

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: P600617

Luminaire Tested: 235-90-35K-LL5-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600617
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-LL5-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

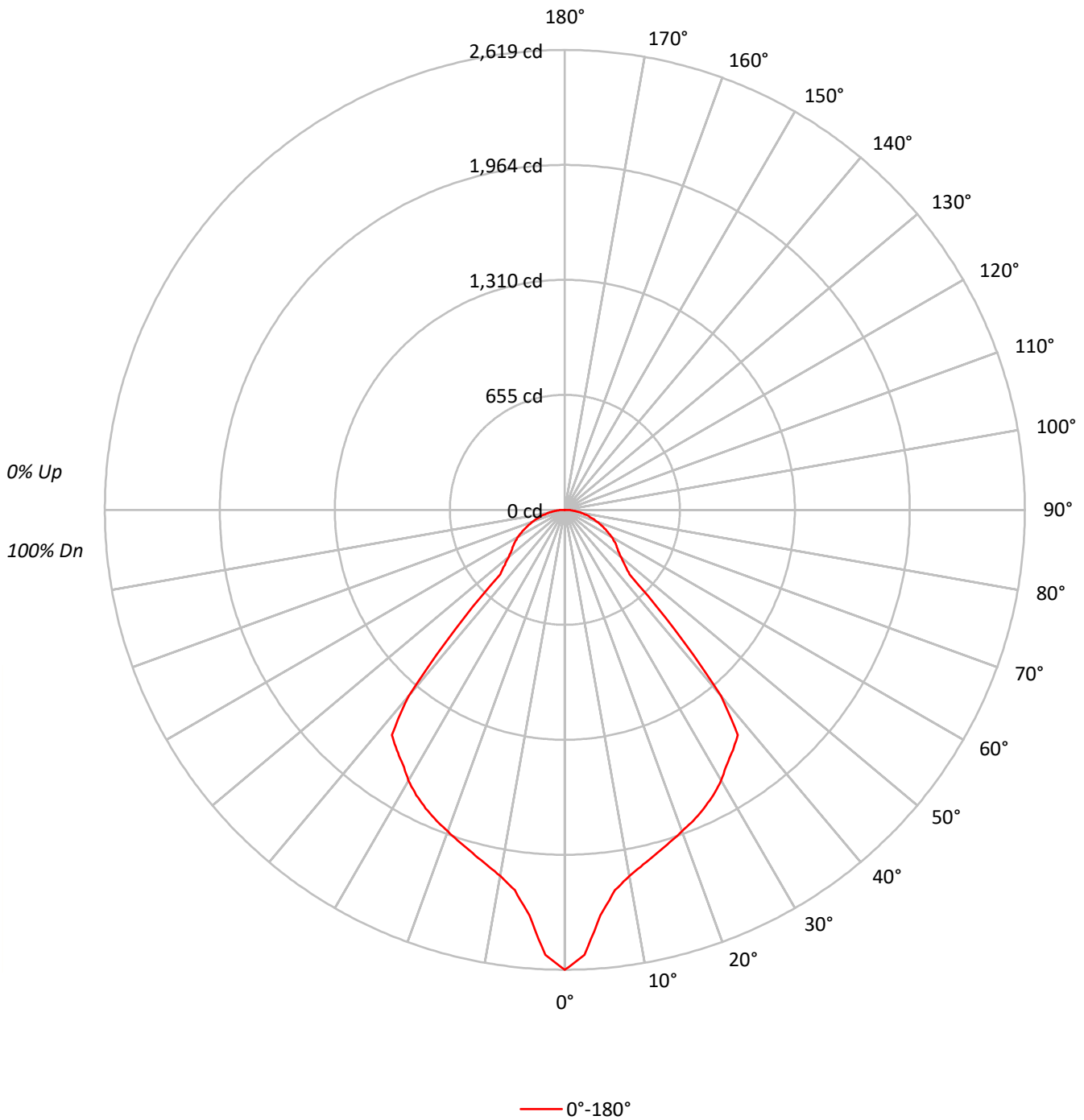
Lumens per Lamp: N/A
Luminaire Lumens: 3978.5 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	20192
5°	17931
10°	16566
15°	16159
20°	15985
25°	15949
30°	15840
35°	15703
40°	13919
45°	5666
50°	4987
55°	4824
60°	4723
65°	4526
70°	4341
75°	4170
80°	4000
85°	3918

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5666 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	5.4
10°-20°	572.4	14.4
20°-30°	863.9	21.7
30°-40°	1030.2	25.9
40°-50°	532.7	13.4
50°-60°	321.3	8.1
60°-70°	246.2	6.2
70°-80°	147.7	3.7
80°-90°	48.4	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°	1652.0	41.5
0°-40°	2682.2	67.4
0°-60°	3536.2	88.9
0°-90°	3978.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3978.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2619	
5°	2317	216
15°	2025	572
25°	1875	864
35°	1669	1030
45°	520	533
55°	359	321
65°	248	246
75°	140	148
85°	44	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2619.2
2.5°	2536.1
5°	2317.1
7.5°	2184.1
10°	2116.2
12.5°	2067.7
15°	2024.7
17.5°	1985.9
20°	1948.5
22.5°	1913.9
25°	1875.0
27.5°	1832.1
30°	1779.4
32.5°	1717.1
35°	1668.6
37.5°	1617.3
40°	1383.1
42.5°	921.6
45°	519.7
47.5°	462.9
50°	415.8
52.5°	382.5
55°	358.9
57.5°	334.0
60°	306.3
62.5°	277.2
65°	248.1
67.5°	220.3
70°	192.6
72.5°	164.9
75°	140.0
77.5°	113.6
80°	90.1
82.5°	66.5
85°	44.3
87.5°	22.2
90°	0.0

(END OF REPORT)