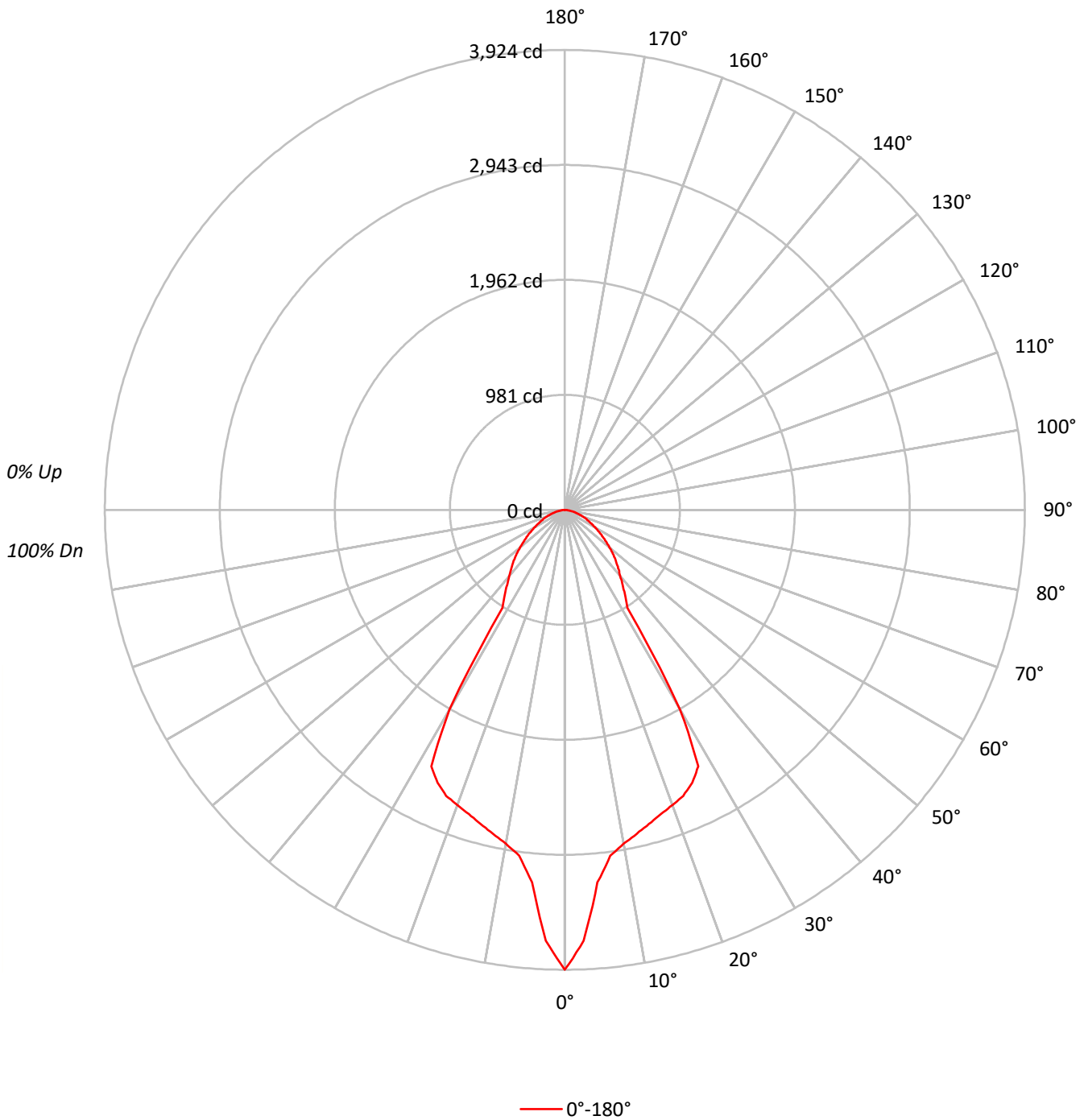
Lumens per Lamp: N/A
Luminaire Lumens: 4023.7 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53774
5°	43897
10°	40246
15°	39370
20°	39097
25°	38840
30°	31060
35°	14996
40°	13142
45°	11933
50°	10595
55°	9309
60°	8144
65°	7118
70°	6219
75°	5242
80°	3646
85°	1305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	7.4
10°-20°	784.5	19.5
20°-30°	1149.2	28.6
30°-40°	624.6	15.5
40°-50°	474.0	11.8
50°-60°	350.6	8.7
60°-70°	220.3	5.5
70°-80°	105.2	2.6
80°-90°	16.6	0.4
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°	2232.4	55.5
0°-40°	2857.0	71.0
0°-60°	3681.6	91.5
0°-90°	4023.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4023.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3924	
5°	3191	299
15°	2775	785
25°	2568	1149
35°	896	625
45°	616	474
55°	390	351
65°	220	220
75°	99	105
85°	8	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3923.7
2.5°	3681.1
5°	3190.8
7.5°	2976.2
10°	2892.0
12.5°	2830.9
15°	2774.8
17.5°	2722.0
20°	2680.7
22.5°	2641.1
25°	2568.5
27.5°	2466.1
30°	1962.7
32.5°	990.4
35°	896.3
37.5°	810.5
40°	734.6
42.5°	673.5
45°	615.7
47.5°	556.3
50°	496.9
52.5°	442.4
55°	389.6
57.5°	341.7
60°	297.1
62.5°	257.5
65°	219.5
67.5°	188.2
70°	155.2
72.5°	127.1
75°	99.0
77.5°	72.6
80°	46.2
82.5°	26.4
85°	8.3
87.5°	3.3
90°	0.0

(END OF REPORT)