

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: P600608

Luminaire Tested: 235-90-35K-LL2-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600608  
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: 235-90-35K-LL2-UNV-STD-X-X-WHHR-FL-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

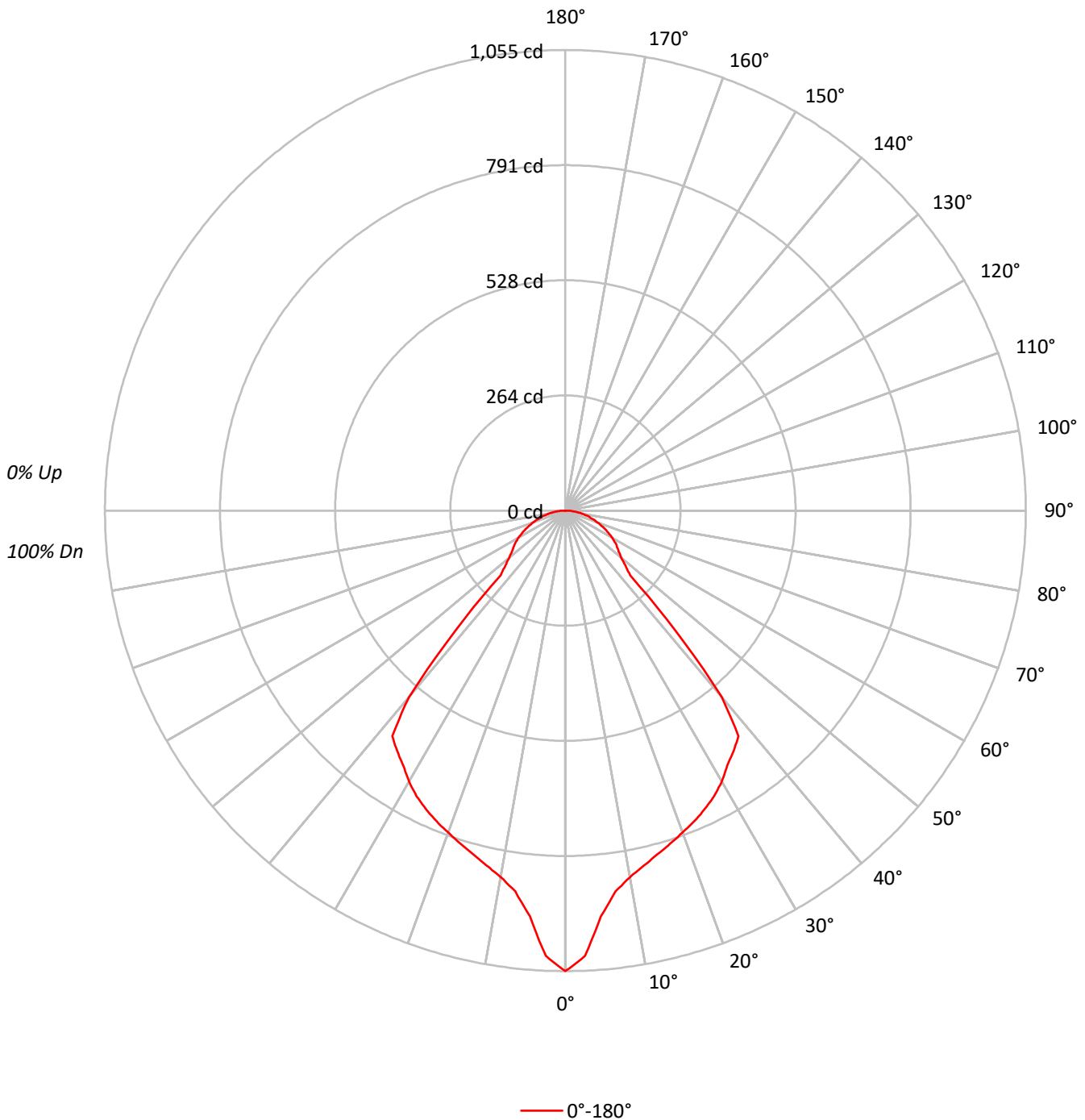
Lumens per Lamp: N/A  
Luminaire Lumens: 1602.2 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.9  
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	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°	8132
5°	7221
10°	6671
15°	6507
20°	6438
25°	6423
30°	6379
35°	6323
40°	5605
45°	2282
50°	2008
55°	1942
60°	1901
65°	1822
70°	1749
75°	1680
80°	1612
85°	1583

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2282 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	5.4
10°-20°	230.5	14.4
20°-30°	347.9	21.7
30°-40°	414.9	25.9
40°-50°	214.5	13.4
50°-60°	129.4	8.1
60°-70°	99.1	6.2
70°-80°	59.5	3.7
80°-90°	19.5	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°	665.3	41.5
0°-40°	1080.1	67.4
0°-60°	1424.0	88.9
0°-90°	1602.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1055	
5°	933	87
15°	815	230
25°	755	348
35°	672	415
45°	209	215
55°	144	129
65°	100	99
75°	56	59
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1054.8
2.5°	1021.3
5°	933.1
7.5°	879.5
10°	852.2
12.5°	832.6
15°	815.3
17.5°	799.7
20°	784.7
22.5°	770.7
25°	755.1
27.5°	737.8
30°	716.6
32.5°	691.5
35°	671.9
37.5°	651.3
40°	557.0
42.5°	371.1
45°	209.3
47.5°	186.4
50°	167.4
52.5°	154.0
55°	144.5
57.5°	134.5
60°	123.3
62.5°	111.6
65°	99.9
67.5°	88.7
70°	77.6
72.5°	66.4
75°	56.4
77.5°	45.8
80°	36.3
82.5°	26.8
85°	17.9
87.5°	8.9
90°	0.0

(END OF REPORT)