

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: P979383

Luminaire Tested: PRLX-240-930-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979383  
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-LL5-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: -

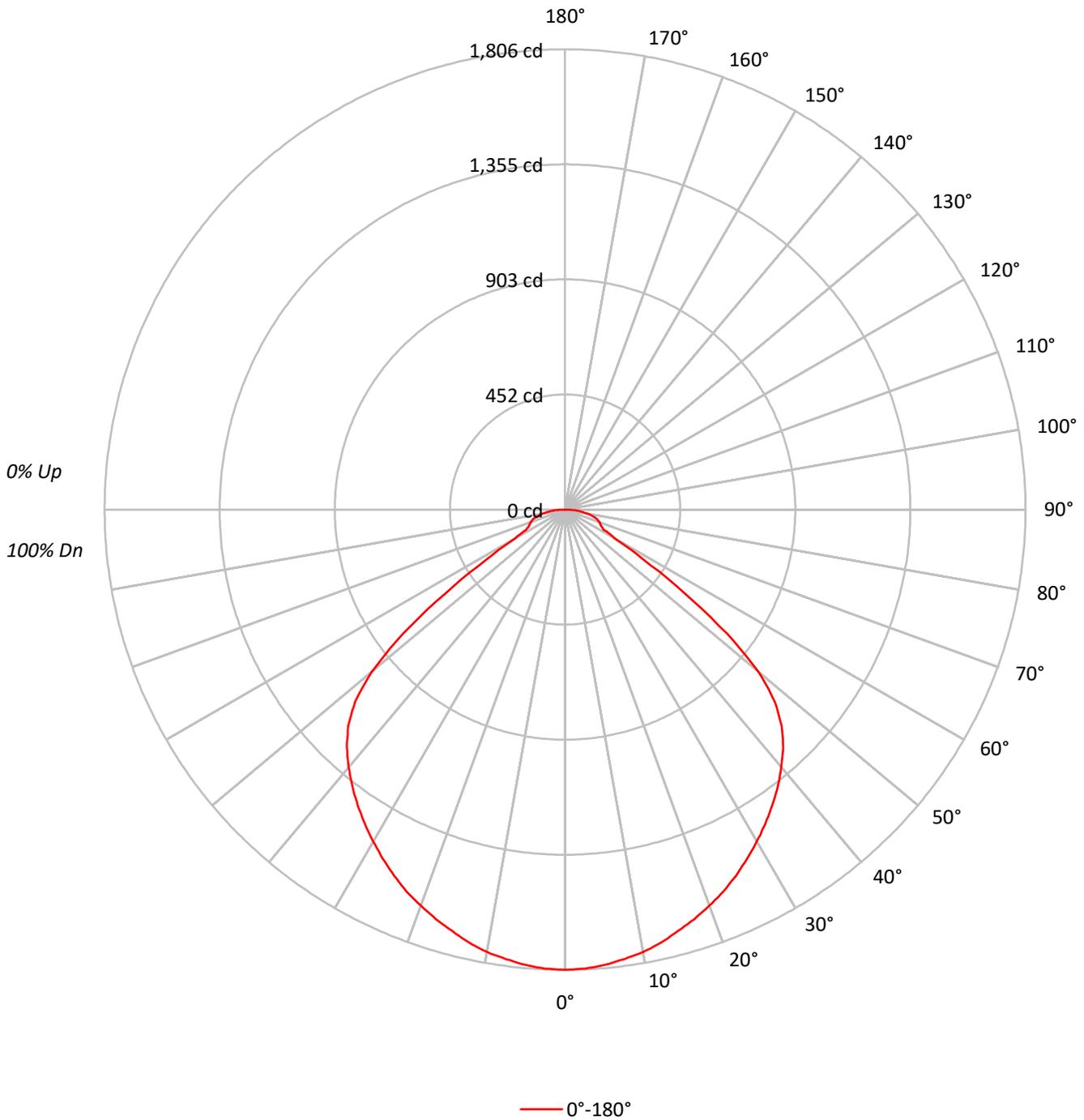
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4040.8 lumens  
Efficiency: N/A  
Efficacy: 137.0 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): 29.5  
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																		
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	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°	18182
5°	18130
10°	18028
15°	17840
20°	17726
25°	17613
30°	17490
35°	17414
40°	17346
45°	17110
50°	15494
55°	10069
60°	4545
65°	3733
70°	4222
75°	4700
80°	4929
85°	5060

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17110 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.2	4.2
10°-20°	483.5	12.0
20°-30°	730.7	18.1
30°-40°	886.8	21.9
40°-50°	914.2	22.6
50°-60°	518.5	12.8
60°-70°	164.0	4.1
70°-80°	125.1	3.1
80°-90°	47.7	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°	1384.5	34.3
0°-40°	2271.2	56.2
0°-60°	3703.9	91.7
0°-90°	4040.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1806	
5°	1794	170
15°	1711	484
25°	1585	731
35°	1417	887
45°	1202	914
55°	574	518
65°	157	164
75°	121	125
85°	44	48
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1805.7
2.5°	1803.0
5°	1793.7
7.5°	1779.1
10°	1763.2
12.5°	1740.6
15°	1711.4
17.5°	1684.9
20°	1654.3
22.5°	1622.5
25°	1585.3
27.5°	1545.5
30°	1504.3
32.5°	1461.8
35°	1416.7
37.5°	1370.2
40°	1319.7
42.5°	1266.6
45°	1201.6
47.5°	1116.6
50°	989.1
52.5°	801.9
55°	573.6
57.5°	359.8
60°	225.7
62.5°	171.3
65°	156.7
67.5°	150.0
70°	143.4
72.5°	134.1
75°	120.8
77.5°	104.9
80°	85.0
82.5°	65.1
85°	43.8
87.5°	23.9
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	16.71	18.18	17.08	18.50	18.81	16.71	18.18	17.08	18.50	18.81
	3H	17.61	18.91	17.98	19.24	19.60	17.61	18.91	17.98	19.24	19.60
	4H	18.21	19.43	18.61	19.78	20.16	18.21	19.43	18.61	19.78	20.16
	6H	18.81	19.94	19.23	20.30	20.70	18.81	19.94	19.23	20.30	20.70
	8H	19.05	20.12	19.48	20.51	20.91	19.05	20.12	19.48	20.51	20.91
	12H	19.24	20.26	19.67	20.64	21.07	19.24	20.26	19.67	20.64	21.07
4H	2H	16.84	18.06	17.24	18.41	18.79	16.84	18.06	17.24	18.41	18.79
	3H	18.08	19.08	18.49	19.48	19.88	18.08	19.08	18.49	19.48	19.88
	4H	18.90	19.80	19.34	20.22	20.66	18.90	19.80	19.34	20.22	20.66
	6H	19.71	20.49	20.17	20.93	21.39	19.71	20.49	20.17	20.93	21.39
	8H	20.03	20.76	20.49	21.20	21.67	20.03	20.76	20.49	21.20	21.67
	12H	20.29	20.94	20.77	21.42	21.89	20.29	20.94	20.77	21.42	21.89
8H	4H	19.22	19.95	19.68	20.39	20.86	19.22	19.95	19.68	20.39	20.86
	6H	20.19	20.79	20.69	21.29	21.77	20.19	20.79	20.69	21.29	21.77
	8H	20.61	21.16	21.12	21.67	22.16	20.61	21.16	21.12	21.67	22.16
	12H	20.98	21.47	21.49	21.96	22.53	20.98	21.47	21.49	21.96	22.53
12H	4H	19.26	19.91	19.74	20.39	20.86	19.26	19.91	19.74	20.39	20.86
	6H	20.27	20.82	20.78	21.33	21.82	20.27	20.82	20.78	21.33	21.82
	8H	20.76	21.26	21.27	21.75	22.31	20.76	21.26	21.27	21.75	22.31