

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: P600731

Luminaire Tested: 215-90-40K-LL3-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600731
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: 215-90-40K-LL3-UNV-STD-X-X-WHHR-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

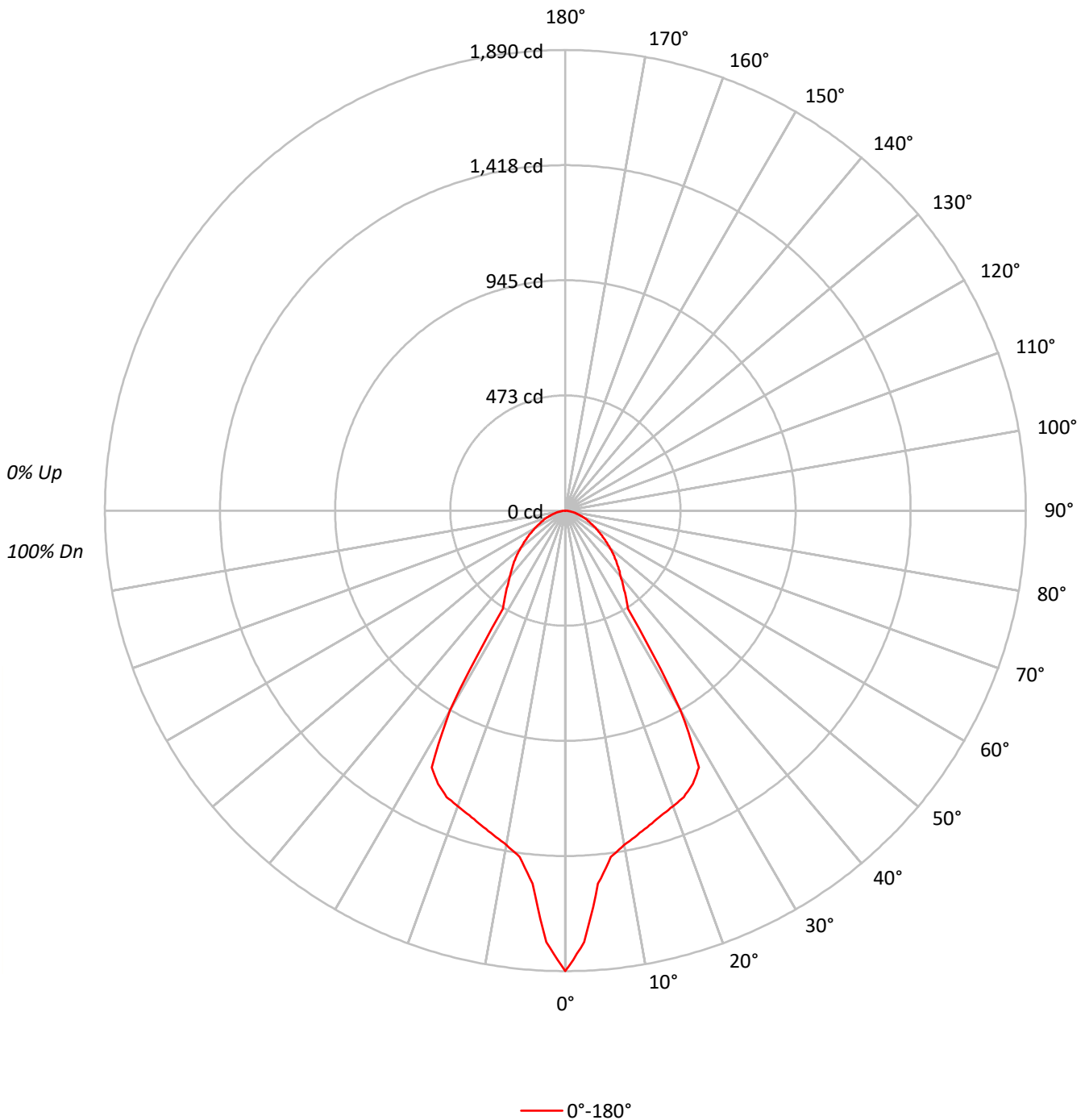
Lumens per Lamp: N/A
Luminaire Lumens: 1937.9 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 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					100															
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90					90															
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80					80															
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72															
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65					65															
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59															
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54					54															
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50					50															
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46					46															
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43															
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40					40															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25898
5°	21141
10°	19383
15°	18962
20°	18830
25°	18706
30°	14960
35°	7223
40°	6330
45°	5747
50°	5102
55°	4483
60°	3922
65°	3428
70°	2993
75°	2526
80°	1760
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5747 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	7.4
10°-20°	377.8	19.5
20°-30°	553.5	28.6
30°-40°	300.8	15.5
40°-50°	228.3	11.8
50°-60°	168.8	8.7
60°-70°	106.1	5.5
70°-80°	50.7	2.6
80°-90°	8.0	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°	1075.2	55.5
0°-40°	1376.0	71.0
0°-60°	1773.1	91.5
0°-90°	1937.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1890	
5°	1537	144
15°	1336	378
25°	1237	553
35°	432	301
45°	296	228
55°	188	169
65°	106	106
75°	48	51
85°	4	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1889.7
2.5°	1772.9
5°	1536.7
7.5°	1433.4
10°	1392.8
12.5°	1363.4
15°	1336.4
17.5°	1311.0
20°	1291.1
22.5°	1272.0
25°	1237.0
27.5°	1187.7
30°	945.3
32.5°	477.0
35°	431.7
37.5°	390.3
40°	353.8
42.5°	324.4
45°	296.5
47.5°	267.9
50°	239.3
52.5°	213.1
55°	187.6
57.5°	164.6
60°	143.1
62.5°	124.0
65°	105.7
67.5°	90.6
70°	74.7
72.5°	61.2
75°	47.7
77.5°	35.0
80°	22.3
82.5°	12.7
85°	4.0
87.5°	1.6
90°	0.0

(END OF REPORT)