

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: P600631

Luminaire Tested: 235-90-40K-LL2-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600631
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-LL2-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

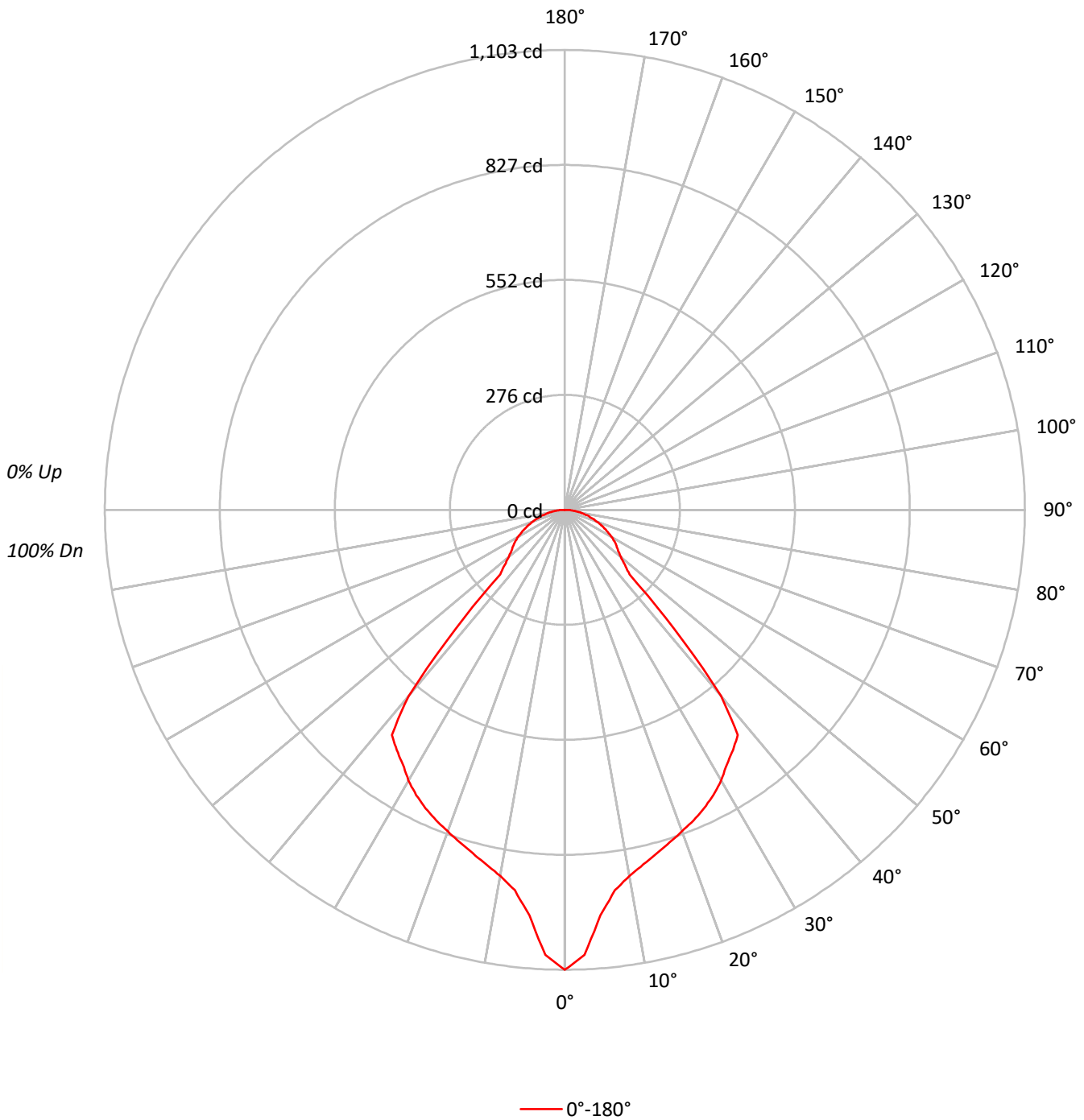
Lumens per Lamp: N/A
Luminaire Lumens: 1675.6 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.9
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°	8504
5°	7552
10°	6977
15°	6805
20°	6732
25°	6717
30°	6671
35°	6613
40°	5862
45°	2387
50°	2100
55°	2032
60°	1989
65°	1906
70°	1828
75°	1757
80°	1683
85°	1654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	5.4
10°-20°	241.1	14.4
20°-30°	363.8	21.7
30°-40°	433.9	25.9
40°-50°	224.4	13.4
50°-60°	135.3	8.1
60°-70°	103.7	6.2
70°-80°	62.2	3.7
80°-90°	20.4	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°	695.8	41.5
0°-40°	1129.6	67.4
0°-60°	1489.3	88.9
0°-90°	1675.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1103	
5°	976	91
15°	853	241
25°	790	364
35°	703	434
45°	219	224
55°	151	135
65°	104	104
75°	59	62
85°	19	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1103.1
2.5°	1068.1
5°	975.9
7.5°	919.9
10°	891.3
12.5°	870.8
15°	852.7
17.5°	836.4
20°	820.6
22.5°	806.1
25°	789.7
27.5°	771.6
30°	749.4
32.5°	723.2
35°	702.7
37.5°	681.1
40°	582.5
42.5°	388.1
45°	218.9
47.5°	194.9
50°	175.1
52.5°	161.1
55°	151.2
57.5°	140.7
60°	129.0
62.5°	116.7
65°	104.5
67.5°	92.8
70°	81.1
72.5°	69.5
75°	59.0
77.5°	47.9
80°	37.9
82.5°	28.0
85°	18.7
87.5°	9.3
90°	0.0

(END OF REPORT)