

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: P600642

Luminaire Tested: 225-90-40K-LL5-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600642
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: 225-90-40K-LL5-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

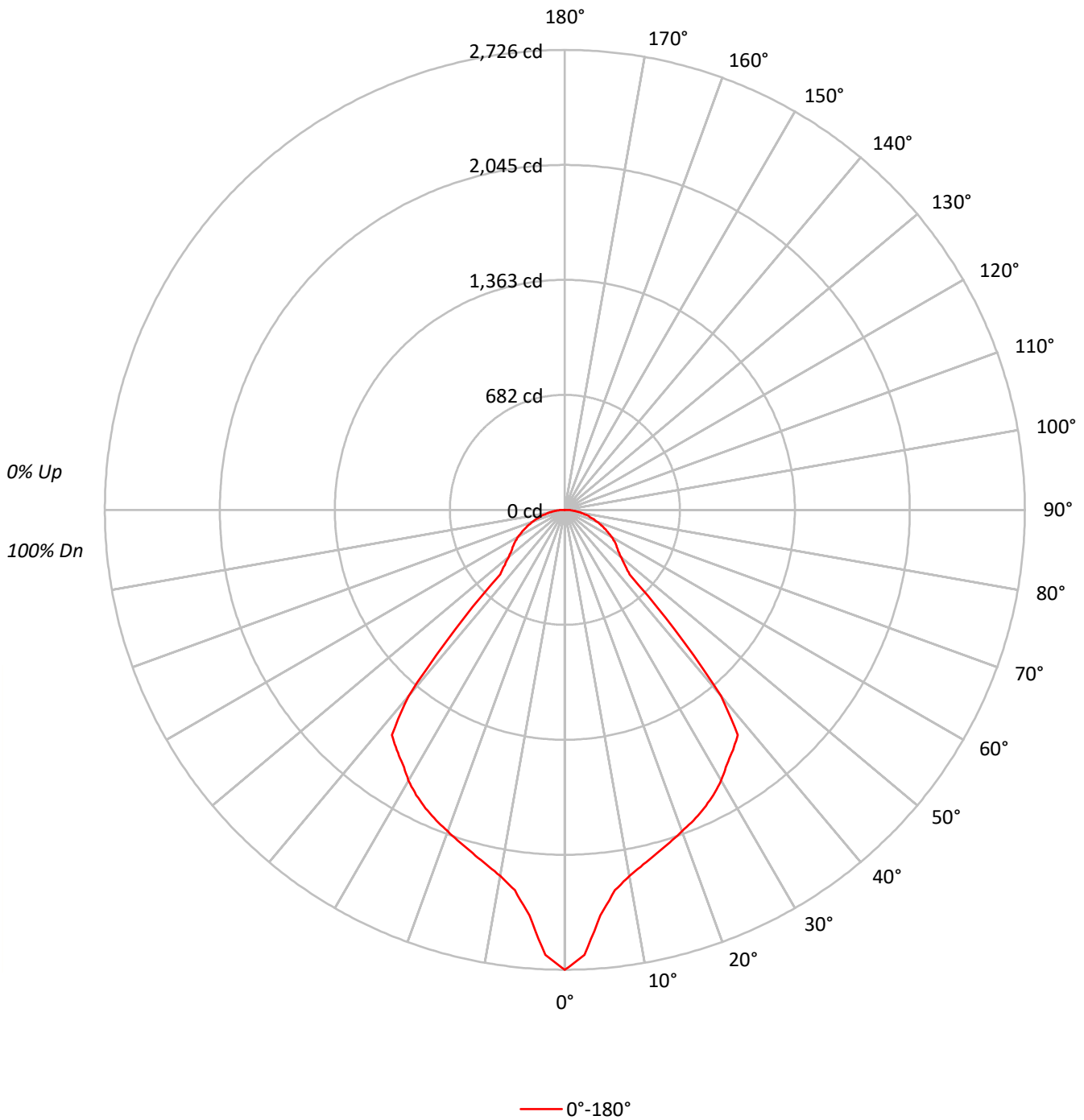
Lumens per Lamp: N/A
Luminaire Lumens: 4141.3 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.6
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°	21018
5°	18665
10°	17244
15°	16820
20°	16639
25°	16602
30°	16488
35°	16345
40°	14488
45°	5898
50°	5191
55°	5021
60°	4915
65°	4710
70°	4519
75°	4340
80°	4164
85°	4086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5898 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	5.4
10°-20°	595.8	14.4
20°-30°	899.2	21.7
30°-40°	1072.3	25.9
40°-50°	554.5	13.4
50°-60°	334.4	8.1
60°-70°	256.3	6.2
70°-80°	153.7	3.7
80°-90°	50.4	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°	1719.6	41.5
0°-40°	2791.9	67.4
0°-60°	3680.8	88.9
0°-90°	4141.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2726	
5°	2412	225
15°	2108	596
25°	1952	899
35°	1737	1072
45°	541	555
55°	374	334
65°	258	256
75°	146	154
85°	46	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2726.4
2.5°	2639.8
5°	2411.9
7.5°	2273.4
10°	2202.8
12.5°	2152.3
15°	2107.5
17.5°	2067.2
20°	2028.2
22.5°	1992.1
25°	1951.8
27.5°	1907.0
30°	1852.2
32.5°	1787.3
35°	1736.8
37.5°	1683.4
40°	1439.7
42.5°	959.3
45°	541.0
47.5°	481.8
50°	432.8
52.5°	398.1
55°	373.6
57.5°	347.7
60°	318.8
62.5°	288.5
65°	258.2
67.5°	229.4
70°	200.5
72.5°	171.7
75°	145.7
77.5°	118.3
80°	93.8
82.5°	69.2
85°	46.2
87.5°	23.1
90°	0.0

(END OF REPORT)