

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: P980481

Luminaire Tested: PRLX-243-940-LL3-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-243-940-LL3-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

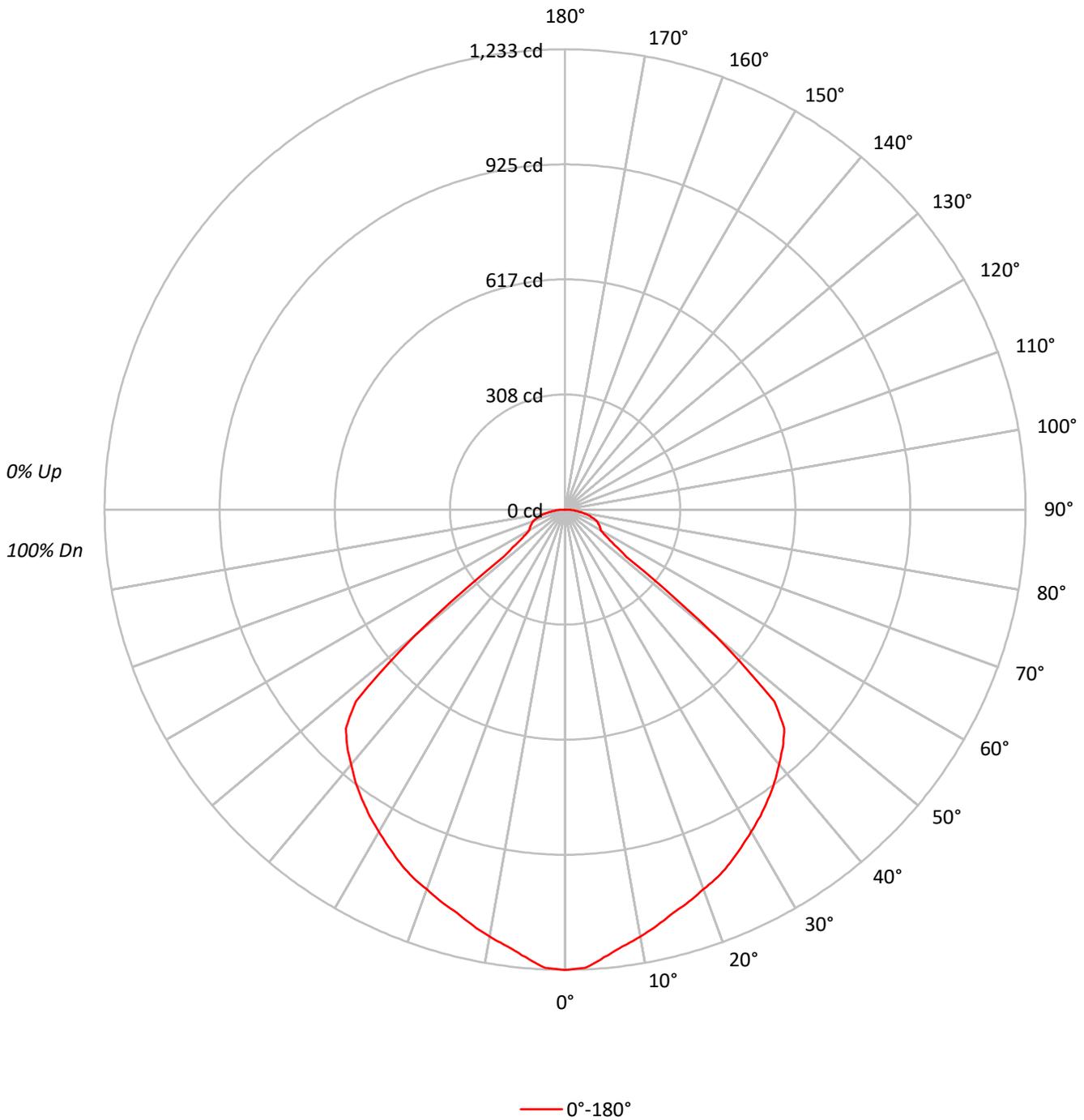
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2489.0 lumens  
Efficiency: N/A  
Efficacy: 165.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38  
Luminous Opening: Circular (Dia: 1.67' 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



TEST NUMBER: P980481  
CATALOG NUMBER: PRLX-243-940-LL3-C-U-S-WHTE-X

### Luminous Intensity Polar Plot





TEST NUMBER: P980481

CATALOG NUMBER: PRLX-243-940-LL3-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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	65	75	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53				53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48				48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39				39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

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

	0°
0°	6085
5°	5963
10°	5821
15°	5711
20°	5685
25°	5689
30°	5678
35°	5706
40°	5741
45°	5791
50°	4022
55°	1308
60°	1091
65°	1184
70°	1297
75°	1348
80°	1287
85°	1308

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5791 cd/sqm

TEST NUMBER: P980481

CATALOG NUMBER: PRLX-243-940-LL3-C-U-S-WHTE-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.6	4.6
10°-20°	316.6	12.7
20°-30°	481.5	19.3
30°-40°	593.3	23.8
40°-50°	608.7	24.5
50°-60°	176.8	7.1
60°-70°	100.0	4.0
70°-80°	73.2	2.9
80°-90°	25.2	1.0
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°	911.7	36.6
0°-40°	1505.0	60.5
0°-60°	2290.5	92.0
0°-90°	2489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1233	
5°	1204	114
15°	1118	317
25°	1045	482
35°	947	593
45°	830	609
55°	152	177
65°	101	100
75°	71	73
85°	23	25
90°	0	

TEST NUMBER: P980481

CATALOG NUMBER: PRLX-243-940-LL3-C-U-S-WHTE-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1233.3
2.5°	1229.4
5°	1204.1
7.5°	1180.2
10°	1161.8
12.5°	1141.1
15°	1118.0
17.5°	1101.9
20°	1082.7
22.5°	1066.5
25°	1045.0
27.5°	1020.4
30°	996.6
32.5°	973.5
35°	947.4
37.5°	921.3
40°	891.3
42.5°	862.9
45°	829.9
47.5°	759.9
50°	524.0
52.5°	205.9
55°	152.1
57.5°	125.2
60°	110.6
62.5°	106.0
65°	101.4
67.5°	96.0
70°	89.9
72.5°	81.4
75°	70.7
77.5°	57.6
80°	45.3
82.5°	33.8
85°	23.1
87.5°	13.1
90°	0.0



TEST NUMBER: P980481  
 CATALOG NUMBER: PRLX-243-940-LL3-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	8.79	10.21	9.16	10.52	10.84	8.79	10.21	9.16	10.52	10.84
	3H	11.22	12.47	11.60	12.80	13.16	11.22	12.47	11.60	12.80	13.16
	4H	12.27	13.45	12.68	13.80	14.18	12.27	13.45	12.68	13.80	14.18
	6H	13.06	14.14	13.47	14.51	14.90	13.06	14.14	13.47	14.51	14.90
	8H	13.34	14.36	13.77	14.75	15.15	13.34	14.36	13.77	14.75	15.15
	12H	13.55	14.53	13.98	14.91	15.34	13.55	14.53	13.98	14.91	15.34
4H	2H	9.54	10.72	9.95	11.06	11.45	9.54	10.72	9.95	11.06	11.45
	3H	12.24	13.20	12.65	13.60	14.00	12.24	13.20	12.65	13.60	14.00
	4H	13.43	14.29	13.87	14.71	15.15	13.43	14.29	13.87	14.71	15.15
	6H	14.34	15.09	14.80	15.53	16.00	14.34	15.09	14.80	15.53	16.00
	8H	14.67	15.37	15.14	15.82	16.28	14.67	15.37	15.14	15.82	16.28
	12H	14.94	15.56	15.42	16.04	16.51	14.94	15.56	15.42	16.04	16.51
8H	4H	13.85	14.55	14.32	15.00	15.47	13.85	14.55	14.32	15.00	15.47
	6H	14.91	15.49	15.41	15.98	16.46	14.91	15.49	15.41	15.98	16.46
	8H	15.33	15.85	15.85	16.37	16.86	15.33	15.85	15.85	16.37	16.86
	12H	15.70	16.17	16.21	16.66	17.23	15.70	16.17	16.21	16.66	17.23
12H	4H	13.90	14.52	14.38	15.00	15.48	13.90	14.52	14.38	15.00	15.48
	6H	14.99	15.51	15.51	16.03	16.52	14.99	15.51	15.51	16.03	16.52
	8H	15.49	15.95	16.00	16.45	17.01	15.49	15.95	16.00	16.45	17.01