

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: P600593

Luminaire Tested: 235-90-30K-LL5-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600593
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: 235-90-30K-LL5-UNV-STD-X-X-WHHR-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

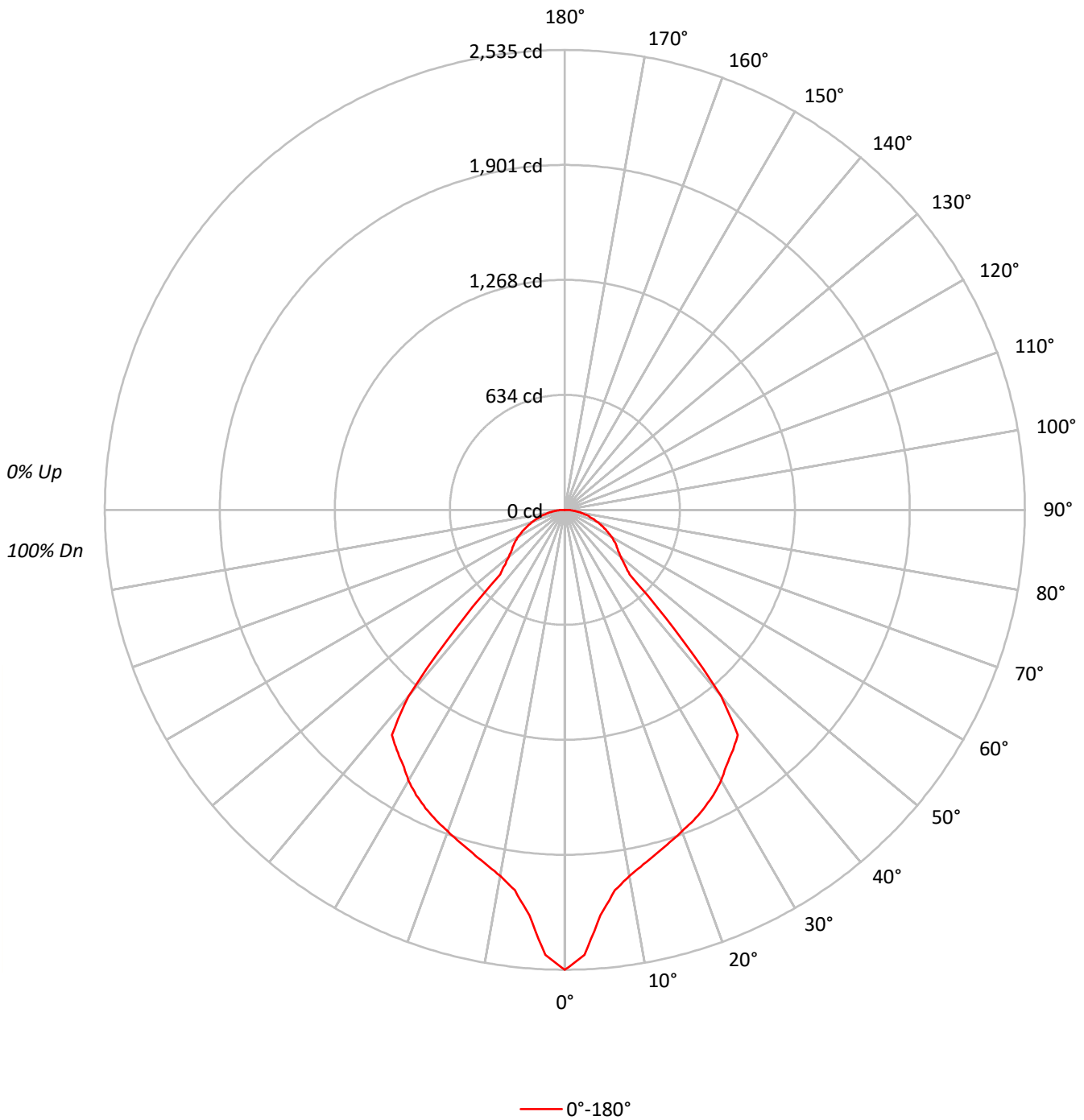
Lumens per Lamp: N/A
Luminaire Lumens: 3850.9 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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°	19544
5°	17356
10°	16034
15°	15641
20°	15473
25°	15438
30°	15332
35°	15199
40°	13472
45°	5484
50°	4826
55°	4669
60°	4570
65°	4380
70°	4204
75°	4036
80°	3871
85°	3795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5484 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	5.4
10°-20°	554.0	14.4
20°-30°	836.2	21.7
30°-40°	997.1	25.9
40°-50°	515.6	13.4
50°-60°	311.0	8.1
60°-70°	238.3	6.2
70°-80°	142.9	3.7
80°-90°	46.9	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°	1599.0	41.5
0°-40°	2596.1	67.4
0°-60°	3422.7	88.9
0°-90°	3850.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2535	
5°	2243	209
15°	1960	554
25°	1815	836
35°	1615	997
45°	503	516
55°	347	311
65°	240	238
75°	136	143
85°	43	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2535.2
2.5°	2454.8
5°	2242.8
7.5°	2114.0
10°	2048.3
12.5°	2001.4
15°	1959.8
17.5°	1922.2
20°	1886.0
22.5°	1852.5
25°	1814.9
27.5°	1773.3
30°	1722.4
32.5°	1662.0
35°	1615.0
37.5°	1565.4
40°	1338.7
42.5°	892.0
45°	503.0
47.5°	448.0
50°	402.4
52.5°	370.2
55°	347.4
57.5°	323.3
60°	296.4
62.5°	268.3
65°	240.1
67.5°	213.3
70°	186.5
72.5°	159.6
75°	135.5
77.5°	110.0
80°	87.2
82.5°	64.4
85°	42.9
87.5°	21.5
90°	0.0

(END OF REPORT)