

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: P600645

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600645
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-SR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

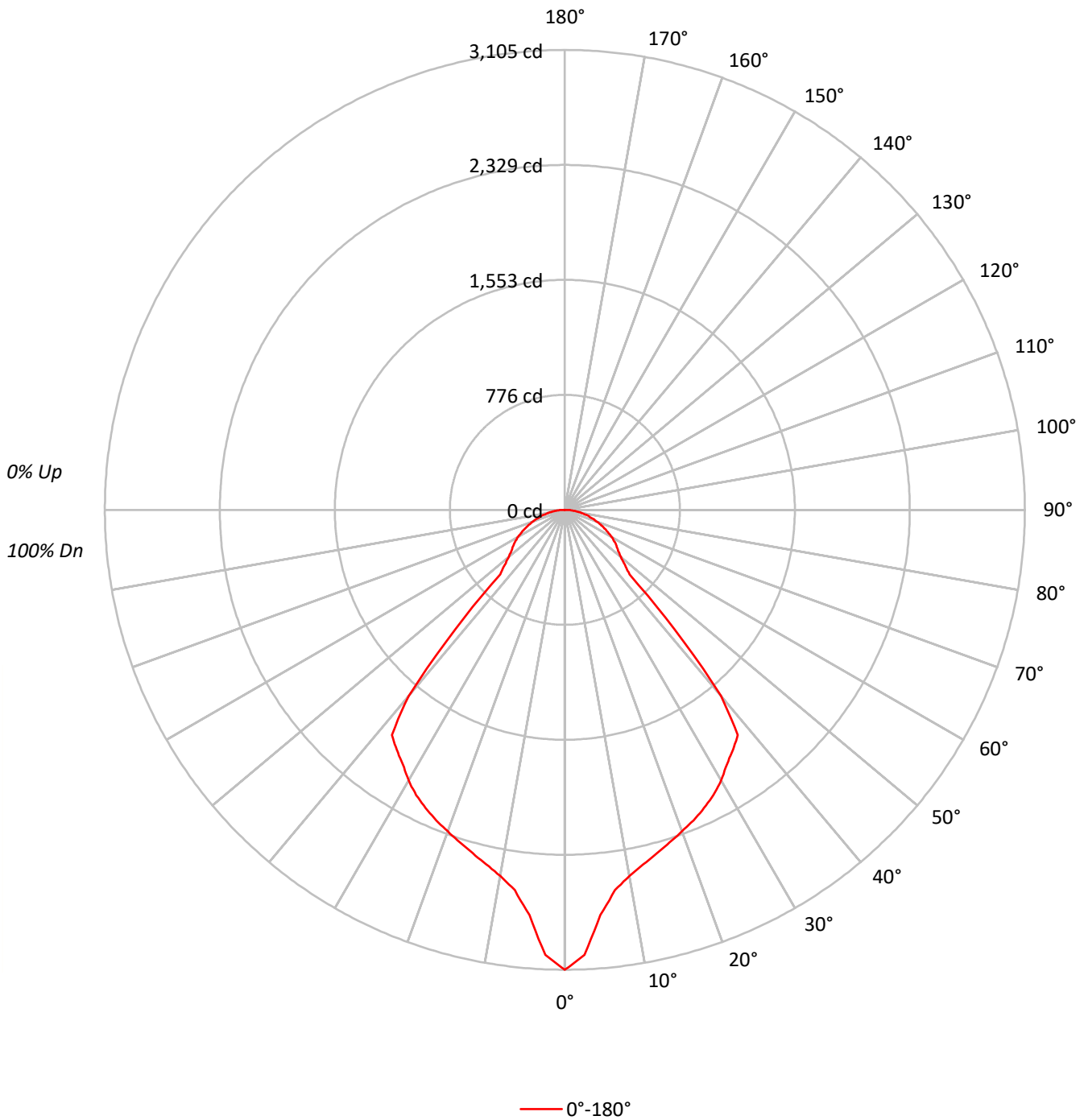
Lumens per Lamp: N/A
Luminaire Lumens: 4716.4 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	
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°	23937
5°	21257
10°	19638
15°	19156
20°	18950
25°	18907
30°	18777
35°	18615
40°	16500
45°	6717
50°	5911
55°	5719
60°	5598
65°	5365
70°	5148
75°	4941
80°	4741
85°	4653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	5.4
10°-20°	678.5	14.4
20°-30°	1024.1	21.7
30°-40°	1221.2	25.9
40°-50°	631.5	13.4
50°-60°	380.9	8.1
60°-70°	291.9	6.2
70°-80°	175.1	3.7
80°-90°	57.5	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°	1958.4	41.5
0°-40°	3179.6	67.4
0°-60°	4192.0	88.9
0°-90°	4716.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3105	
5°	2747	256
15°	2400	679
25°	2223	1024
35°	1978	1221
45°	616	632
55°	426	381
65°	294	292
75°	166	175
85°	53	57
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3105.0
2.5°	3006.5
5°	2746.9
7.5°	2589.2
10°	2508.7
12.5°	2451.2
15°	2400.2
17.5°	2354.2
20°	2309.9
22.5°	2268.8
25°	2222.8
27.5°	2171.9
30°	2109.4
32.5°	2035.5
35°	1978.0
37.5°	1917.2
40°	1639.6
42.5°	1092.5
45°	616.1
47.5°	548.7
50°	492.9
52.5°	453.4
55°	425.5
57.5°	395.9
60°	363.1
62.5°	328.6
65°	294.1
67.5°	261.2
70°	228.4
72.5°	195.5
75°	165.9
77.5°	134.7
80°	106.8
82.5°	78.9
85°	52.6
87.5°	26.3
90°	0.0

(END OF REPORT)