

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: P979510

Luminaire Tested: PRLX-240-940-LL2-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-940-LL2-C-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

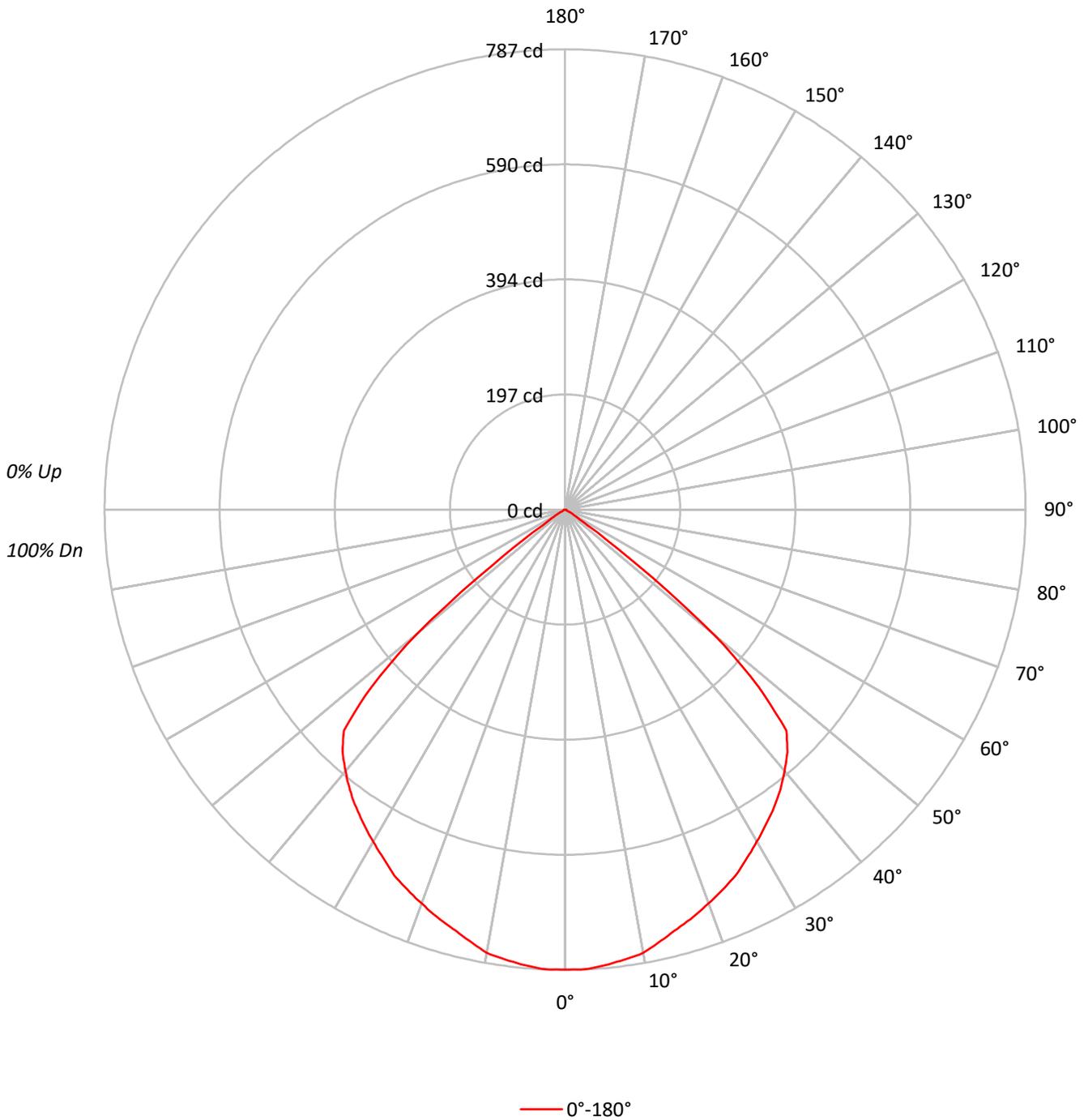
Lumens per Lamp: N/A  
Luminaire Lumens: 1468.7 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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: P979510  
CATALOG NUMBER: PRLX-240-940-LL2-C-U-S-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P979510

CATALOG NUMBER: PRLX-240-940-LL2-C-U-S-BLAK-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	112	109	106	103	110	107	104	102	103	100	99		99	97	96		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		54	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	37		47	41	37		46	41	37	36

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

	0°
0°	7917
5°	7906
10°	7872
15°	7733
20°	7680
25°	7669
30°	7625
35°	7651
40°	7672
45°	7613
50°	5210
55°	813
60°	201
65°	43
70°	53
75°	70
80°	104
85°	69

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7613 cd/sqm

TEST NUMBER: P979510

CATALOG NUMBER: PRLX-240-940-LL2-C-U-S-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.3	5.1
10°-20°	209.8	14.3
20°-30°	317.7	21.6
30°-40°	389.4	26.5
40°-50°	385.6	26.3
50°-60°	86.0	5.9
60°-70°	3.2	0.2
70°-80°	1.9	0.1
80°-90°	0.9	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°	601.7	41.0
0°-40°	991.1	67.5
0°-60°	1462.7	99.6
0°-90°	1468.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	786	
5°	782	74
15°	742	210
25°	690	318
35°	622	389
45°	535	386
55°	46	86
65°	2	3
75°	2	2
85°	1	1
90°	0	



TEST NUMBER: P979510

CATALOG NUMBER: PRLX-240-940-LL2-C-U-S-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	786.3
2.5°	786.9
5°	782.2
7.5°	776.4
10°	769.9
12.5°	755.3
15°	741.8
17.5°	730.1
20°	716.7
22.5°	703.8
25°	690.3
27.5°	672.2
30°	655.8
32.5°	638.8
35°	622.4
37.5°	604.2
40°	583.7
42.5°	562.7
45°	534.6
47.5°	449.1
50°	332.6
52.5°	155.2
55°	46.3
57.5°	22.2
60°	10.0
62.5°	3.5
65°	1.8
67.5°	1.8
70°	1.8
72.5°	1.8
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.2
85°	0.6
87.5°	0.6
90°	0.0



TEST NUMBER: P979510  
 CATALOG NUMBER: PRLX-240-940-LL2-C-U-S-BLAK-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	1.00	2.29	1.36	2.61	2.92	1.00	2.29	1.36	2.61	2.92
	3H	0.91	2.04	1.29	2.37	2.74	0.91	2.04	1.29	2.37	2.74
	4H	0.89	1.94	1.29	2.29	2.67	0.89	1.94	1.29	2.29	2.67
	6H	0.91	1.88	1.33	2.25	2.64	0.91	1.88	1.33	2.25	2.64
	8H	0.92	1.83	1.35	2.22	2.63	0.92	1.83	1.35	2.22	2.63
	12H	0.91	1.78	1.34	2.16	2.59	0.91	1.78	1.34	2.16	2.59
4H	2H	0.80	1.85	1.20	2.20	2.59	0.80	1.85	1.20	2.20	2.59
	3H	0.74	1.58	1.15	1.98	2.39	0.74	1.58	1.15	1.98	2.39
	4H	0.74	1.48	1.17	1.91	2.35	0.74	1.48	1.17	1.91	2.35
	6H	0.84	1.48	1.30	1.93	2.40	0.84	1.48	1.30	1.93	2.40
	8H	0.87	1.47	1.34	1.92	2.39	0.87	1.47	1.34	1.92	2.39
	12H	0.87	1.40	1.36	1.89	2.36	0.87	1.40	1.36	1.89	2.36
8H	4H	0.65	1.25	1.12	1.70	2.17	0.65	1.25	1.12	1.70	2.17
	6H	0.81	1.30	1.31	1.80	2.28	0.81	1.30	1.31	1.80	2.28
	8H	0.87	1.32	1.40	1.84	2.33	0.87	1.32	1.40	1.84	2.33
	12H	0.91	1.31	1.42	1.81	2.38	0.91	1.31	1.42	1.81	2.38
12H	4H	0.62	1.15	1.11	1.63	2.11	0.62	1.15	1.11	1.63	2.11
	6H	0.78	1.23	1.30	1.74	2.24	0.78	1.23	1.30	1.74	2.24
	8H	0.88	1.28	1.39	1.78	2.35	0.88	1.28	1.39	1.78	2.35