

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: P600677

Luminaire Tested: 215-90-30K-LL1-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-13)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 215-90-30K-LL1-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

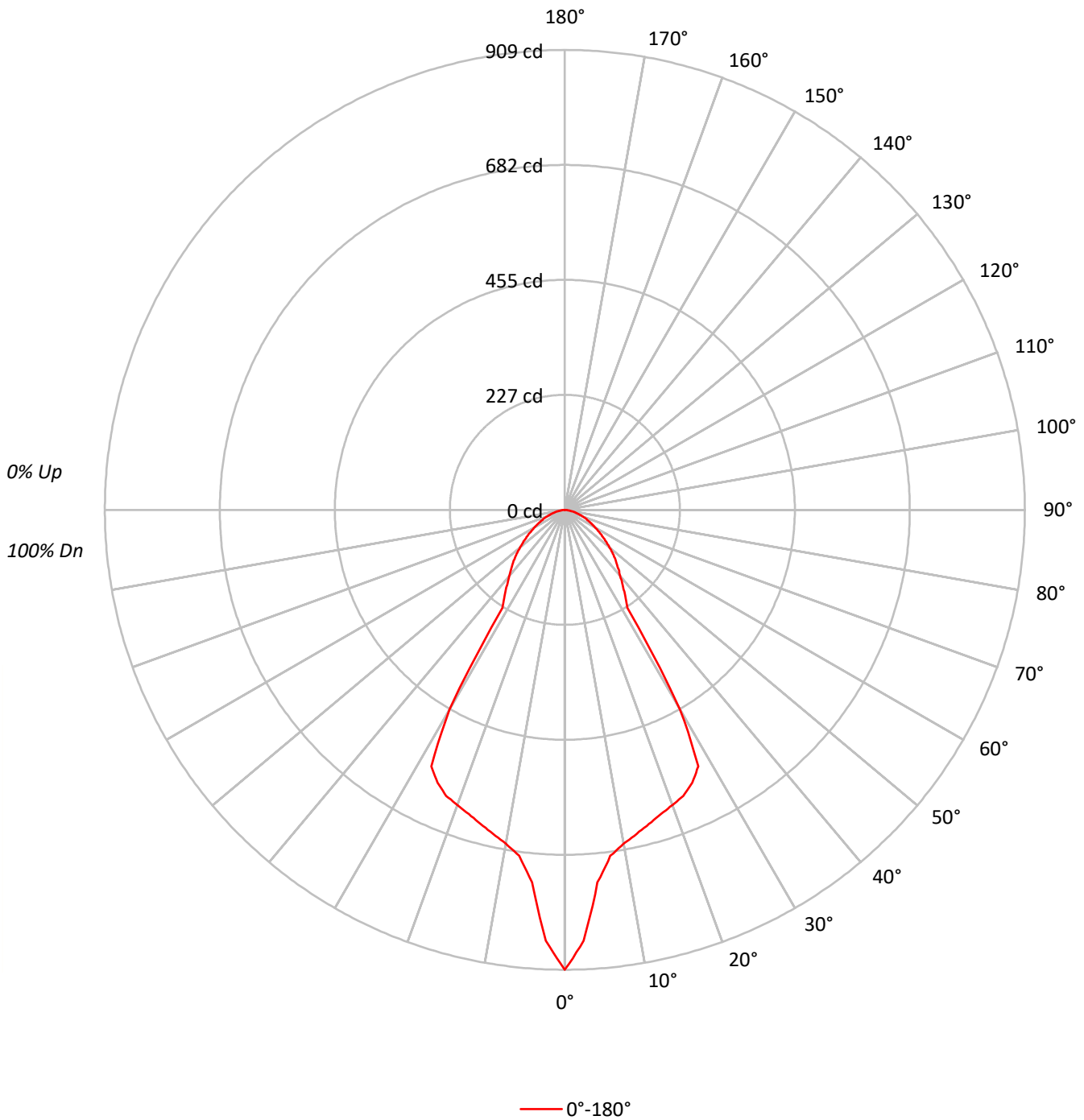
Lumens per Lamp: N/A
Luminaire Lumens: 932.2 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90			90	
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80			80	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65			65	
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59			59	
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54			54	
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50			50	
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46			46	
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43			43	
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40			40	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12458
5°	10169
10°	9324
15°	9120
20°	9057
25°	8997
30°	7196
35°	3475
40°	3045
45°	2764
50°	2454
55°	2158
60°	1886
65°	1651
70°	1439
75°	1213
80°	844
85°	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	7.4
10°-20°	181.7	19.5
20°-30°	266.2	28.6
30°-40°	144.7	15.5
40°-50°	109.8	11.8
50°-60°	81.2	8.7
60°-70°	51.0	5.5
70°-80°	24.3	2.6
80°-90°	3.8	0.4
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°	517.2	55.5
0°-40°	661.9	71.0
0°-60°	852.9	91.5
0°-90°	932.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	909	
5°	739	69
15°	643	182
25°	595	266
35°	208	145
45°	143	110
55°	90	81
65°	51	51
75°	23	24
85°	2	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	909.0
2.5°	852.8
5°	739.2
7.5°	689.5
10°	670.0
12.5°	655.8
15°	642.8
17.5°	630.6
20°	621.0
22.5°	611.9
25°	595.0
27.5°	571.3
30°	454.7
32.5°	229.5
35°	207.7
37.5°	187.8
40°	170.2
42.5°	156.0
45°	142.6
47.5°	128.9
50°	115.1
52.5°	102.5
55°	90.3
57.5°	79.2
60°	68.8
62.5°	59.7
65°	50.9
67.5°	43.6
70°	35.9
72.5°	29.4
75°	22.9
77.5°	16.8
80°	10.7
82.5°	6.1
85°	1.9
87.5°	0.8
90°	0.0

(END OF REPORT)