

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: P980021

Luminaire Tested: PRLX-242-930-LL5-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-242-930-LL5-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

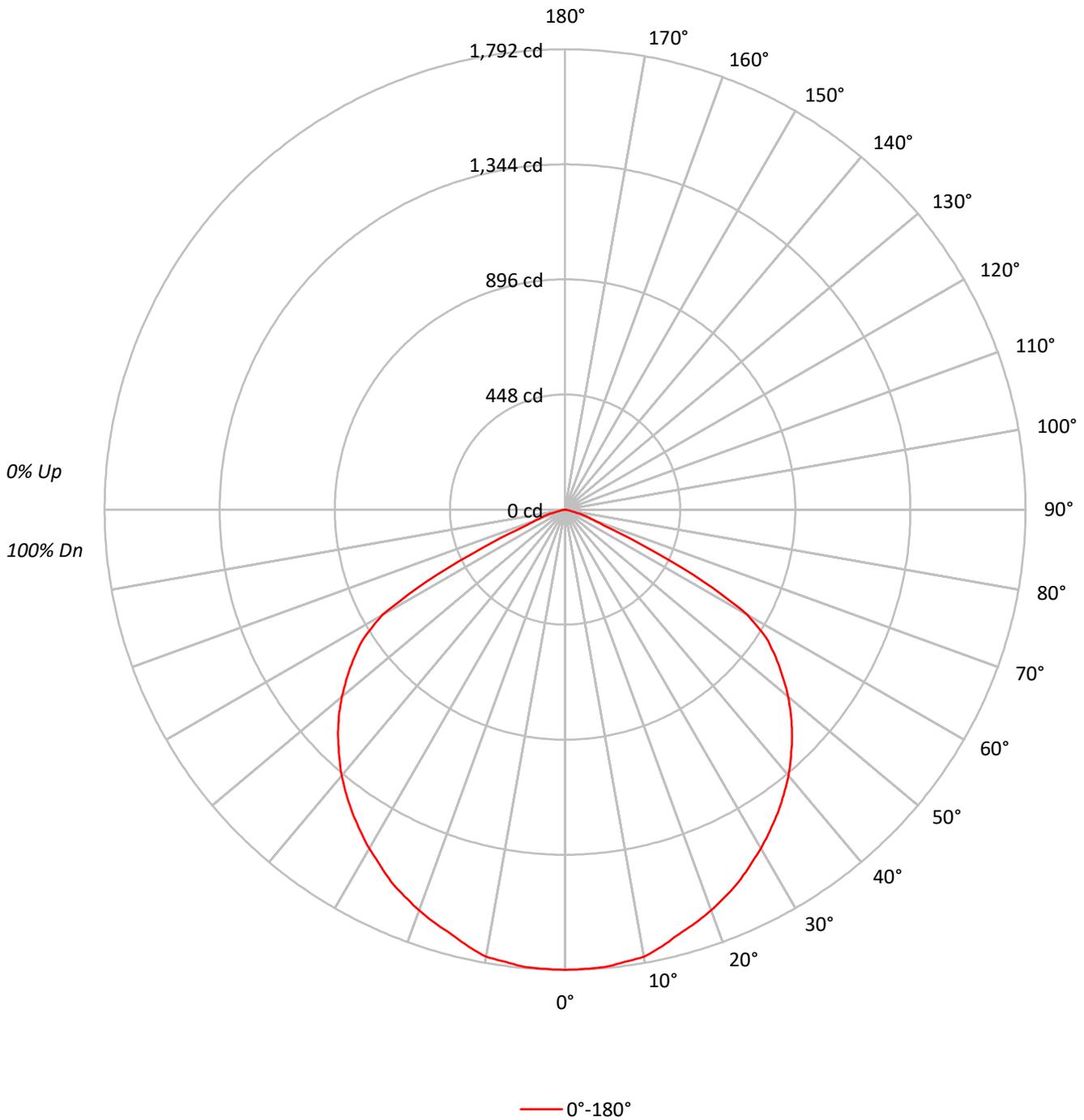
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4592.8 lumens  
Efficiency: N/A  
Efficacy: 155.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4  
Luminous Opening: Circular (Dia: 1.75' 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



TEST NUMBER: P980021  
CATALOG NUMBER: PRLX-242-930-LL5-C-U-S-WHTE-X

### Luminous Intensity Polar Plot





TEST NUMBER: P980021

CATALOG NUMBER: PRLX-242-930-LL5-C-U-S-WHTE-X

**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	90	88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

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

	0°
0°	8021
5°	8034
10°	8036
15°	7929
20°	7910
25°	7900
30°	7876
35°	7877
40°	7903
45°	7907
50°	7894
55°	7801
60°	7332
65°	3754
70°	1511
75°	712
80°	137
85°	205

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7907 cd/sqm

TEST NUMBER: P980021

CATALOG NUMBER: PRLX-242-930-LL5-C-U-S-WHTE-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.9	3.7
10°-20°	484.3	10.5
20°-30°	736.7	16.0
30°-40°	902.8	19.7
40°-50°	963.4	21.0
50°-60°	888.3	19.3
60°-70°	391.1	8.5
70°-80°	52.4	1.1
80°-90°	4.0	0.1
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°	1390.9	30.3
0°-40°	2293.7	49.9
0°-60°	4145.4	90.3
0°-90°	4592.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4592.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1792	
5°	1788	170
15°	1711	484
25°	1600	737
35°	1442	903
45°	1249	963
55°	1000	888
65°	354	391
75°	41	52
85°	4	4
90°	0	

TEST NUMBER: P980021

CATALOG NUMBER: PRLX-242-930-LL5-C-U-S-WHTE-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1792.4
2.5°	1789.8
5°	1788.4
7.5°	1776.5
10°	1768.5
12.5°	1742.0
15°	1711.4
17.5°	1687.5
20°	1661.0
22.5°	1630.4
25°	1599.9
27.5°	1560.1
30°	1524.2
32.5°	1483.1
35°	1441.9
37.5°	1398.1
40°	1352.9
42.5°	1301.2
45°	1249.4
47.5°	1193.6
50°	1133.9
52.5°	1067.5
55°	999.8
57.5°	928.1
60°	819.2
62.5°	609.4
65°	354.5
67.5°	164.6
70°	115.5
72.5°	86.3
75°	41.2
77.5°	11.9
80°	5.3
82.5°	5.3
85°	4.0
87.5°	2.7
90°	0.0



TEST NUMBER: P980021  
 CATALOG NUMBER: PRLX-242-930-LL5-C-U-S-WHTE-X

**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	20.07	21.62	20.44	21.94	22.25	20.07	21.62	20.44	21.94	22.25
	3H	20.12	21.50	20.50	21.82	22.18	20.12	21.50	20.50	21.82	22.18
	4H	20.09	21.37	20.49	21.72	22.10	20.09	21.37	20.49	21.72	22.10
	6H	20.03	21.21	20.44	21.57	21.97	20.03	21.21	20.44	21.57	21.97
	8H	19.99	21.11	20.42	21.50	21.91	19.99	21.11	20.42	21.50	21.91
	12H	19.96	21.03	20.39	21.42	21.85	19.96	21.03	20.39	21.42	21.85
4H	2H	20.17	21.45	20.57	21.80	22.18	20.17	21.45	20.57	21.80	22.18
	3H	20.26	21.30	20.67	21.70	22.11	20.26	21.30	20.67	21.70	22.11
	4H	20.22	21.15	20.65	21.57	22.01	20.22	21.15	20.65	21.57	22.01
	6H	20.16	20.97	20.62	21.41	21.87	20.16	20.97	20.62	21.41	21.87
	8H	20.12	20.87	20.58	21.32	21.78	20.12	20.87	20.58	21.32	21.78
	12H	20.09	20.76	20.57	21.24	21.71	20.09	20.76	20.57	21.24	21.71
8H	4H	20.13	20.89	20.60	21.33	21.80	20.13	20.89	20.60	21.33	21.80
	6H	20.05	20.67	20.55	21.16	21.64	20.05	20.67	20.55	21.16	21.64
	8H	20.00	20.56	20.52	21.07	21.56	20.00	20.56	20.52	21.07	21.56
	12H	19.97	20.46	20.48	20.95	21.52	19.97	20.46	20.48	20.95	21.52
12H	4H	20.10	20.77	20.58	21.25	21.72	20.10	20.77	20.58	21.25	21.72
	6H	20.00	20.56	20.51	21.07	21.55	20.00	20.56	20.51	21.07	21.55
	8H	19.97	20.46	20.48	20.95	21.52	19.97	20.46	20.48	20.95	21.52