

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: P600612

Luminaire Tested: 225-90-35K-LL3-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600612
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: 225-90-35K-LL3-UNV-STD-X-X-WHHR-SR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

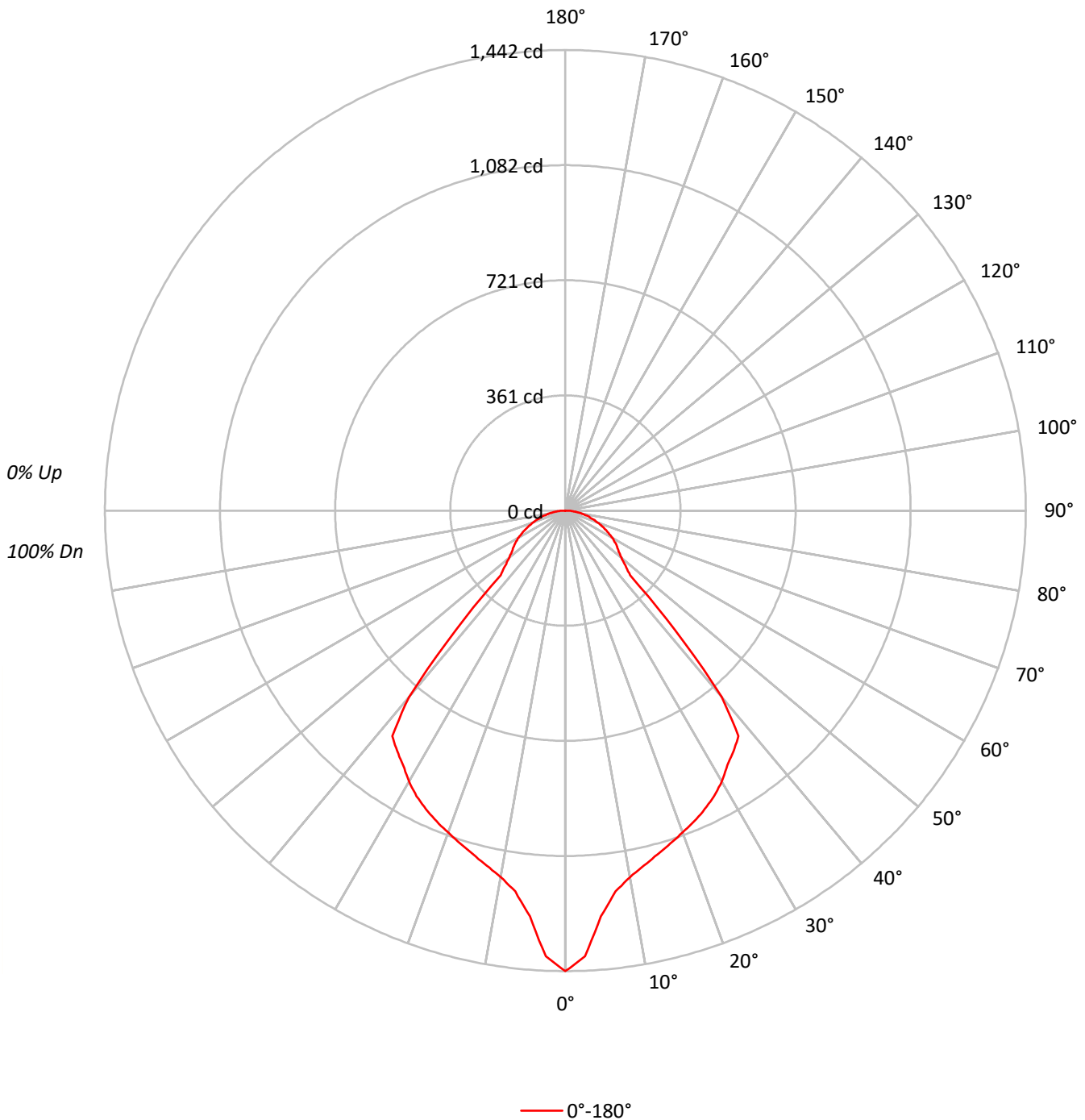
Lumens per Lamp: N/A
Luminaire Lumens: 2190.2 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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										
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																				
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°	11115
5°	9871
10°	9119
15°	8896
20°	8799
25°	8780
30°	8719
35°	8644
40°	7662
45°	3119
50°	2745
55°	2656
60°	2600
65°	2492
70°	2389
75°	2296
80°	2202
85°	2158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	5.4
10°-20°	315.1	14.4
20°-30°	475.5	21.7
30°-40°	567.1	25.9
40°-50°	293.3	13.4
50°-60°	176.9	8.1
60°-70°	135.5	6.2
70°-80°	81.3	3.7
80°-90°	26.7	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°	909.4	41.5
0°-40°	1476.5	67.4
0°-60°	1946.6	88.9
0°-90°	2190.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1442	
5°	1276	119
15°	1115	315
25°	1032	476
35°	918	567
45°	286	293
55°	198	177
65°	137	136
75°	77	81
85°	24	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1441.8
2.5°	1396.1
5°	1275.5
7.5°	1202.3
10°	1164.9
12.5°	1138.2
15°	1114.6
17.5°	1093.2
20°	1072.6
22.5°	1053.5
25°	1032.2
27.5°	1008.5
30°	979.5
32.5°	945.2
35°	918.5
37.5°	890.3
40°	761.4
42.5°	507.3
45°	286.1
47.5°	254.8
50°	228.9
52.5°	210.6
55°	197.6
57.5°	183.9
60°	168.6
62.5°	152.6
65°	136.6
67.5°	121.3
70°	106.0
72.5°	90.8
75°	77.1
77.5°	62.6
80°	49.6
82.5°	36.6
85°	24.4
87.5°	12.2
90°	0.0

(END OF REPORT)