

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: P600650

Luminaire Tested: 225-90-40K-LL8-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600650  
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: 225-90-40K-LL8-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**

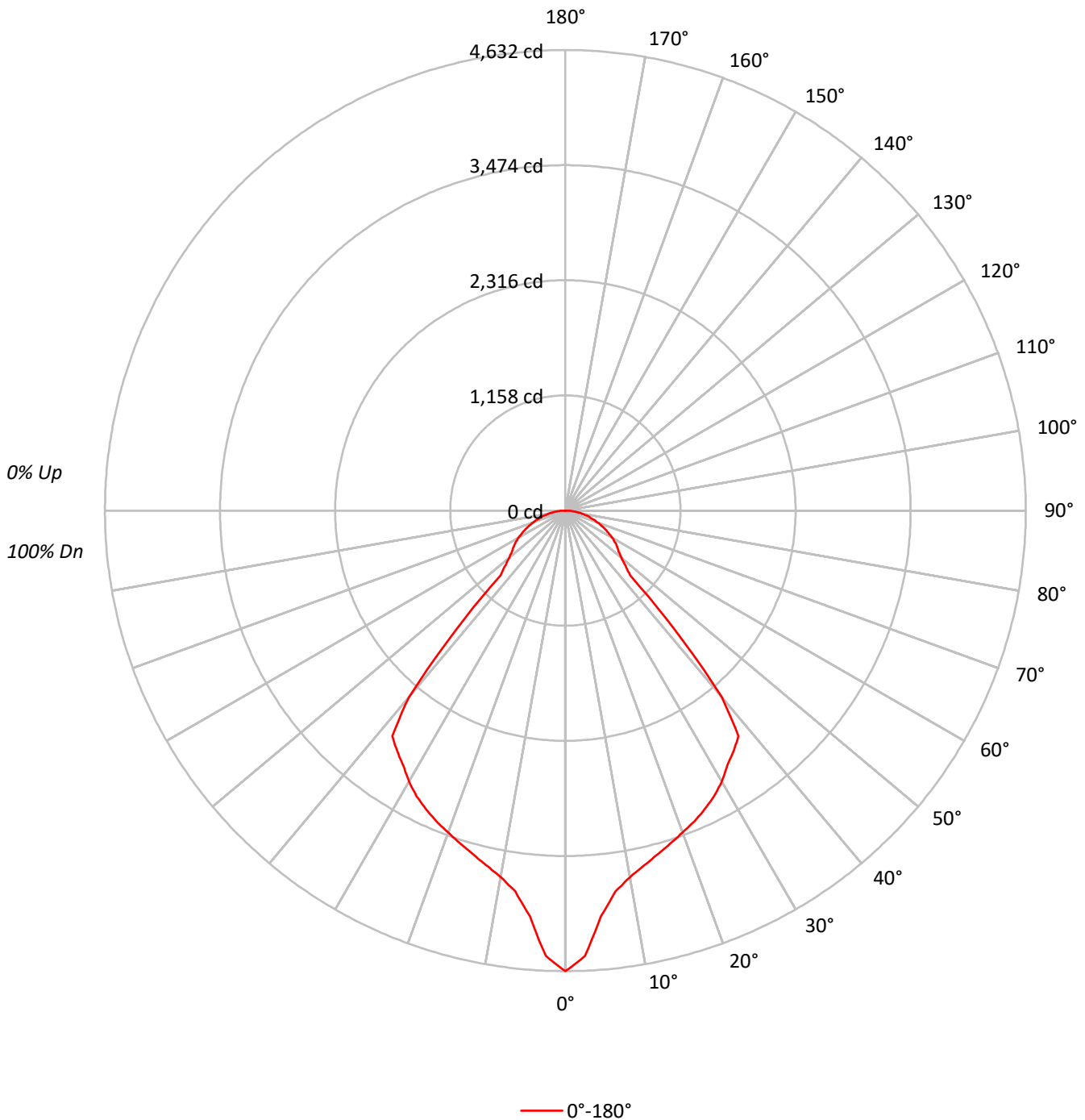
Lumens per Lamp: N/A  
Luminaire Lumens: 7035.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.2  
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	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°	35705
5°	31707
10°	29293
15°	28574
20°	28266
25°	28203
30°	28009
35°	27767
40°	24611
45°	10019
50°	8817
55°	8531
60°	8351
65°	8001
70°	7677
75°	7372
80°	7072
85°	6935

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10019 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.5	5.4
10°-20°	1012.1	14.4
20°-30°	1527.6	21.7
30°-40°	1821.6	25.9
40°-50°	942.0	13.4
50°-60°	568.1	8.1
60°-70°	435.3	6.2
70°-80°	261.1	3.7
80°-90°	85.7	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°	2921.2	41.5
0°-40°	4742.8	67.4
0°-60°	6252.9	88.9
0°-90°	7035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4632	
5°	4097	382
15°	3580	1012
25°	3316	1528
35°	2950	1822
45°	919	942
55°	635	568
65°	439	435
75°	248	261
85°	78	86
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4631.5
2.5°	4484.5
5°	4097.3
7.5°	3862.0
10°	3742.0
12.5°	3656.2
15°	3580.2
17.5°	3511.6
20°	3445.5
22.5°	3384.2
25°	3315.6
27.5°	3239.6
30°	3146.5
32.5°	3036.2
35°	2950.4
37.5°	2859.8
40°	2445.6
42.5°	1629.6
45°	919.0
47.5°	818.5
50°	735.2
52.5°	676.3
55°	634.7
57.5°	590.6
60°	541.6
62.5°	490.1
65°	438.6
67.5°	389.6
70°	340.6
72.5°	291.6
75°	247.5
77.5°	200.9
80°	159.3
82.5°	117.6
85°	78.4
87.5°	39.2
90°	0.0

(END OF REPORT)