

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: P600644

Luminaire Tested: 235-90-40K-LL6-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600644
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: 235-90-40K-LL6-UNV-STD-X-X-WHHR-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

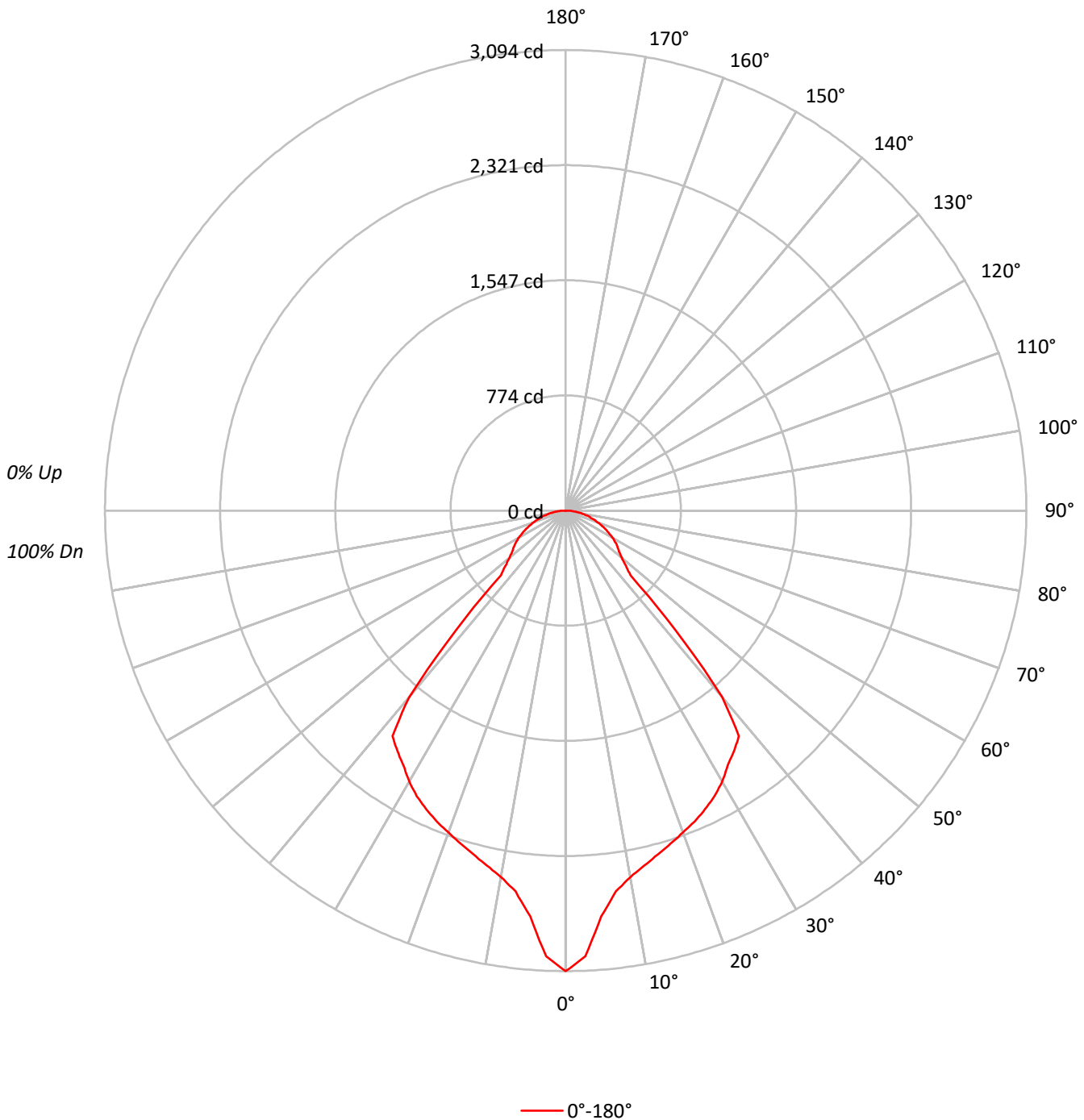
Lumens per Lamp: N/A
Luminaire Lumens: 4699.4 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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										
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	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°	23851
5°	21180
10°	19567
15°	19088
20°	18882
25°	18839
30°	18711
35°	18548
40°	16441
45°	6693
50°	5890
55°	5699
60°	5578
65°	5345
70°	5128
75°	4924
80°	4724
85°	4635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6693 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	5.4
10°-20°	676.1	14.4
20°-30°	1020.4	21.7
30°-40°	1216.8	25.9
40°-50°	629.3	13.4
50°-60°	379.5	8.1
60°-70°	290.8	6.2
70°-80°	174.4	3.7
80°-90°	57.3	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°	1951.4	41.5
0°-40°	3168.2	67.4
0°-60°	4177.0	88.9
0°-90°	4699.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4699.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3094	
5°	2737	255
15°	2392	676
25°	2215	1020
35°	1971	1217
45°	614	629
55°	424	380
65°	293	291
75°	165	174
85°	52	57
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3093.9
2.5°	2995.6
5°	2737.0
7.5°	2579.9
10°	2499.6
12.5°	2442.4
15°	2391.6
17.5°	2345.8
20°	2301.6
22.5°	2260.6
25°	2214.8
27.5°	2164.1
30°	2101.9
32.5°	2028.2
35°	1970.9
37.5°	1910.3
40°	1633.7
42.5°	1088.6
45°	613.9
47.5°	546.7
50°	491.1
52.5°	451.8
55°	424.0
57.5°	394.5
60°	361.8
62.5°	327.4
65°	293.0
67.5°	260.3
70°	227.5
72.5°	194.8
75°	165.3
77.5°	134.2
80°	106.4
82.5°	78.6
85°	52.4
87.5°	26.2
90°	0.0

(END OF REPORT)