

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: P600609

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

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600609  
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-SR-X  
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

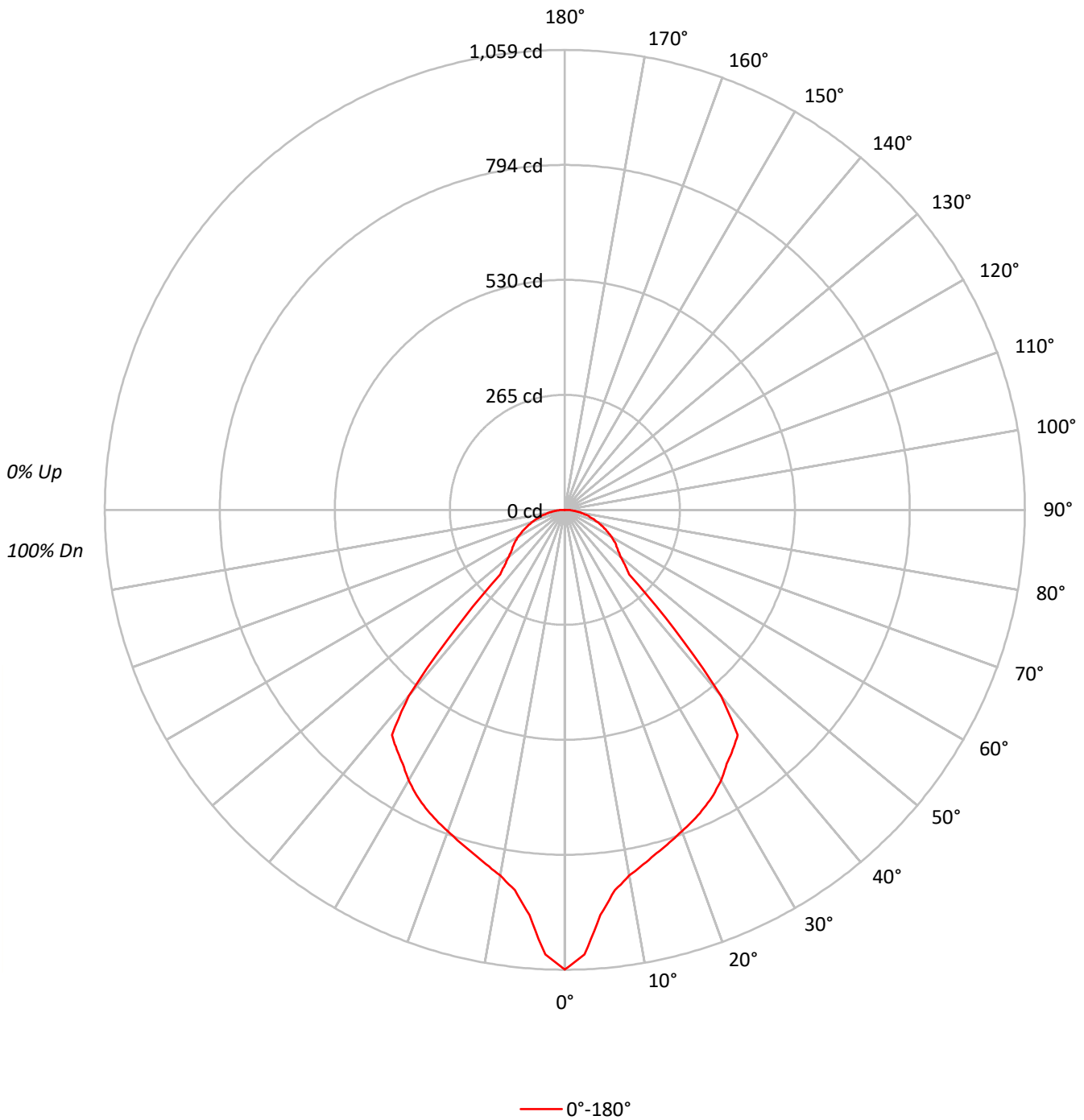
Lumens per Lamp: N/A  
Luminaire Lumens: 1608.0 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

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°	8161
5°	7247
10°	6695
15°	6531
20°	6461
25°	6446
30°	6402
35°	6346
40°	5626
45°	2289
50°	2015
55°	1950
60°	1909
65°	1830
70°	1756
75°	1686
80°	1616
85°	1583

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2289 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	5.4
10°-20°	231.3	14.4
20°-30°	349.1	21.7
30°-40°	416.3	25.9
40°-50°	215.3	13.4
50°-60°	129.9	8.1
60°-70°	99.5	6.2
70°-80°	59.7	3.7
80°-90°	19.6	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°	667.7	41.5
0°-40°	1084.0	67.4
0°-60°	1429.2	88.9
0°-90°	1608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1608.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1059	
5°	936	87
15°	818	231
25°	758	349
35°	674	416
45°	210	215
55°	145	130
65°	100	100
75°	57	60
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1058.6
2.5°	1025.0
5°	936.5
7.5°	882.7
10°	855.3
12.5°	835.7
15°	818.3
17.5°	802.6
20°	787.5
22.5°	773.5
25°	757.8
27.5°	740.4
30°	719.2
32.5°	693.9
35°	674.3
37.5°	653.6
40°	559.0
42.5°	372.5
45°	210.0
47.5°	187.1
50°	168.0
52.5°	154.6
55°	145.1
57.5°	135.0
60°	123.8
62.5°	112.0
65°	100.3
67.5°	89.1
70°	77.9
72.5°	66.7
75°	56.6
77.5°	45.9
80°	36.4
82.5°	26.9
85°	17.9
87.5°	9.0
90°	0.0

(END OF REPORT)