

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: P600611

Luminaire Tested: 235-90-35K-LL3-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600611
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-LL3-UNV-STD-X-X-WHHR-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

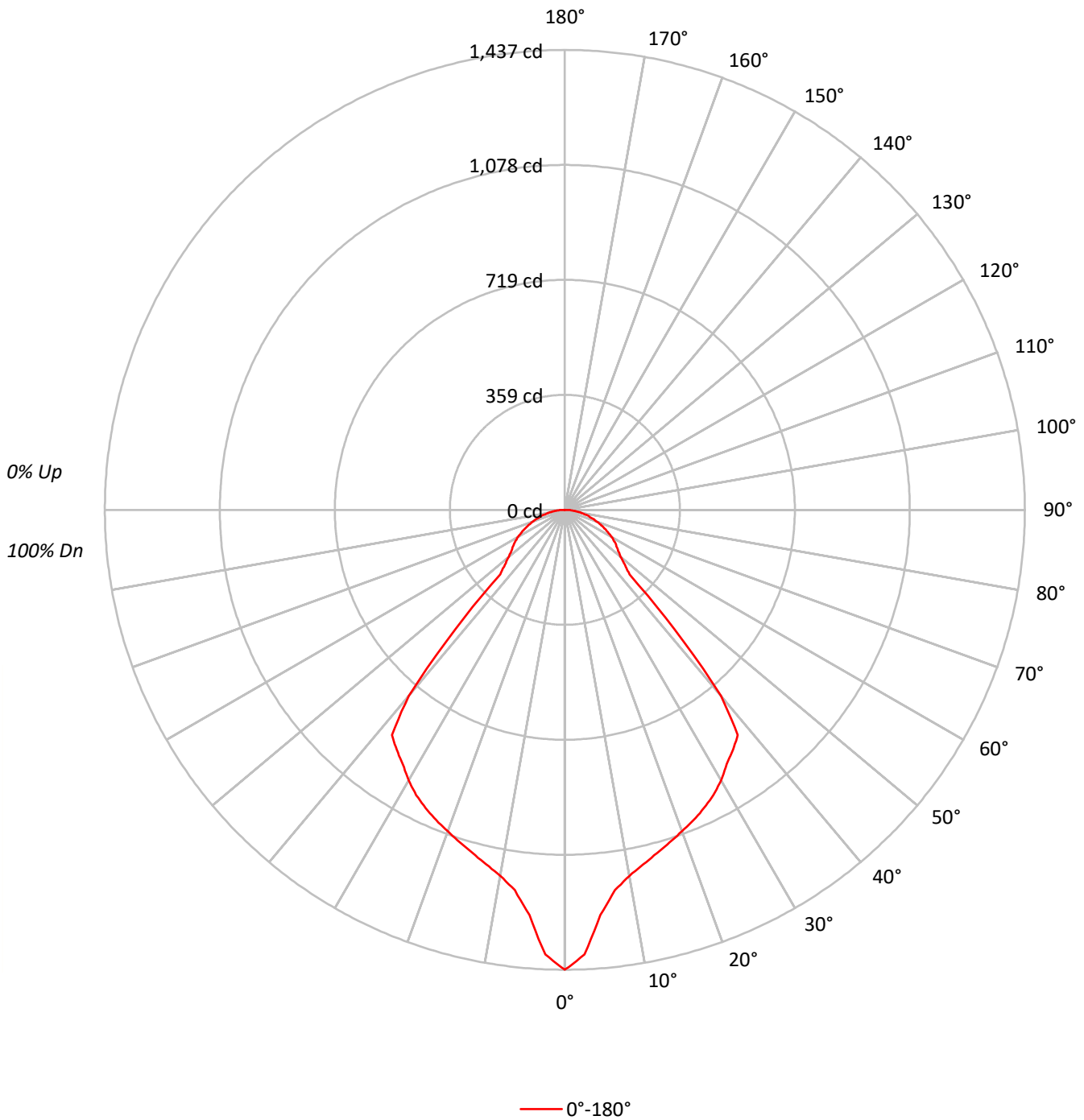
Lumens per Lamp: N/A
Luminaire Lumens: 2182.3 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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										
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°	11076
5°	9835
10°	9086
15°	8864
20°	8767
25°	8749
30°	8688
35°	8613
40°	7634
45°	3108
50°	2734
55°	2646
60°	2590
65°	2483
70°	2382
75°	2288
80°	2193
85°	2149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3108 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	5.4
10°-20°	314.0	14.4
20°-30°	473.8	21.7
30°-40°	565.0	25.9
40°-50°	292.2	13.4
50°-60°	176.2	8.1
60°-70°	135.1	6.2
70°-80°	81.0	3.7
80°-90°	26.6	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°	906.1	41.5
0°-40°	1471.2	67.4
0°-60°	1939.6	88.9
0°-90°	2182.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2182.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1437	
5°	1271	118
15°	1111	314
25°	1028	474
35°	915	565
45°	285	292
55°	197	176
65°	136	135
75°	77	81
85°	24	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1436.7
2.5°	1391.0
5°	1270.9
7.5°	1198.0
10°	1160.7
12.5°	1134.1
15°	1110.6
17.5°	1089.3
20°	1068.7
22.5°	1049.7
25°	1028.5
27.5°	1004.9
30°	976.0
32.5°	941.8
35°	915.2
37.5°	887.1
40°	758.6
42.5°	505.5
45°	285.1
47.5°	253.9
50°	228.0
52.5°	209.8
55°	196.9
57.5°	183.2
60°	168.0
62.5°	152.0
65°	136.1
67.5°	120.9
70°	105.7
72.5°	90.5
75°	76.8
77.5°	62.3
80°	49.4
82.5°	36.5
85°	24.3
87.5°	12.2
90°	0.0

(END OF REPORT)