

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: P600636

Luminaire Tested: 235-90-40K-LL3-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600636
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-LL3-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

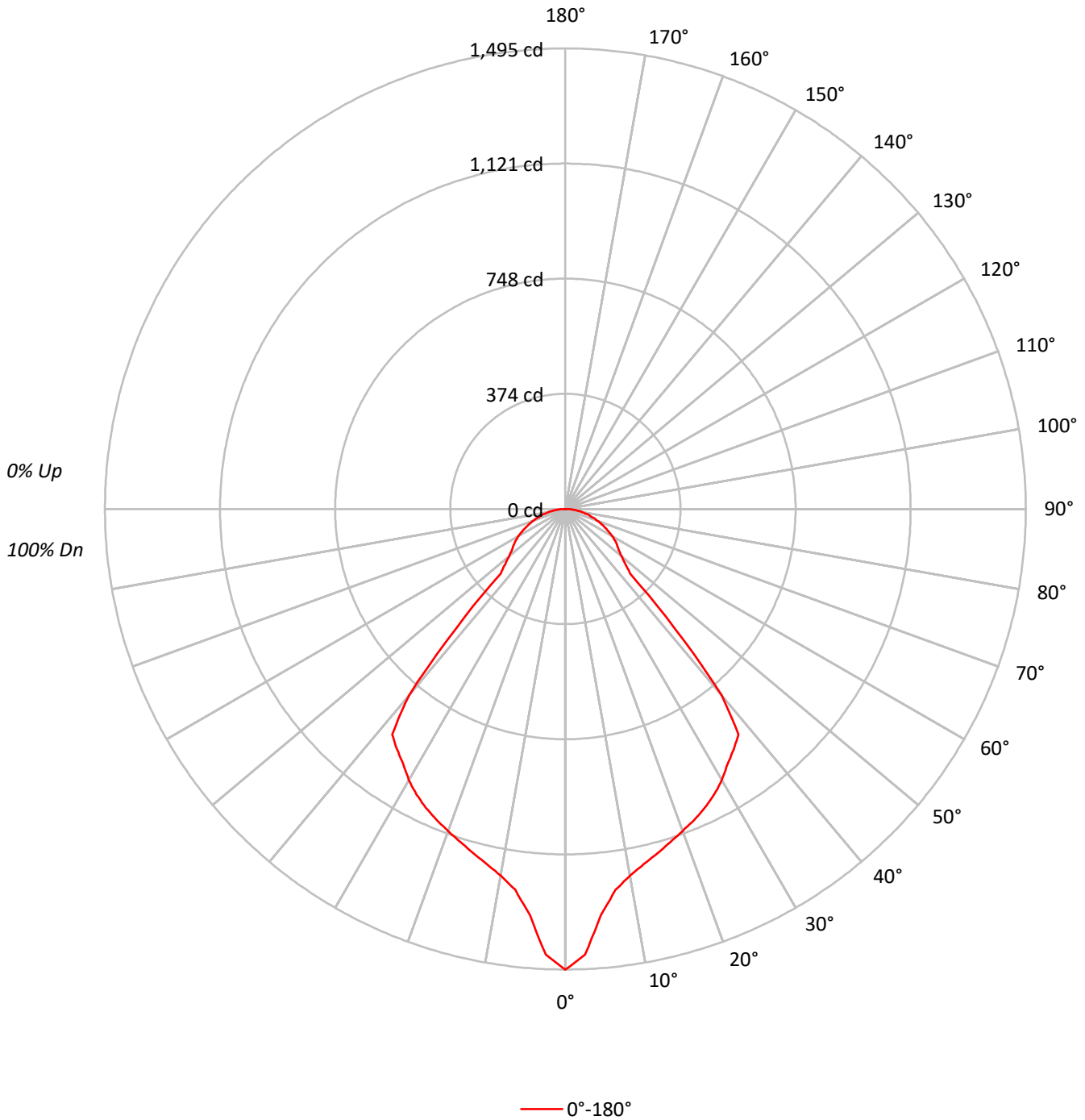
Lumens per Lamp: N/A
Luminaire Lumens: 2271.5 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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°	11528
5°	10237
10°	9458
15°	9226
20°	9127
25°	9106
30°	9043
35°	8965
40°	7946
45°	3235
50°	2847
55°	2754
60°	2697
65°	2583
70°	2479
75°	2380
80°	2282
85°	2238

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	5.4
10°-20°	326.8	14.4
20°-30°	493.2	21.7
30°-40°	588.1	25.9
40°-50°	304.2	13.4
50°-60°	183.4	8.1
60°-70°	140.6	6.2
70°-80°	84.3	3.7
80°-90°	27.7	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°	943.2	41.5
0°-40°	1531.3	67.4
0°-60°	2018.9	88.9
0°-90°	2271.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2271.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1495	
5°	1323	123
15°	1156	327
25°	1070	493
35°	953	588
45°	297	304
55°	205	183
65°	142	141
75°	80	84
85°	25	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1495.4
2.5°	1448.0
5°	1322.9
7.5°	1247.0
10°	1208.2
12.5°	1180.5
15°	1156.0
17.5°	1133.8
20°	1112.5
22.5°	1092.7
25°	1070.5
27.5°	1046.0
30°	1015.9
32.5°	980.3
35°	952.6
37.5°	923.4
40°	789.6
42.5°	526.2
45°	296.7
47.5°	264.3
50°	237.4
52.5°	218.4
55°	204.9
57.5°	190.7
60°	174.9
62.5°	158.2
65°	141.6
67.5°	125.8
70°	110.0
72.5°	94.2
75°	79.9
77.5°	64.9
80°	51.4
82.5°	38.0
85°	25.3
87.5°	12.7
90°	0.0

(END OF REPORT)