

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: P600619

Luminaire Tested: 235-90-35K-LL6-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600619
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: 235-90-35K-LL6-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

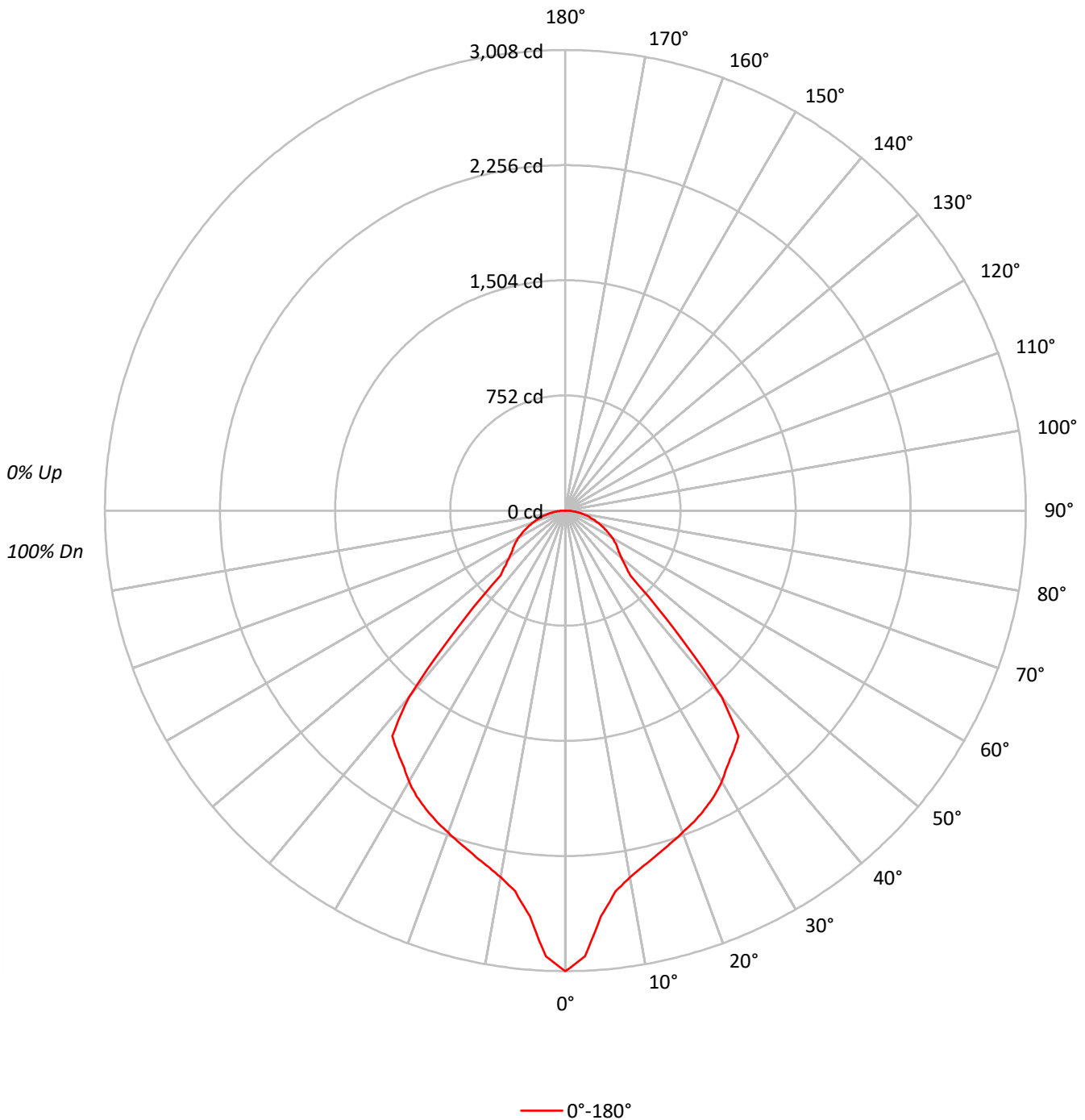
Lumens per Lamp: N/A
Luminaire Lumens: 4569.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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°	23189
5°	20593
10°	19025
15°	18558
20°	18358
25°	18317
30°	18191
35°	18034
40°	15985
45°	6507
50°	5727
55°	5540
60°	5423
65°	5197
70°	4986
75°	4787
80°	4595
85°	4502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6507 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	5.4
10°-20°	657.3	14.4
20°-30°	992.1	21.7
30°-40°	1183.1	25.9
40°-50°	611.8	13.4
50°-60°	369.0	8.1
60°-70°	282.8	6.2
70°-80°	169.6	3.7
80°-90°	55.7	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°	1897.2	41.5
0°-40°	3080.3	67.4
0°-60°	4061.1	88.9
0°-90°	4569.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4569.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3008	
5°	2661	248
15°	2325	657
25°	2153	992
35°	1916	1183
45°	597	612
55°	412	369
65°	285	283
75°	161	170
85°	51	56
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3008.0
2.5°	2912.5
5°	2661.1
7.5°	2508.3
10°	2430.3
12.5°	2374.6
15°	2325.2
17.5°	2280.7
20°	2237.7
22.5°	2197.9
25°	2153.4
27.5°	2104.0
30°	2043.5
32.5°	1971.9
35°	1916.2
37.5°	1857.3
40°	1588.4
42.5°	1058.4
45°	596.8
47.5°	531.6
50°	477.5
52.5°	439.3
55°	412.2
57.5°	383.6
60°	351.7
62.5°	318.3
65°	284.9
67.5°	253.1
70°	221.2
72.5°	189.4
75°	160.7
77.5°	130.5
80°	103.5
82.5°	76.4
85°	50.9
87.5°	25.5
90°	0.0

(END OF REPORT)