

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: P600592

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600592
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-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

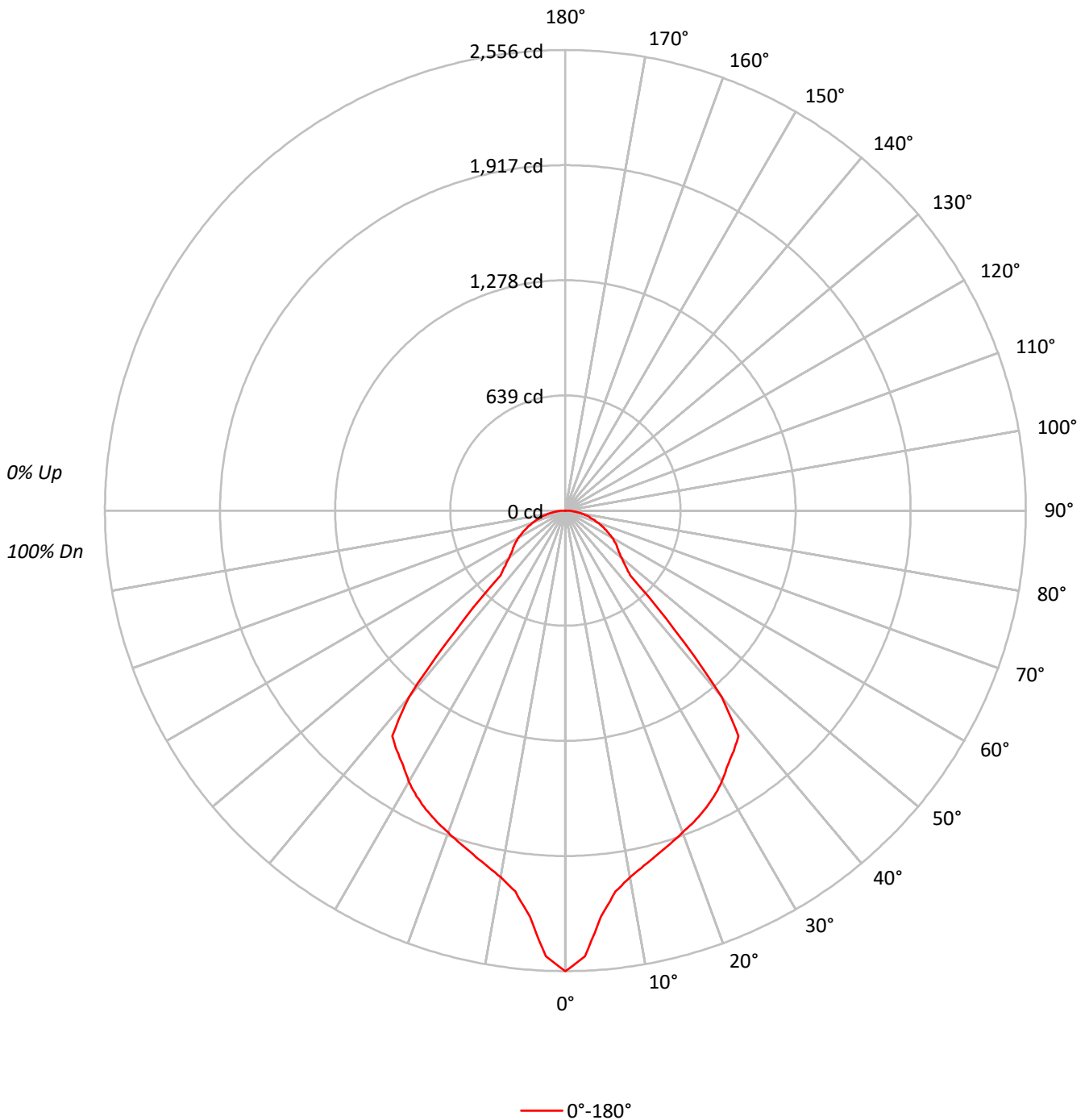
Lumens per Lamp: N/A
Luminaire Lumens: 3883.1 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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°	19708
5°	17502
10°	16169
15°	15772
20°	15602
25°	15567
30°	15461
35°	15327
40°	13585
45°	5530
50°	4867
55°	4708
60°	4609
65°	4416
70°	4238
75°	4069
80°	3902
85°	3830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5530 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	5.4
10°-20°	558.7	14.4
20°-30°	843.2	21.7
30°-40°	1005.5	25.9
40°-50°	520.0	13.4
50°-60°	313.6	8.1
60°-70°	240.3	6.2
70°-80°	144.1	3.7
80°-90°	47.3	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°	1612.4	41.5
0°-40°	2617.9	67.4
0°-60°	3451.4	88.9
0°-90°	3883.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2556	
5°	2262	211
15°	1976	559
25°	1830	843
35°	1629	1005
45°	507	520
55°	350	314
65°	242	240
75°	137	144
85°	43	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2556.5
2.5°	2475.4
5°	2261.6
7.5°	2131.8
10°	2065.5
12.5°	2018.2
15°	1976.2
17.5°	1938.3
20°	1901.8
22.5°	1868.0
25°	1830.1
27.5°	1788.2
30°	1736.8
32.5°	1675.9
35°	1628.6
37.5°	1578.5
40°	1349.9
42.5°	899.5
45°	507.2
47.5°	451.8
50°	405.8
52.5°	373.3
55°	350.3
57.5°	326.0
60°	298.9
62.5°	270.5
65°	242.1
67.5°	215.1
70°	188.0
72.5°	161.0
75°	136.6
77.5°	110.9
80°	87.9
82.5°	64.9
85°	43.3
87.5°	21.6
90°	0.0

(END OF REPORT)