

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: P600595

Luminaire Tested: 235-90-30K-LL6-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600595
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: 235-90-30K-LL6-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

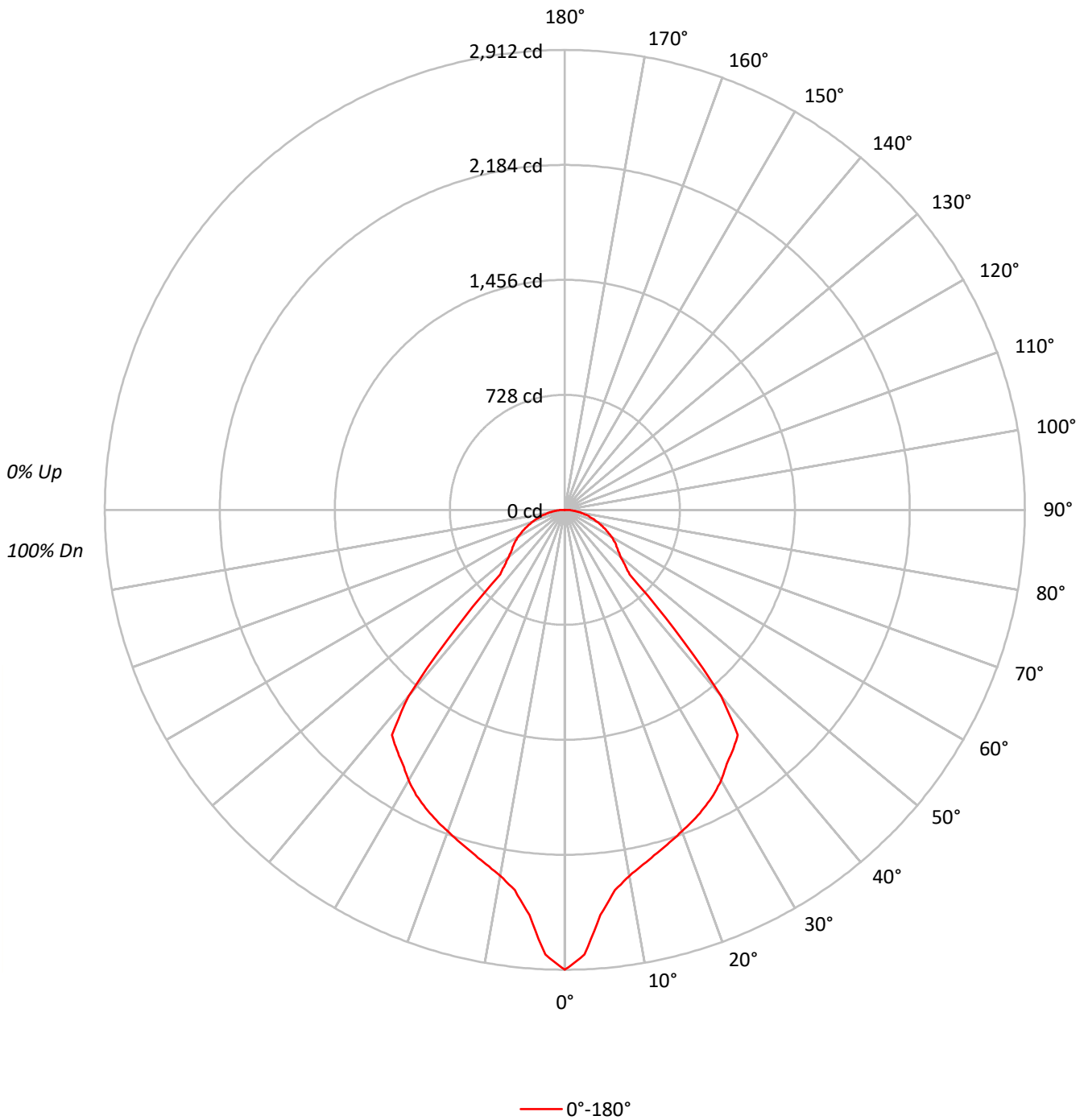
Lumens per Lamp: N/A
Luminaire Lumens: 4422.4 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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										
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	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						100														
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88						88														
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77						77														
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68						68														
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61						61														
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54						54														
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49						49														
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44						44														
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41						41														
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37						37														
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34						34														

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22445
5°	19932
10°	18414
15°	17963
20°	17769
25°	17729
30°	17608
35°	17456
40°	15472
45°	6298
50°	5542
55°	5363
60°	5250
65°	5029
70°	4826
75°	4635
80°	4444
85°	4361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	5.4
10°-20°	636.2	14.4
20°-30°	960.3	21.7
30°-40°	1145.1	25.9
40°-50°	592.2	13.4
50°-60°	357.2	8.1
60°-70°	273.7	6.2
70°-80°	164.1	3.7
80°-90°	53.8	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°	1836.3	41.5
0°-40°	2981.5	67.4
0°-60°	3930.8	88.9
0°-90°	4422.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2912	
5°	2576	240
15°	2251	636
25°	2084	960
35°	1855	1145
45°	578	592
55°	399	357
65°	276	274
75°	156	164
85°	49	54
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2911.5
2.5°	2819.1
5°	2575.7
7.5°	2427.8
10°	2352.3
12.5°	2298.4
15°	2250.7
17.5°	2207.5
20°	2165.9
22.5°	2127.4
25°	2084.3
27.5°	2036.5
30°	1978.0
32.5°	1908.7
35°	1854.8
37.5°	1797.8
40°	1537.4
42.5°	1024.4
45°	577.7
47.5°	514.5
50°	462.1
52.5°	425.2
55°	399.0
57.5°	371.3
60°	340.5
62.5°	308.1
65°	275.7
67.5°	244.9
70°	214.1
72.5°	183.3
75°	155.6
77.5°	126.3
80°	100.1
82.5°	73.9
85°	49.3
87.5°	24.6
90°	0.0

(END OF REPORT)