

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: P600590

Luminaire Tested: 225-90-30K-LL4-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600590
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: 225-90-30K-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

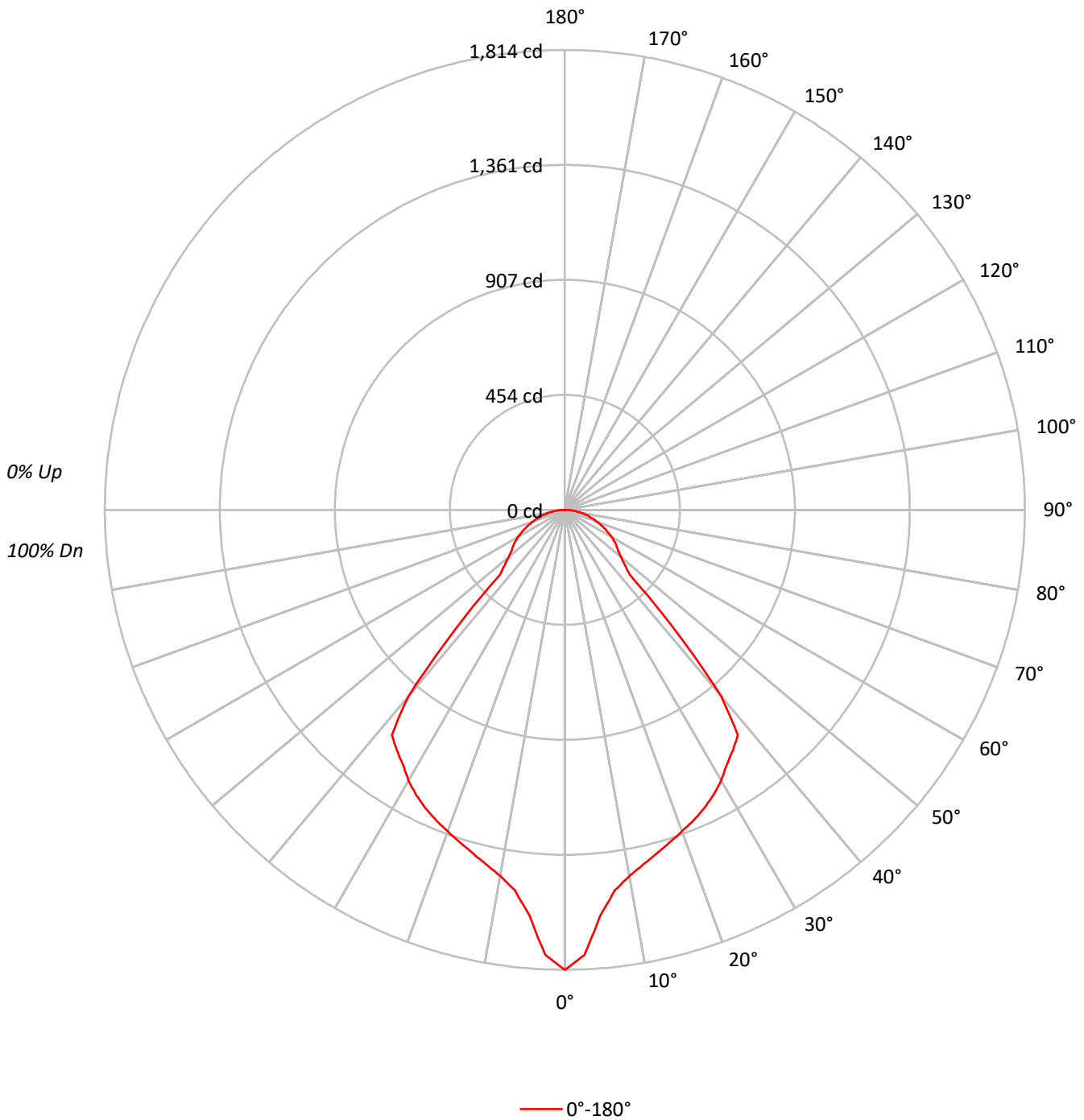
Lumens per Lamp: N/A
Luminaire Lumens: 2755.6 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 23.2
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°	13986
5°	12420
10°	11474
15°	11193
20°	11072
25°	11047
30°	10971
35°	10876
40°	9641
45°	3925
50°	3454
55°	3341
60°	3270
65°	3134
70°	3007
75°	2886
80°	2770
85°	2715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3925 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	5.4
10°-20°	396.4	14.4
20°-30°	598.3	21.7
30°-40°	713.5	25.9
40°-50°	369.0	13.4
50°-60°	222.5	8.1
60°-70°	170.5	6.2
70°-80°	102.3	3.7
80°-90°	33.6	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°	1144.2	41.5
0°-40°	1857.8	67.4
0°-60°	2449.3	88.9
0°-90°	2755.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2755.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1814	
5°	1605	149
15°	1402	396
25°	1299	598
35°	1156	714
45°	360	369
55°	249	223
65°	172	171
75°	97	102
85°	31	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1814.2
2.5°	1756.6
5°	1604.9
7.5°	1512.8
10°	1465.7
12.5°	1432.1
15°	1402.4
17.5°	1375.5
20°	1349.6
22.5°	1325.6
25°	1298.7
27.5°	1269.0
30°	1232.5
32.5°	1189.3
35°	1155.7
37.5°	1120.2
40°	958.0
42.5°	638.3
45°	360.0
47.5°	320.6
50°	288.0
52.5°	264.9
55°	248.6
57.5°	231.3
60°	212.1
62.5°	192.0
65°	171.8
67.5°	152.6
70°	133.4
72.5°	114.2
75°	96.9
77.5°	78.7
80°	62.4
82.5°	46.1
85°	30.7
87.5°	15.4
90°	0.0

(END OF REPORT)