

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: P600734

Luminaire Tested: 215-90-40K-LL4-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600734  
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-LL4-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**

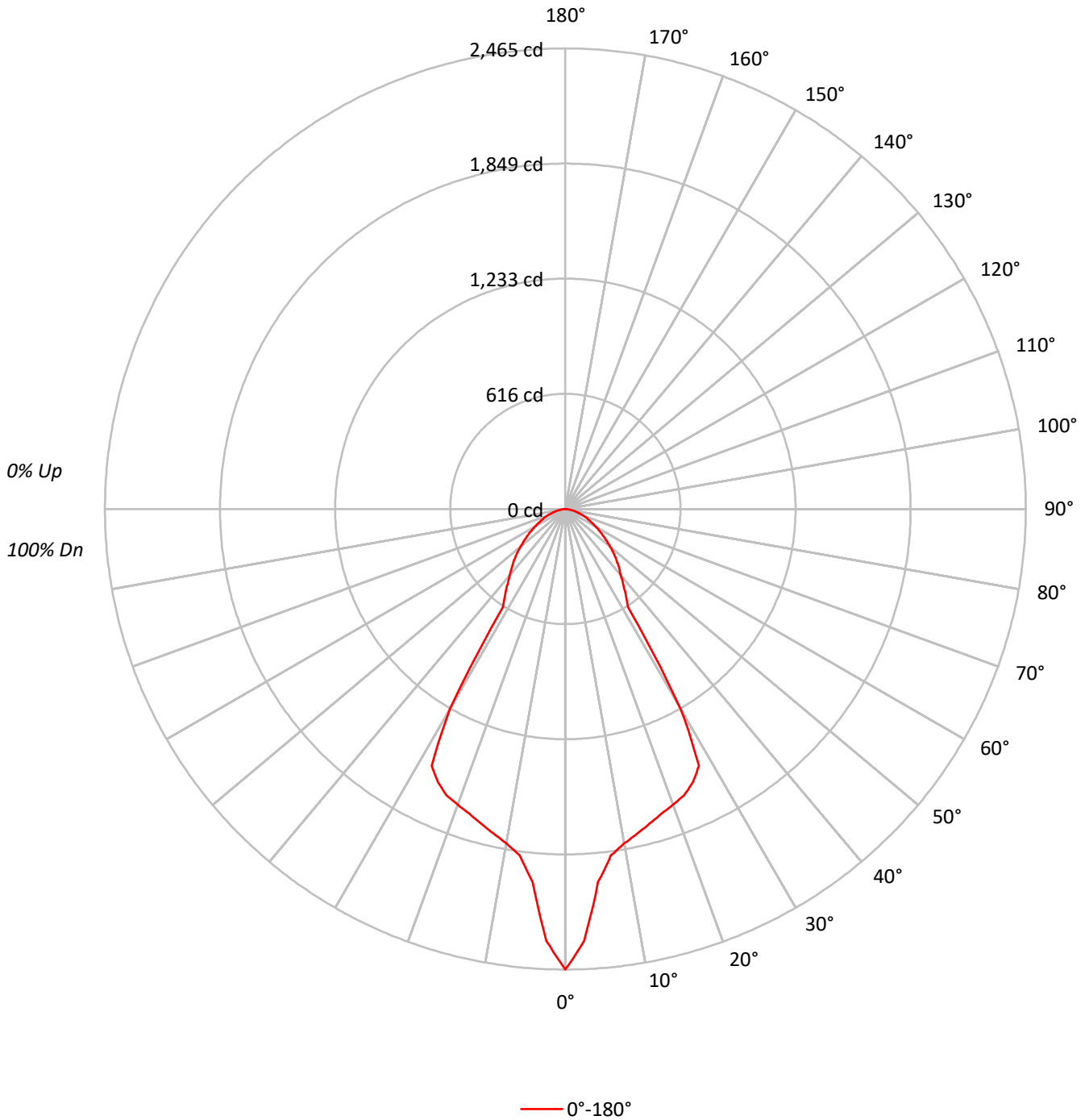
Lumens per Lamp: N/A  
Luminaire Lumens: 2528.2 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

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	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°	33788
5°	27581
10°	25288
15°	24738
20°	24566
25°	24404
30°	19516
35°	9423
40°	8257
45°	7499
50°	6656
55°	5849
60°	5117
65°	4472
70°	3907
75°	3294
80°	2289
85°	818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7499 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.7	7.4
10°-20°	492.9	19.5
20°-30°	722.0	28.6
30°-40°	392.4	15.5
40°-50°	297.8	11.8
50°-60°	220.3	8.7
60°-70°	138.4	5.5
70°-80°	66.1	2.6
80°-90°	10.4	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°	1402.7	55.5
0°-40°	1795.1	71.0
0°-60°	2313.2	91.5
0°-90°	2528.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2528.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2465	
5°	2005	188
15°	1744	493
25°	1614	722
35°	563	392
45°	387	298
55°	245	220
65°	138	138
75°	62	66
85°	5	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2465.4
2.5°	2312.9
5°	2004.8
7.5°	1870.0
10°	1817.1
12.5°	1778.7
15°	1743.5
17.5°	1710.3
20°	1684.4
22.5°	1659.5
25°	1613.8
27.5°	1549.5
30°	1233.2
32.5°	622.3
35°	563.2
37.5°	509.3
40°	461.5
42.5°	423.2
45°	386.9
47.5°	349.5
50°	312.2
52.5°	278.0
55°	244.8
57.5°	214.7
60°	186.7
62.5°	161.8
65°	137.9
67.5°	118.2
70°	97.5
72.5°	79.9
75°	62.2
77.5°	45.6
80°	29.0
82.5°	16.6
85°	5.2
87.5°	2.1
90°	0.0

(END OF REPORT)