

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: P600568

Luminaire Tested: 235-90-27K-LL5-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600568
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: 235-90-27K-LL5-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

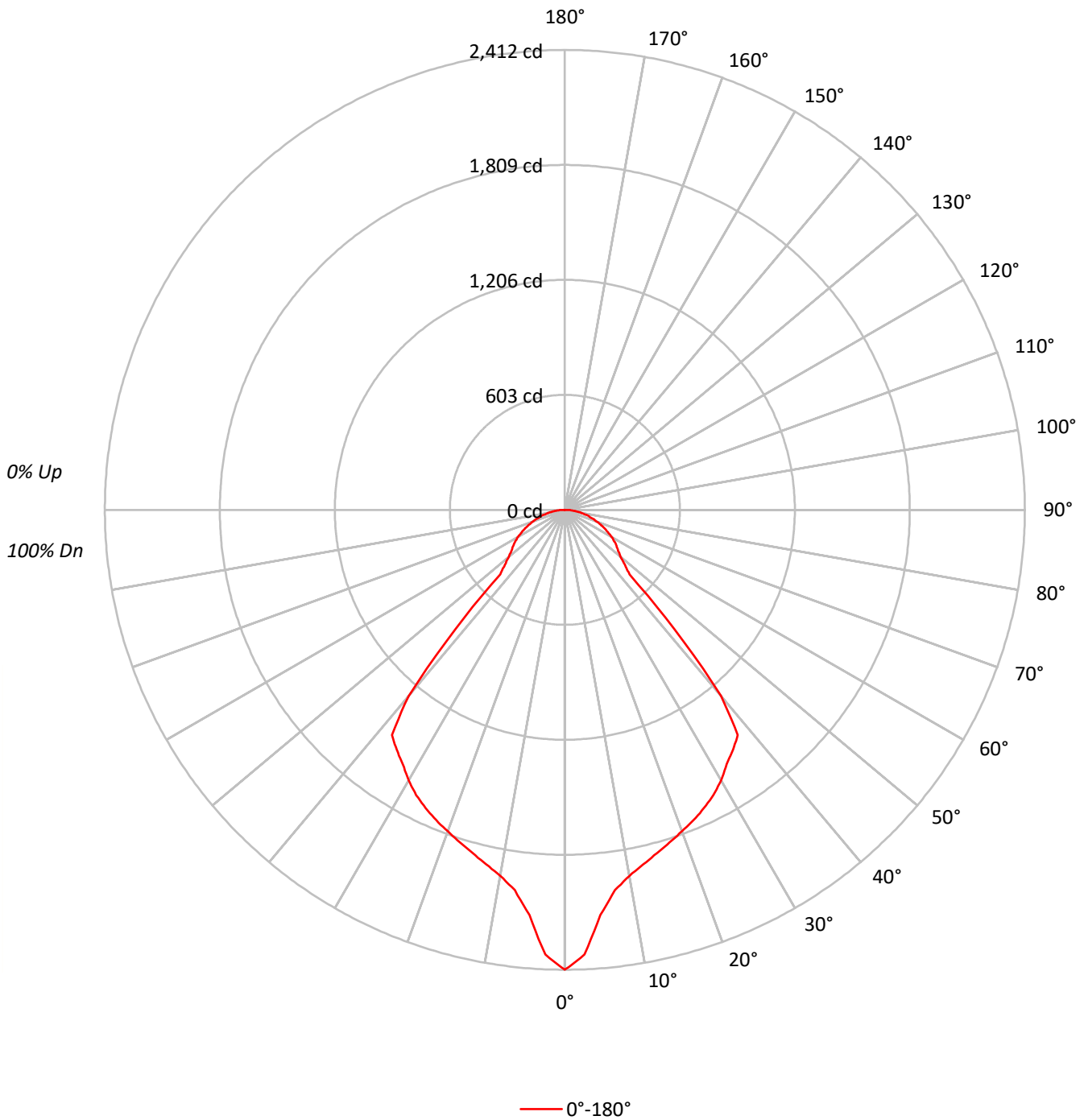
Lumens per Lamp: N/A
Luminaire Lumens: 3663.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.6
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	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°	18591
5°	16509
10°	15251
15°	14878
20°	14718
25°	14684
30°	14584
35°	14457
40°	12815
45°	5217
50°	4591
55°	4442
60°	4348
65°	4166
70°	3999
75°	3839
80°	3680
85°	3609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5217 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	5.4
10°-20°	527.0	14.4
20°-30°	795.4	21.7
30°-40°	948.5	25.9
40°-50°	490.5	13.4
50°-60°	295.8	8.1
60°-70°	226.7	6.2
70°-80°	136.0	3.7
80°-90°	44.6	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°	1521.0	41.5
0°-40°	2469.4	67.4
0°-60°	3255.8	88.9
0°-90°	3663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2412	
5°	2133	199
15°	1864	527
25°	1726	795
35°	1536	948
45°	478	490
55°	330	296
65°	228	227
75°	129	136
85°	41	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2411.5
2.5°	2335.0
5°	2133.4
7.5°	2010.9
10°	1948.3
12.5°	1903.7
15°	1864.1
17.5°	1828.4
20°	1794.0
22.5°	1762.1
25°	1726.3
27.5°	1686.8
30°	1638.3
32.5°	1580.9
35°	1536.2
37.5°	1489.0
40°	1273.4
42.5°	848.5
45°	478.5
47.5°	426.2
50°	382.8
52.5°	352.2
55°	330.5
57.5°	307.5
60°	282.0
62.5°	255.2
65°	228.4
67.5°	202.9
70°	177.4
72.5°	151.8
75°	128.9
77.5°	104.6
80°	82.9
82.5°	61.2
85°	40.8
87.5°	20.4
90°	0.0

(END OF REPORT)