

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: P600686

Luminaire Tested: 215-90-30K-LL4-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600686
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-LL4-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

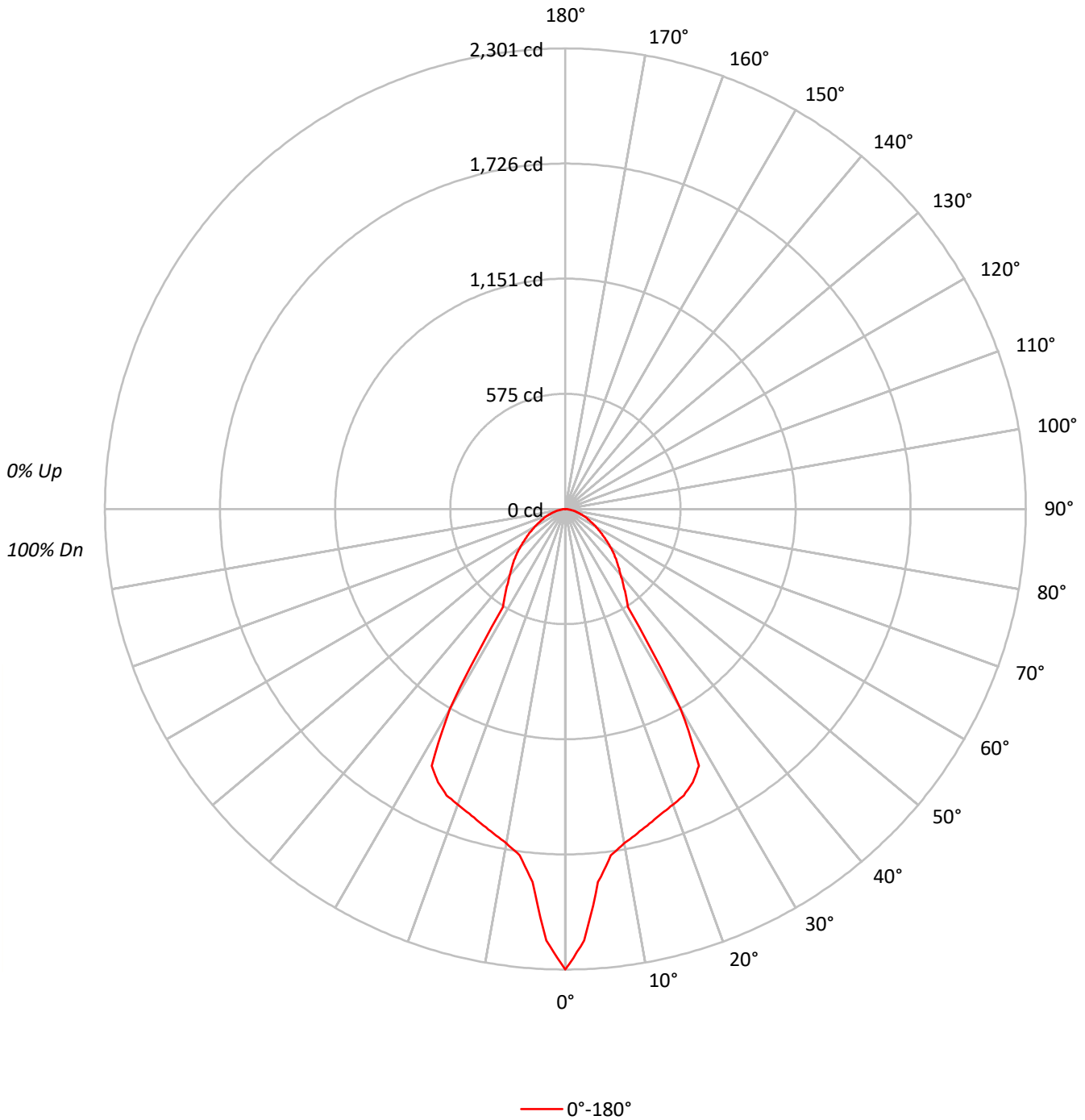
Lumens per Lamp: N/A
Luminaire Lumens: 2359.4 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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										
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	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°	31533
5°	25740
10°	23600
15°	23086
20°	22926
25°	22775
30°	18213
35°	8794
40°	7706
45°	6997
50°	6211
55°	5457
60°	4775
65°	4174
70°	3646
75°	3077
80°	2139
85°	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6997 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	7.4
10°-20°	460.0	19.5
20°-30°	673.8	28.6
30°-40°	366.2	15.5
40°-50°	277.9	11.8
50°-60°	205.6	8.7
60°-70°	129.2	5.5
70°-80°	61.7	2.6
80°-90°	9.7	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°	1309.0	55.5
0°-40°	1675.3	71.0
0°-60°	2158.8	91.5
0°-90°	2359.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2359.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2301	
5°	1871	175
15°	1627	460
25°	1506	674
35°	526	366
45°	361	278
55°	228	206
65°	129	129
75°	58	62
85°	5	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2300.8
2.5°	2158.5
5°	1871.0
7.5°	1745.2
10°	1695.8
12.5°	1660.0
15°	1627.1
17.5°	1596.1
20°	1571.9
22.5°	1548.7
25°	1506.1
27.5°	1446.1
30°	1150.9
32.5°	580.8
35°	525.6
37.5°	475.3
40°	430.7
42.5°	394.9
45°	361.0
47.5°	326.2
50°	291.3
52.5°	259.4
55°	228.4
57.5°	200.4
60°	174.2
62.5°	151.0
65°	128.7
67.5°	110.3
70°	91.0
72.5°	74.5
75°	58.1
77.5°	42.6
80°	27.1
82.5°	15.5
85°	4.8
87.5°	1.9
90°	0.0

(END OF REPORT)