

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: P600596

Luminaire Tested: 235-90-30K-LL6-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600596
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-LL6-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

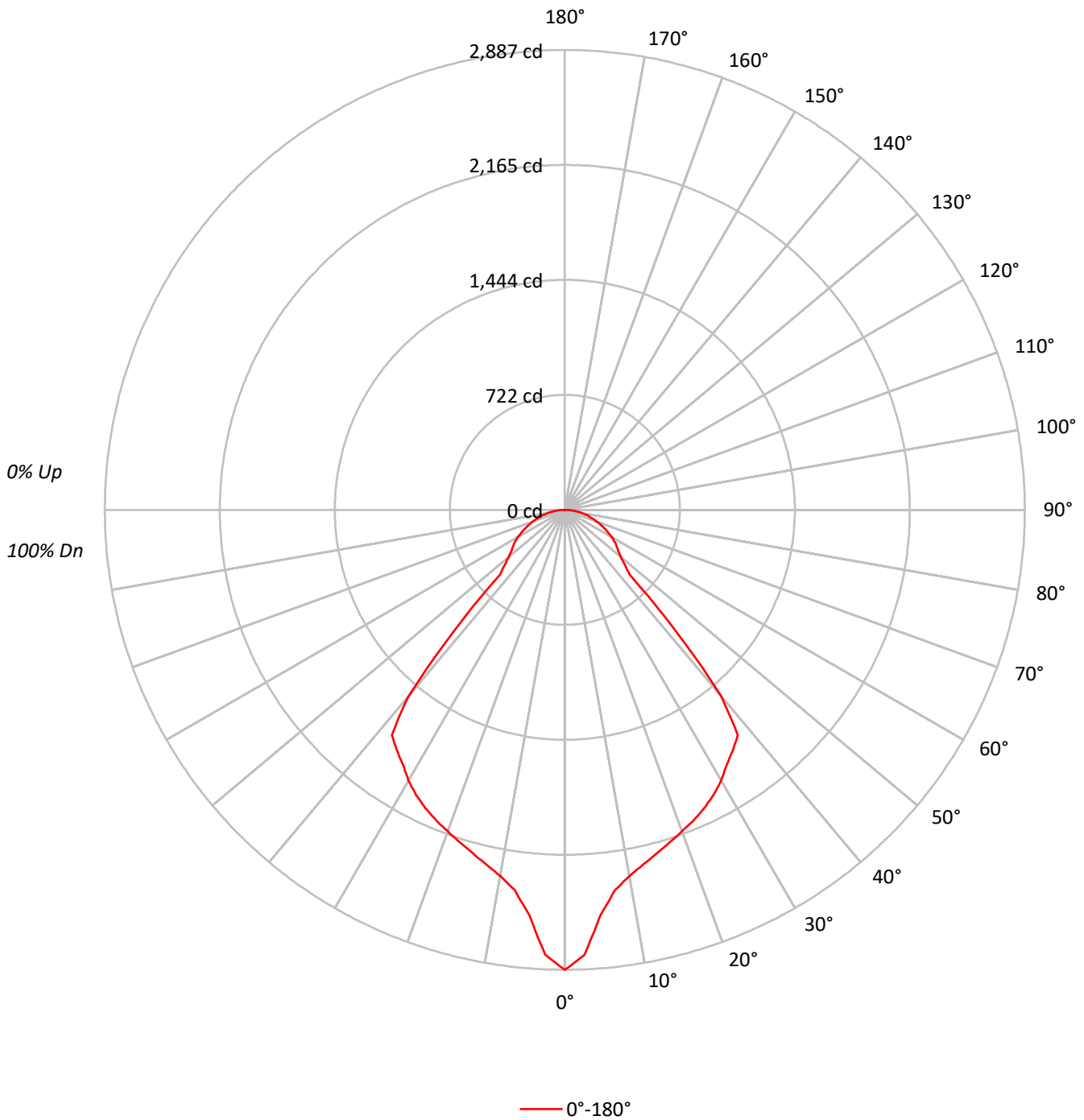
Lumens per Lamp: N/A
Luminaire Lumens: 4385.7 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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									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	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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88													88															
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77													77															
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68													68															
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61													61															
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54													54															
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49													49															
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44													44															
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41													41															
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37													37															
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34													34															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22259
5°	19767
10°	18261
15°	17813
20°	17621
25°	17582
30°	17461
35°	17310
40°	15343
45°	6246
50°	5497
55°	5318
60°	5205
65°	4989
70°	4785
75°	4596
80°	4408
85°	4325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6246 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	5.4
10°-20°	631.0	14.4
20°-30°	952.3	21.7
30°-40°	1135.6	25.9
40°-50°	587.2	13.4
50°-60°	354.2	8.1
60°-70°	271.4	6.2
70°-80°	162.8	3.7
80°-90°	53.4	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°	1821.1	41.5
0°-40°	2956.7	67.4
0°-60°	3898.1	88.9
0°-90°	4385.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4385.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2887	
5°	2554	238
15°	2232	631
25°	2067	952
35°	1839	1136
45°	573	587
55°	396	354
65°	274	271
75°	154	163
85°	49	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2887.3
2.5°	2795.7
5°	2554.3
7.5°	2407.6
10°	2332.8
12.5°	2279.3
15°	2231.9
17.5°	2189.2
20°	2147.9
22.5°	2109.7
25°	2067.0
27.5°	2019.6
30°	1961.5
32.5°	1892.8
35°	1839.3
37.5°	1782.8
40°	1524.6
42.5°	1015.9
45°	572.9
47.5°	510.2
50°	458.3
52.5°	421.6
55°	395.7
57.5°	368.2
60°	337.6
62.5°	305.5
65°	273.5
67.5°	242.9
70°	212.3
72.5°	181.8
75°	154.3
77.5°	125.3
80°	99.3
82.5°	73.3
85°	48.9
87.5°	24.4
90°	0.0

(END OF REPORT)