

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: P980482

Luminaire Tested: PRLX-243-940-LL3-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-243-940-LL3-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 243 SHADE WITH FROSTED LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

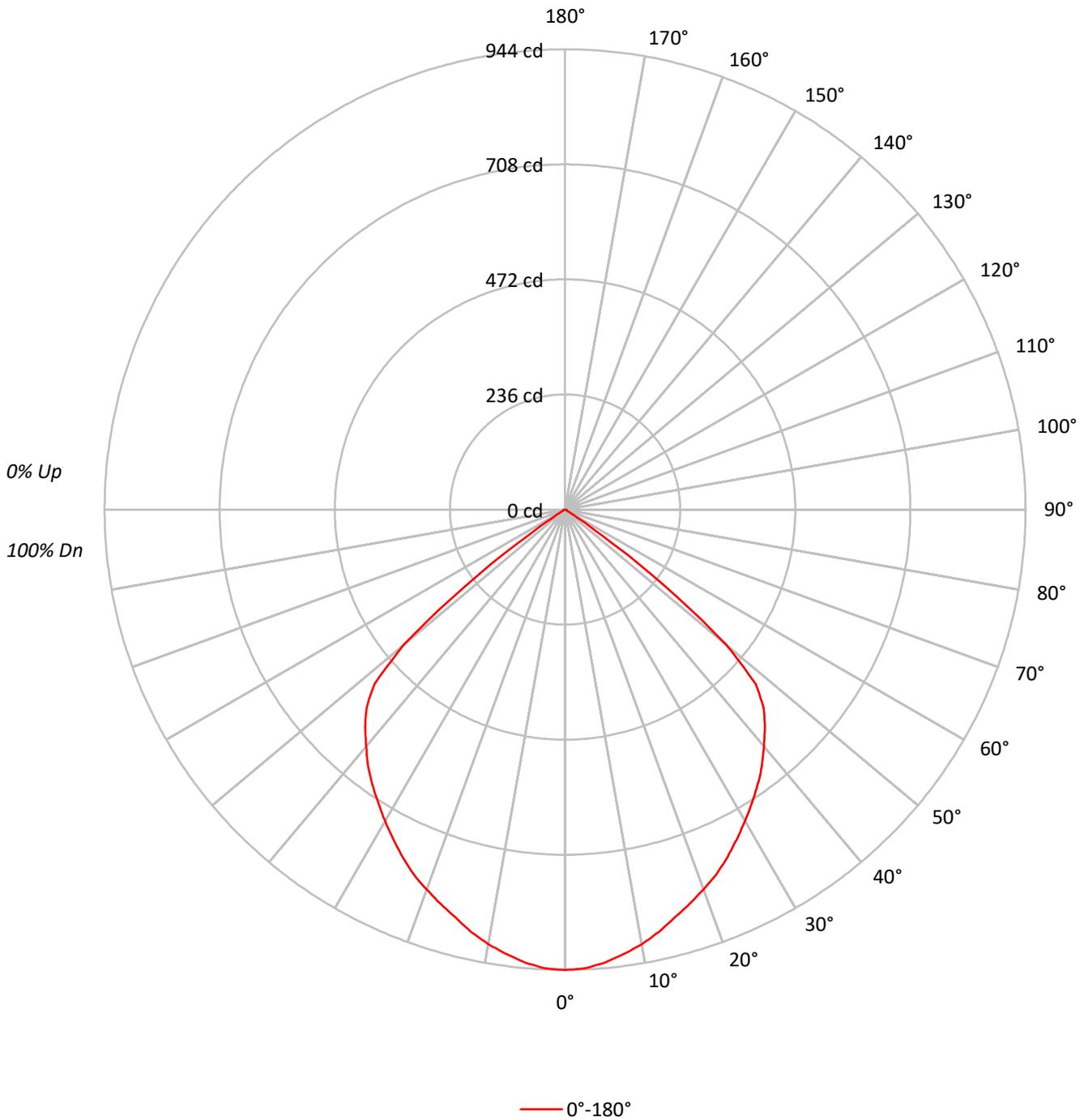
Lumens per Lamp: N/A  
Luminaire Lumens: 1693.9 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.31  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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	100	100	100	100	100	100	100	100	100	100																
	1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91	91	91	91	91	91	91	91																
	2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81	81	81	81	81	81	81	81	81															
	3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73	73	73	73	73	73	73	73	73															
	4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65	65	65	65	65	65	65	65	65	65	65	65	65															
	5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60	58	58	58	58	58	58	58	58	58	58	58	58	58															
	6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	63	58	54	52	52	52	52	52	52	52	52	52	52	52	52	52															
	7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47	47	47	47	47	47	47	47	47	47															
	8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43	43	43	43	43	43	43	43	43	43	43	43	43															
	9	65	53	46	41	64	52	46	41	51	45	41	50	45	40	49	44	40	39	39	39	39	39	39	39	39	39	39	39	39	39															
	10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35	35	35	35	35	35	35	35	35	35	35	35	35															

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

	0°	4659
	5°	4620
	10°	4535
	15°	4427
	20°	4353
	25°	4283
	30°	4203
	35°	4147
	40°	4083
	45°	4016
	50°	3303
	55°	780
	60°	45
	65°	44
	70°	55
	75°	59
	80°	43
	85°	45

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4016 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	5.2
10°-20°	244.8	14.5
20°-30°	362.4	21.4
30°-40°	430.7	25.4
40°-50°	432.6	25.5
50°-60°	127.5	7.5
60°-70°	3.9	0.2
70°-80°	2.9	0.2
80°-90°	1.0	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°	695.3	41.0
0°-40°	1126.0	66.5
0°-60°	1686.0	99.5
0°-90°	1693.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	944	
5°	933	88
15°	867	245
25°	787	362
35°	688	431
45°	576	433
55°	91	127
65°	4	4
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	944.4
2.5°	942.0
5°	932.8
7.5°	919.8
10°	905.2
12.5°	887.5
15°	866.7
17.5°	848.3
20°	829.1
22.5°	809.9
25°	786.8
27.5°	762.2
30°	737.7
32.5°	713.1
35°	688.5
37.5°	663.1
40°	633.9
42.5°	606.3
45°	575.5
47.5°	530.2
50°	430.3
52.5°	259.7
55°	90.7
57.5°	17.7
60°	4.6
62.5°	3.8
65°	3.8
67.5°	3.8
70°	3.8
72.5°	3.1
75°	3.1
77.5°	2.3
80°	1.5
82.5°	1.5
85°	0.8
87.5°	0.8
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00