

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: P979403

Luminaire Tested: PRLX-240-930-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-930-LL7-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

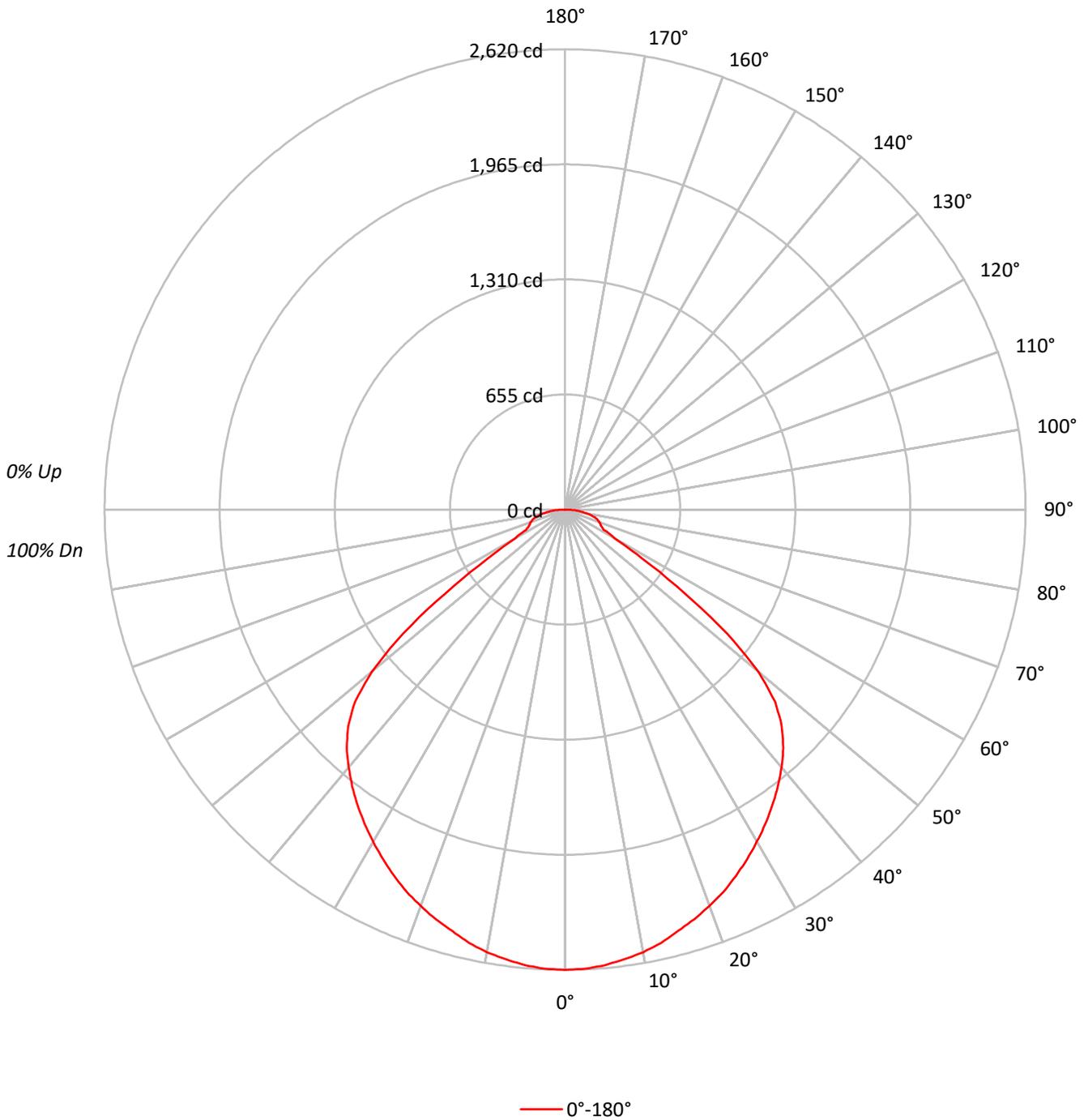
Lumens per Lamp: N/A  
Luminaire Lumens: 5864.2 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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	104	101	98	100	98	95	96	94	92	93	91	89	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°
0°	26386
5°	26312
10°	26163
15°	25891
20°	25726
25°	25561
30°	25382
35°	25272
40°	25175
45°	24831
50°	22487
55°	14613
60°	6597
65°	5418
70°	6126
75°	6820
80°	7150
85°	7348

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24831 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.0	4.2
10°-20°	701.8	12.0
20°-30°	1060.5	18.1
30°-40°	1286.9	21.9
40°-50°	1326.8	22.6
50°-60°	752.5	12.8
60°-70°	238.0	4.1
70°-80°	181.6	3.1
80°-90°	69.2	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°	2009.2	34.3
0°-40°	3296.2	56.2
0°-60°	5375.4	91.7
0°-90°	5864.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5864.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2620	
5°	2603	247
15°	2484	702
25°	2301	1060
35°	2056	1287
45°	1744	1327
55°	832	752
65°	227	238
75°	175	182
85°	64	69
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2620.5
2.5°	2616.7
5°	2603.2
7.5°	2582.0
10°	2558.9
12.5°	2526.1
15°	2483.7
17.5°	2445.2
20°	2400.9
22.5°	2354.6
25°	2300.7
27.5°	2242.9
30°	2183.1
32.5°	2121.5
35°	2056.0
37.5°	1988.5
40°	1915.3
42.5°	1838.2
45°	1743.8
47.5°	1620.5
50°	1435.5
52.5°	1163.8
55°	832.4
57.5°	522.2
60°	327.6
62.5°	248.6
65°	227.4
67.5°	217.7
70°	208.1
72.5°	194.6
75°	175.3
77.5°	152.2
80°	123.3
82.5°	94.4
85°	63.6
87.5°	34.7
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	18.01	19.48	18.37	19.79	20.11	18.01	19.48	18.37	19.79	20.11
	3H	18.90	20.21	19.28	20.53	20.90	18.90	20.21	19.28	20.53	20.90
	4H	19.51	20.73	19.91	21.08	21.46	19.51	20.73	19.91	21.08	21.46
	6H	20.11	21.23	20.52	21.60	21.99	20.11	21.23	20.52	21.60	21.99
	8H	20.34	21.41	20.77	21.80	22.20	20.34	21.41	20.77	21.80	22.20
	12H	20.53	21.55	20.96	21.93	22.36	20.53	21.55	20.96	21.93	22.36
4H	2H	18.13	19.35	18.53	19.70	20.08	18.13	19.35	18.53	19.70	20.08
	3H	19.37	20.37	19.79	20.78	21.18	19.37	20.37	19.79	20.78	21.18
	4H	20.20	21.09	20.63	21.51	21.95	20.20	21.09	20.63	21.51	21.95
	6H	21.00	21.78	21.46	22.23	22.69	21.00	21.78	21.46	22.23	22.69
	8H	21.32	22.05	21.79	22.50	22.96	21.32	22.05	21.79	22.50	22.96
	12H	21.58	22.23	22.07	22.71	23.19	21.58	22.23	22.07	22.71	23.19
8H	4H	20.51	21.24	20.98	21.69	22.15	20.51	21.24	20.98	21.69	22.15
	6H	21.48	22.09	21.98	22.58	23.06	21.48	22.09	21.98	22.58	23.06
	8H	21.90	22.45	22.42	22.96	23.45	21.90	22.45	22.42	22.96	23.45
	12H	22.27	22.76	22.78	23.26	23.82	22.27	22.76	22.78	23.26	23.82
12H	4H	20.55	21.21	21.04	21.69	22.16	20.55	21.21	21.04	21.69	22.16
	6H	21.56	22.11	22.08	22.62	23.11	21.56	22.11	22.08	22.62	23.11
	8H	22.05	22.55	22.56	23.04	23.61	22.05	22.55	22.56	23.04	23.61