

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: P980272

Luminaire Tested: PRLX-243-927-LL6-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980272  
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-243-927-LL6-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 243 SHADE WITH FROSTED LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

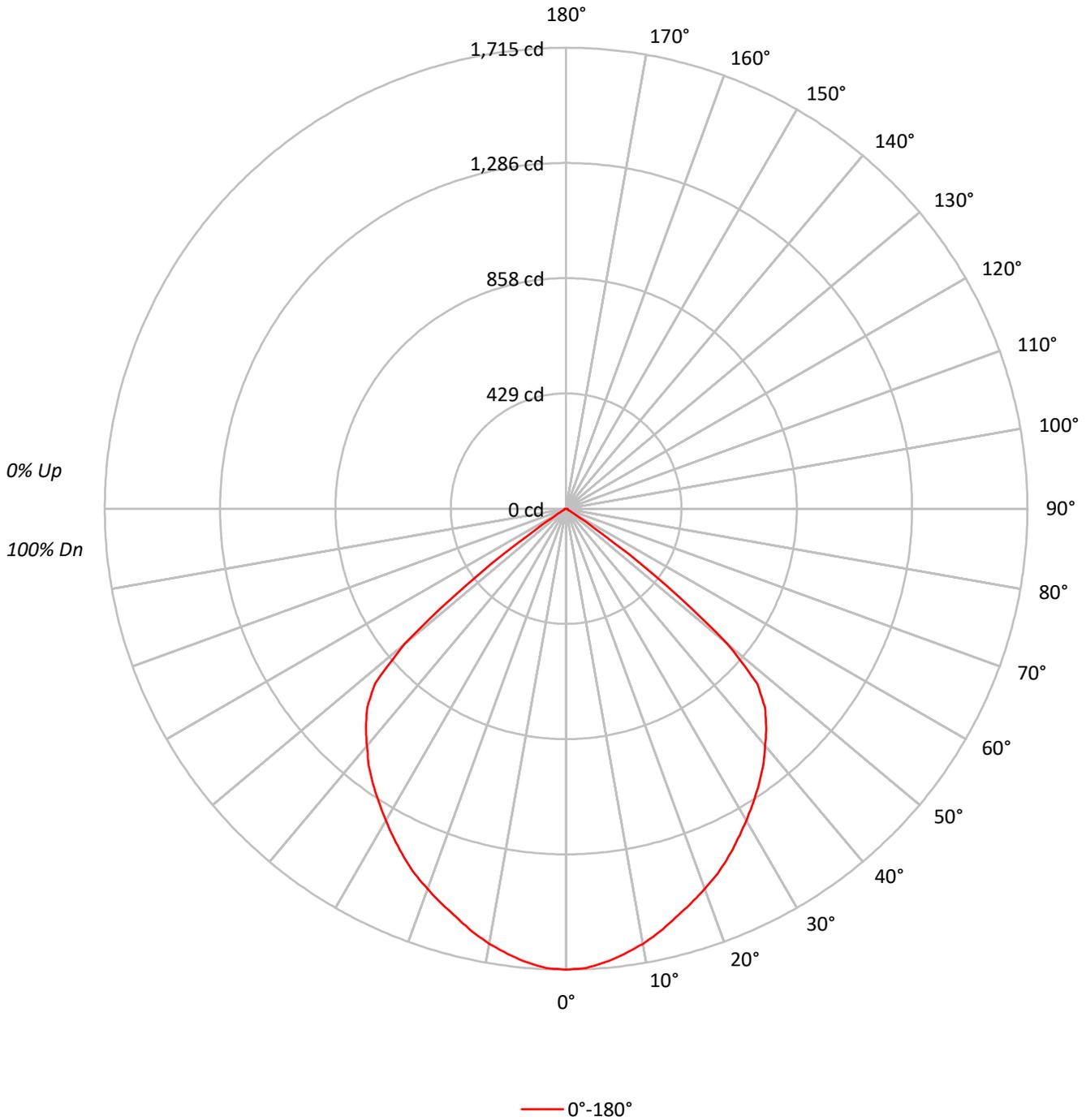
Lumens per Lamp: N/A  
Luminaire Lumens: 3076.4 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.31  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.5  
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				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	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60	58
6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	63	58	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	65	53	46	41	64	52	46	41	51	45	41	50	45	40	49	44	40	39
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

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

	0°
0°	8462
5°	8390
10°	8236
15°	8040
20°	7906
25°	7779
30°	7632
35°	7531
40°	7415
45°	7293
50°	5999
55°	1417
60°	83
65°	82
70°	101
75°	107
80°	80
85°	79

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7293 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	5.2
10°-20°	444.5	14.4
20°-30°	658.1	21.4
30°-40°	782.2	25.4
40°-50°	785.6	25.5
50°-60°	231.5	7.5
60°-70°	7.1	0.2
70°-80°	5.4	0.2
80°-90°	1.9	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°	1262.7	41.0
0°-40°	2044.9	66.5
0°-60°	3062.0	99.5
0°-90°	3076.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1715	
5°	1694	160
15°	1574	445
25°	1429	658
35°	1250	782
45°	1045	786
55°	165	231
65°	7	7
75°	6	5
85°	1	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1715.1
2.5°	1710.9
5°	1694.1
7.5°	1670.4
10°	1643.9
12.5°	1611.8
15°	1574.1
17.5°	1540.6
20°	1505.8
22.5°	1470.9
25°	1429.0
27.5°	1384.3
30°	1339.7
32.5°	1295.0
35°	1250.4
37.5°	1204.3
40°	1151.3
42.5°	1101.1
45°	1045.2
47.5°	962.9
50°	781.5
52.5°	471.7
55°	164.7
57.5°	32.1
60°	8.4
62.5°	7.0
65°	7.0
67.5°	7.0
70°	7.0
72.5°	5.6
75°	5.6
77.5°	4.2
80°	2.8
82.5°	2.8
85°	1.4
87.5°	1.4
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	0.01	0.33	0.00	0.00	0.00	0.01	0.33
	3H	0.00	0.00	0.00	0.07	0.44	0.00	0.00	0.00	0.07	0.44
	4H	0.00	0.00	0.00	0.17	0.55	0.00	0.00	0.00	0.17	0.55
	6H	0.00	0.00	0.00	0.21	0.60	0.00	0.00	0.00	0.21	0.60
	8H	0.00	0.00	0.00	0.22	0.63	0.00	0.00	0.00	0.22	0.63
	12H	0.00	0.00	0.00	0.20	0.63	0.00	0.00	0.00	0.20	0.63
4H	2H	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.07
	3H	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28
	4H	0.00	0.00	0.00	0.07	0.52	0.00	0.00	0.00	0.07	0.52
	6H	0.00	0.00	0.00	0.19	0.66	0.00	0.00	0.00	0.19	0.66
	8H	0.00	0.00	0.00	0.24	0.71	0.00	0.00	0.00	0.24	0.71
	12H	0.00	0.00	0.00	0.27	0.74	0.00	0.00	0.00	0.27	0.74
8H	4H	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.45
	6H	0.00	0.00	0.00	0.18	0.66	0.00	0.00	0.00	0.18	0.66
	8H	0.00	0.00	0.00	0.31	0.80	0.00	0.00	0.00	0.31	0.80
	12H	0.00	0.00	0.00	0.36	0.93	0.00	0.00	0.00	0.36	0.93
12H	4H	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.39
	6H	0.00	0.00	0.00	0.14	0.63	0.00	0.00	0.00	0.14	0.63
	8H	0.00	0.00	0.00	0.28	0.85	0.00	0.00	0.00	0.28	0.85