

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: P600564

Luminaire Tested: 235-90-27K-LL3-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600564
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: 235-90-27K-LL3-UNV-STD-X-X-WHHR-SR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

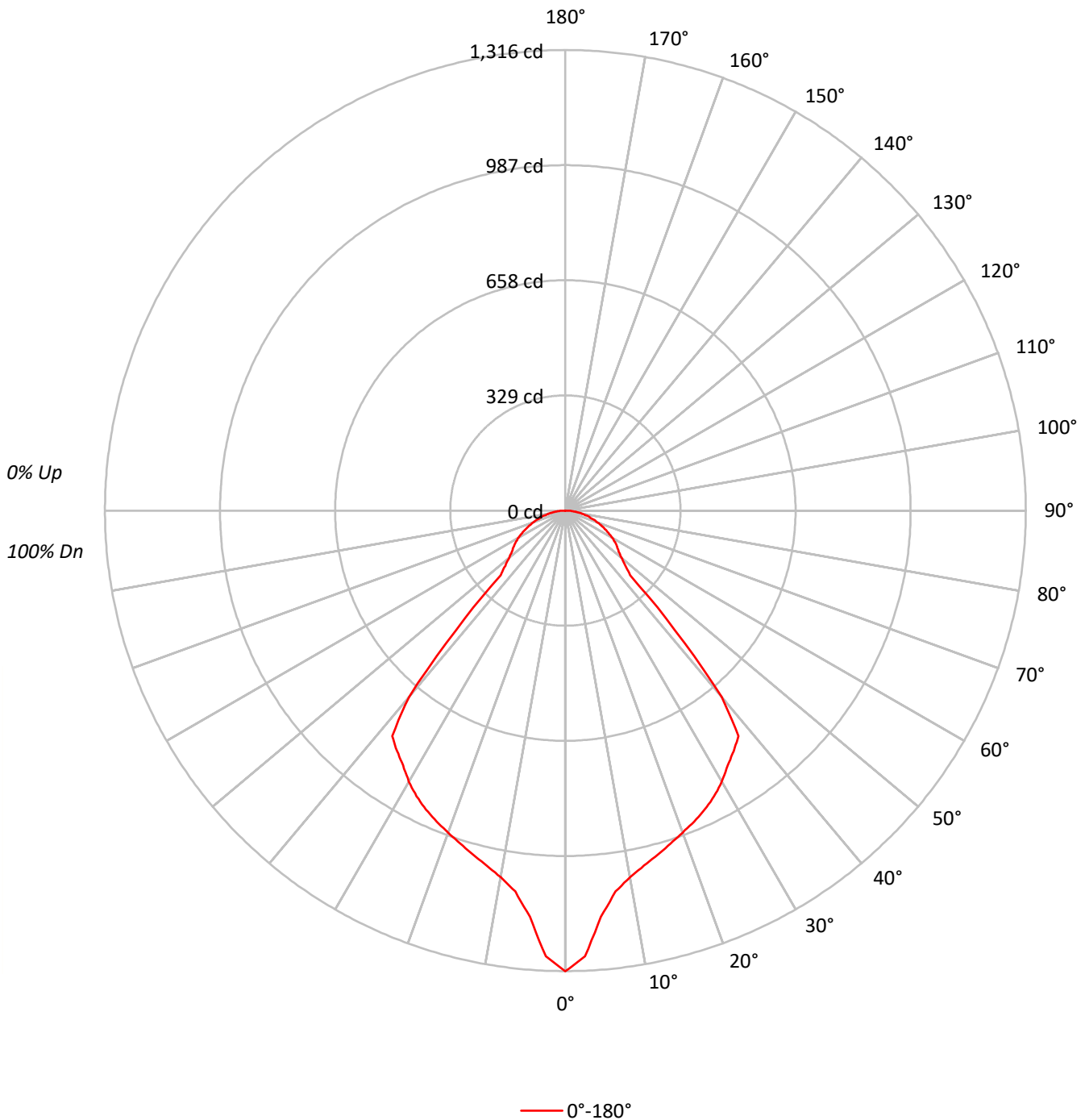
Lumens per Lamp: N/A
Luminaire Lumens: 1999.5 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	10148
5°	9012
10°	8326
15°	8122
20°	8034
25°	8016
30°	7961
35°	7892
40°	6995
45°	2848
50°	2507
55°	2425
60°	2373
65°	2275
70°	2182
75°	2094
80°	2011
85°	1972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2848 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	5.4
10°-20°	287.7	14.4
20°-30°	434.2	21.7
30°-40°	517.7	25.9
40°-50°	267.7	13.4
50°-60°	161.5	8.1
60°-70°	123.7	6.2
70°-80°	74.2	3.7
80°-90°	24.3	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°	830.3	41.5
0°-40°	1348.0	67.4
0°-60°	1777.3	88.9
0°-90°	1999.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1316	
5°	1165	108
15°	1018	288
25°	942	434
35°	839	518
45°	261	268
55°	180	161
65°	125	124
75°	70	74
85°	22	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1316.4
2.5°	1274.6
5°	1164.6
7.5°	1097.7
10°	1063.6
12.5°	1039.2
15°	1017.6
17.5°	998.1
20°	979.3
22.5°	961.9
25°	942.4
27.5°	920.8
30°	894.3
32.5°	863.0
35°	838.6
37.5°	812.8
40°	695.1
42.5°	463.2
45°	261.2
47.5°	232.6
50°	209.0
52.5°	192.2
55°	180.4
57.5°	167.9
60°	153.9
62.5°	139.3
65°	124.7
67.5°	110.7
70°	96.8
72.5°	82.9
75°	70.3
77.5°	57.1
80°	45.3
82.5°	33.4
85°	22.3
87.5°	11.1
90°	0.0

(END OF REPORT)