

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979611

Luminaire Tested: PRLX-241-927-LL4-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-241-927-LL4-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

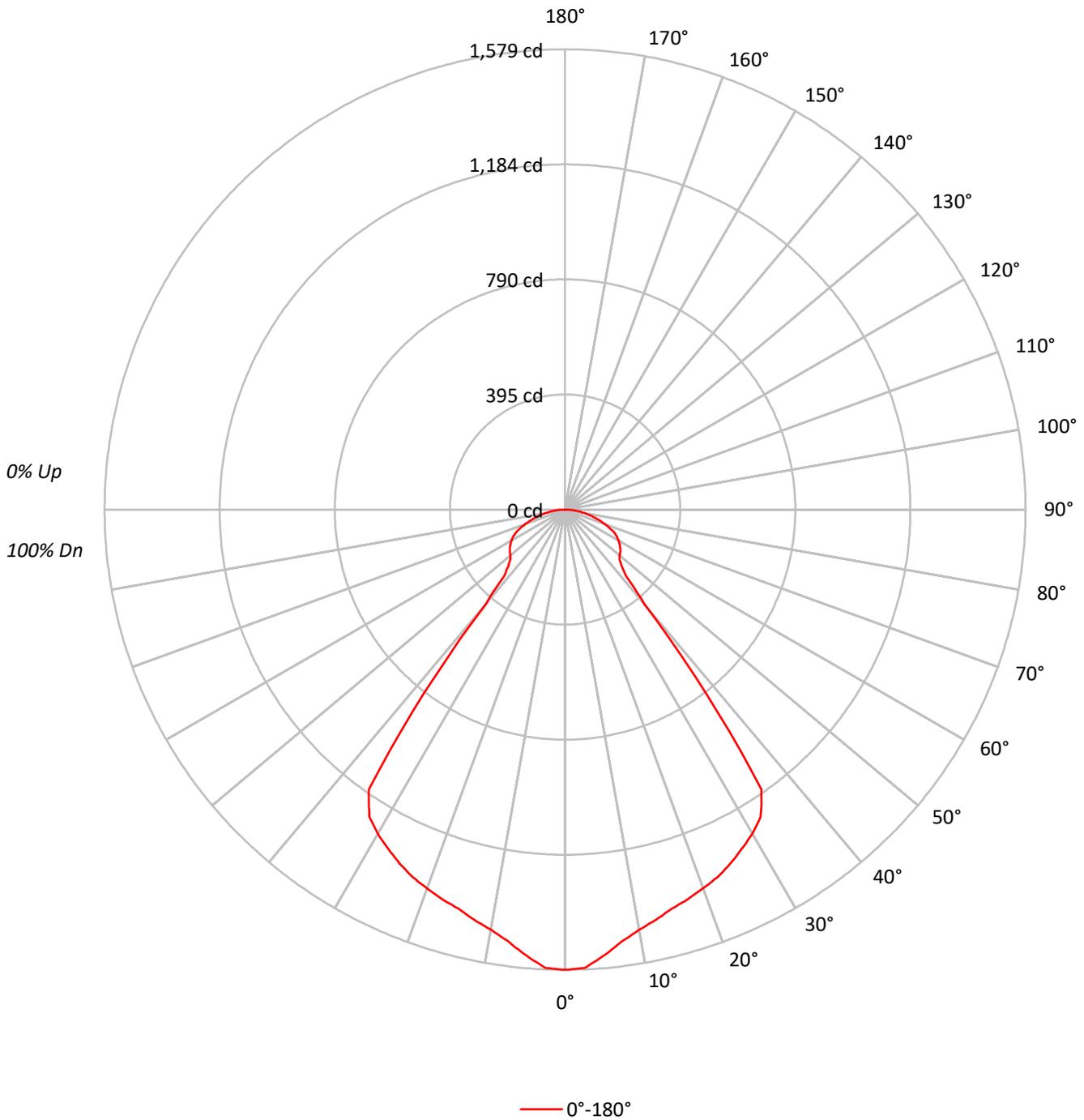
Lumens per Lamp: N/A  
Luminaire Lumens: 2547.1 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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				
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88				
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61				
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55				
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50				
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45				
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42				
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38				
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36				

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	12170
5°	11884
10°	11457
15°	11309
20°	11348
25°	11401
30°	11435
35°	11041
40°	4263
45°	2996
50°	2935
55°	3105
60°	3266
65°	3364
70°	3253
75°	3074
80°	2877
85°	2662

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 65°  
 Luminance: 3364 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	5.7
10°-20°	401.6	15.8
20°-30°	618.0	24.3
30°-40°	628.6	24.7
40°-50°	225.2	8.8
50°-60°	205.9	8.1
60°-70°	179.9	7.1
70°-80°	109.5	4.3
80°-90°	34.4	1.4
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°	1163.7	45.7
0°-40°	1792.2	70.4
0°-60°	2223.4	87.3
0°-90°	2547.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2547.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1579	
5°	1536	144
15°	1417	402
25°	1340	618
35°	1173	629
45°	275	225
55°	231	206
65°	184	180
75°	103	109
85°	30	34
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1578.6
2.5°	1573.2
5°	1535.7
7.5°	1493.7
10°	1463.6
12.5°	1440.8
15°	1417.0
17.5°	1401.5
20°	1383.2
22.5°	1365.0
25°	1340.3
27.5°	1312.9
30°	1284.6
32.5°	1249.0
35°	1173.2
37.5°	794.3
40°	423.6
42.5°	308.6
45°	274.8
47.5°	253.8
50°	244.7
52.5°	238.3
55°	231.0
57.5°	221.9
60°	211.8
62.5°	200.0
65°	184.4
67.5°	164.3
70°	144.3
72.5°	123.3
75°	103.2
77.5°	84.0
80°	64.8
82.5°	47.5
85°	30.1
87.5°	16.4
90°	0.0

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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.39	15.72	14.76	16.03	16.34	14.39	15.72	14.76	16.03	16.34
	3H	16.55	17.74	16.93	18.07	18.43	16.55	17.74	16.93	18.07	18.43
	4H	17.33	18.45	17.74	18.80	19.18	17.33	18.45	17.74	18.80	19.18
	6H	17.92	18.95	18.34	19.32	19.71	17.92	18.95	18.34	19.32	19.71
	8H	18.12	19.10	18.55	19.49	19.89	18.12	19.10	18.55	19.49	19.89
	12H	18.26	19.20	18.70	19.58	20.01	18.26	19.20	18.70	19.58	20.01
4H	2H	15.14	16.25	15.54	16.60	16.99	15.14	16.25	15.54	16.60	16.99
	3H	17.46	18.39	17.87	18.79	19.19	17.46	18.39	17.87	18.79	19.19
	4H	18.36	19.19	18.79	19.61	20.05	18.36	19.19	18.79	19.61	20.05
	6H	19.07	19.79	19.53	20.24	20.70	19.07	19.79	19.53	20.24	20.70
	8H	19.32	20.00	19.79	20.44	20.91	19.32	20.00	19.79	20.44	20.91
	12H	19.51	20.11	19.99	20.59	21.06	19.51	20.11	19.99	20.59	21.06
8H	4H	18.68	19.36	19.15	19.80	20.27	18.68	19.36	19.15	19.80	20.27
	6H	19.53	20.09	20.03	20.58	21.06	19.53	20.09	20.03	20.58	21.06
	8H	19.87	20.37	20.39	20.88	21.37	19.87	20.37	20.39	20.88	21.37
	12H	20.15	20.59	20.67	21.08	21.65	20.15	20.59	20.67	21.08	21.65
12H	4H	18.71	19.31	19.19	19.79	20.26	18.71	19.31	19.19	19.79	20.26
	6H	19.60	20.09	20.12	20.61	21.10	19.60	20.09	20.12	20.61	21.10
	8H	20.00	20.43	20.52	20.93	21.50	20.00	20.43	20.52	20.93	21.50