

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: P600709

Luminaire Tested: 215-90-35K-LL4-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-13)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 215-90-35K-LL4-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

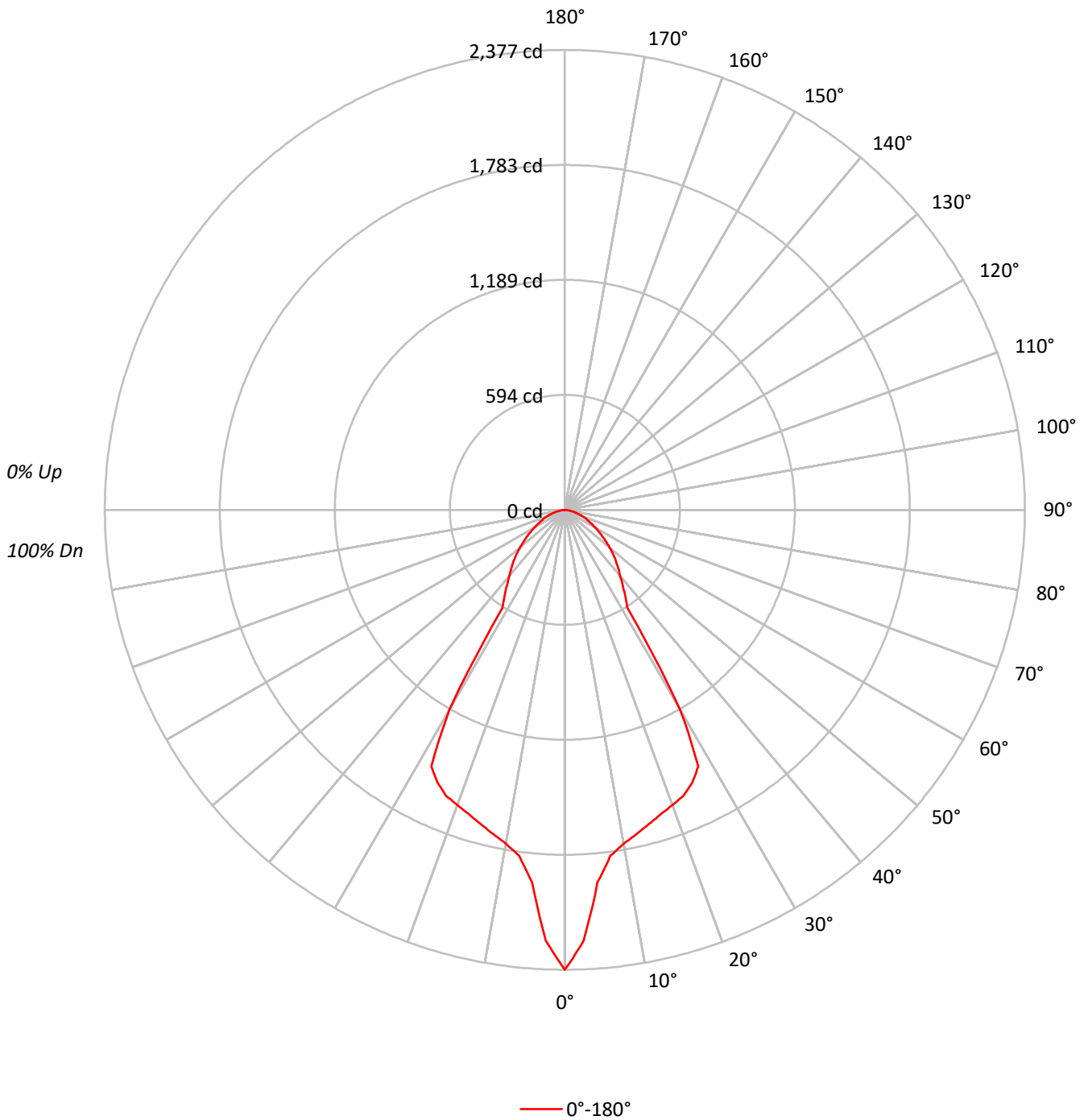
Lumens per Lamp: N/A
Luminaire Lumens: 2437.6 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32577
5°	26593
10°	24382
15°	23851
20°	23685
25°	23530
30°	18816
35°	9085
40°	7961
45°	7229
50°	6418
55°	5639
60°	4934
65°	4313
70°	3767
75°	3177
80°	2210
85°	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7229 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	7.4
10°-20°	475.3	19.5
20°-30°	696.2	28.6
30°-40°	378.4	15.5
40°-50°	287.2	11.8
50°-60°	212.4	8.7
60°-70°	133.5	5.5
70°-80°	63.7	2.6
80°-90°	10.1	0.4
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°	1352.4	55.5
0°-40°	1730.8	71.0
0°-60°	2230.3	91.5
0°-90°	2437.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2437.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2377	
5°	1933	181
15°	1681	475
25°	1556	696
35°	543	378
45°	373	287
55°	236	212
65°	133	133
75°	60	64
85°	5	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2377
2.5°	2230
5°	1933
7.5°	1803
10°	1752
12.5°	1715
15°	1681
17.5°	1649
20°	1624
22.5°	1600
25°	1556
27.5°	1494
30°	1189
32.5°	600
35°	543
37.5°	491
40°	445
42.5°	408
45°	373
47.5°	337
50°	301
52.5°	268
55°	236
57.5°	207
60°	180
62.5°	156
65°	133
67.5°	114
70°	94
72.5°	77
75°	60
77.5°	44
80°	28
82.5°	16
85°	5
87.5°	2
90°	0

(END OF REPORT)