

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: P979601

Luminaire Tested: PRLX-241-927-LL3-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979601  
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-LL3-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**

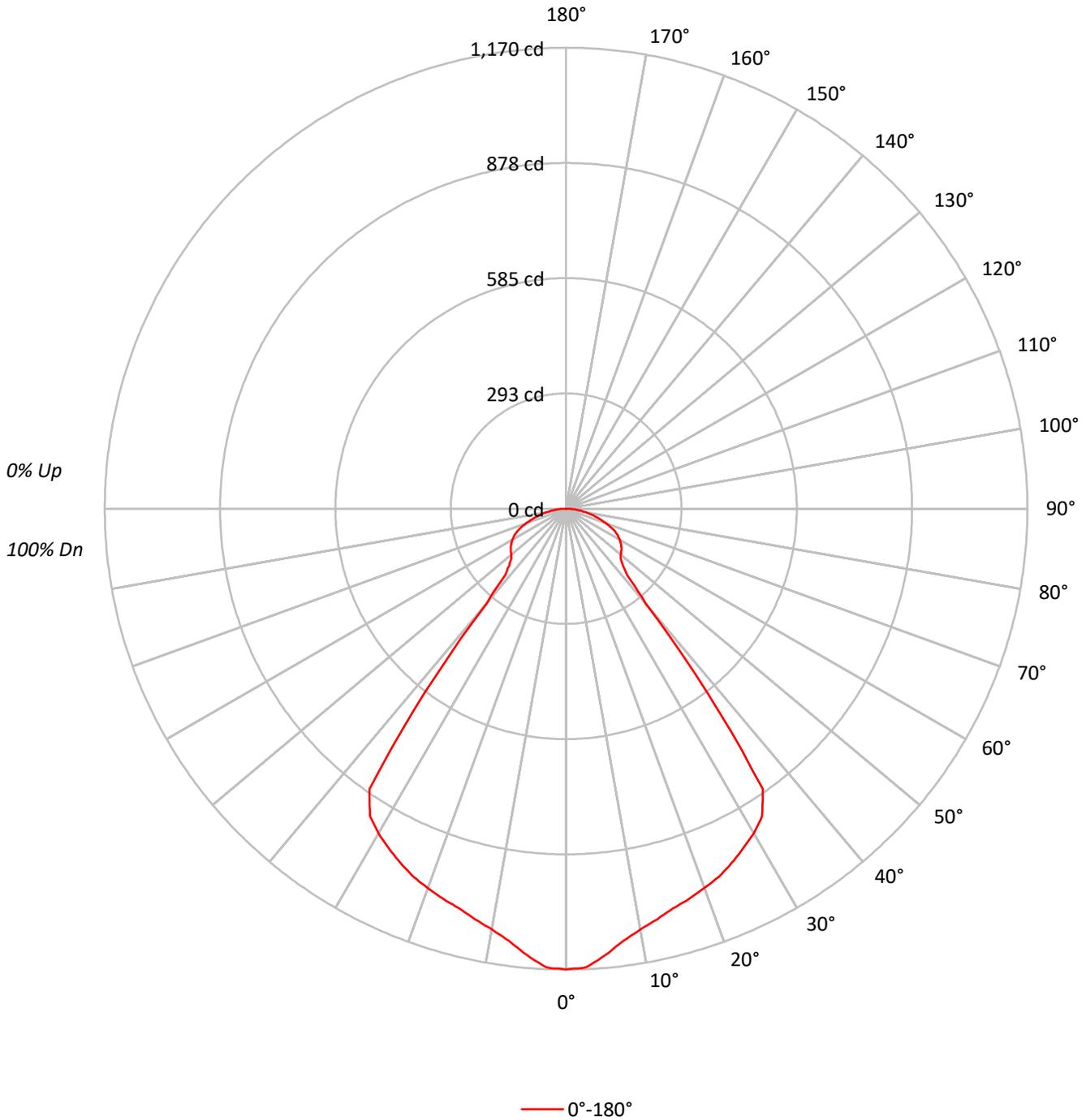
Lumens per Lamp: N/A  
Luminaire Lumens: 1887.0 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 15  
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	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°	9016
5°	8804
10°	8488
15°	8378
20°	8407
25°	8446
30°	8472
35°	8180
40°	3159
45°	2220
50°	2174
55°	2300
60°	2419
65°	2492
70°	2410
75°	2276
80°	2131
85°	1972

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 65°  
 Luminance: 2492 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.8	5.7
10°-20°	297.5	15.8
20°-30°	457.8	24.3
30°-40°	465.7	24.7
40°-50°	166.8	8.8
50°-60°	152.6	8.1
60°-70°	133.3	7.1
70°-80°	81.1	4.3
80°-90°	25.5	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°	862.1	45.7
0°-40°	1327.8	70.4
0°-60°	1647.2	87.3
0°-90°	1887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1170	
5°	1138	107
15°	1050	298
25°	993	458
35°	869	466
45°	204	167
55°	171	153
65°	137	133
75°	76	81
85°	22	25
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1169.5
2.5°	1165.5
5°	1137.7
7.5°	1106.6
10°	1084.3
12.5°	1067.4
15°	1049.8
17.5°	1038.3
20°	1024.8
22.5°	1011.3
25°	993.0
27.5°	972.7
30°	951.7
32.5°	925.3
35°	869.2
37.5°	588.5
40°	313.9
42.5°	228.6
45°	203.6
47.5°	188.0
50°	181.3
52.5°	176.5
55°	171.1
57.5°	164.4
60°	156.9
62.5°	148.1
65°	136.6
67.5°	121.8
70°	106.9
72.5°	91.3
75°	76.4
77.5°	62.2
80°	48.0
82.5°	35.2
85°	22.3
87.5°	12.2
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	13.35	14.68	13.72	14.99	15.30	13.35	14.68	13.72	14.99	15.30
	3H	15.51	16.70	15.89	17.03	17.39	15.51	16.70	15.89	17.03	17.39
	4H	16.29	17.40	16.69	17.75	18.14	16.29	17.40	16.69	17.75	18.14
	6H	16.88	17.91	17.29	18.28	18.67	16.88	17.91	17.29	18.28	18.67
	8H	17.08	18.06	17.51	18.45	18.85	17.08	18.06	17.51	18.45	18.85
	12H	17.22	18.15	17.65	18.54	18.97	17.22	18.15	17.65	18.54	18.97
4H	2H	14.10	15.21	14.50	15.56	15.94	14.10	15.21	14.50	15.56	15.94
	3H	16.42	17.34	16.83	17.75	18.15	16.42	17.34	16.83	17.75	18.15
	4H	17.31	18.15	17.75	18.57	19.01	17.31	18.15	17.75	18.57	19.01
	6H	18.03	18.75	18.49	19.20	19.66	18.03	18.75	18.49	19.20	19.66
	8H	18.28	18.95	18.74	19.40	19.87	18.28	18.95	18.74	19.40	19.87
	12H	18.46	19.06	18.95	19.55	20.02	18.46	19.06	18.95	19.55	20.02
8H	4H	17.64	18.31	18.10	18.76	19.23	17.64	18.31	18.10	18.76	19.23
	6H	18.49	19.04	18.99	19.54	20.02	18.49	19.04	18.99	19.54	20.02
	8H	18.83	19.32	19.35	19.84	20.33	18.83	19.32	19.35	19.84	20.33
	12H	19.11	19.54	19.62	20.04	20.61	19.11	19.54	19.62	20.04	20.61
12H	4H	17.66	18.26	18.15	18.75	19.22	17.66	18.26	18.15	18.75	19.22
	6H	18.55	19.05	19.07	19.56	20.05	18.55	19.05	19.07	19.56	20.05
	8H	18.96	19.39	19.47	19.88	20.45	18.96	19.39	19.47	19.88	20.45