

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: P979370

Luminaire Tested: PRLX-240-930-LL4-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979370  
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-240-930-LL4-C-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

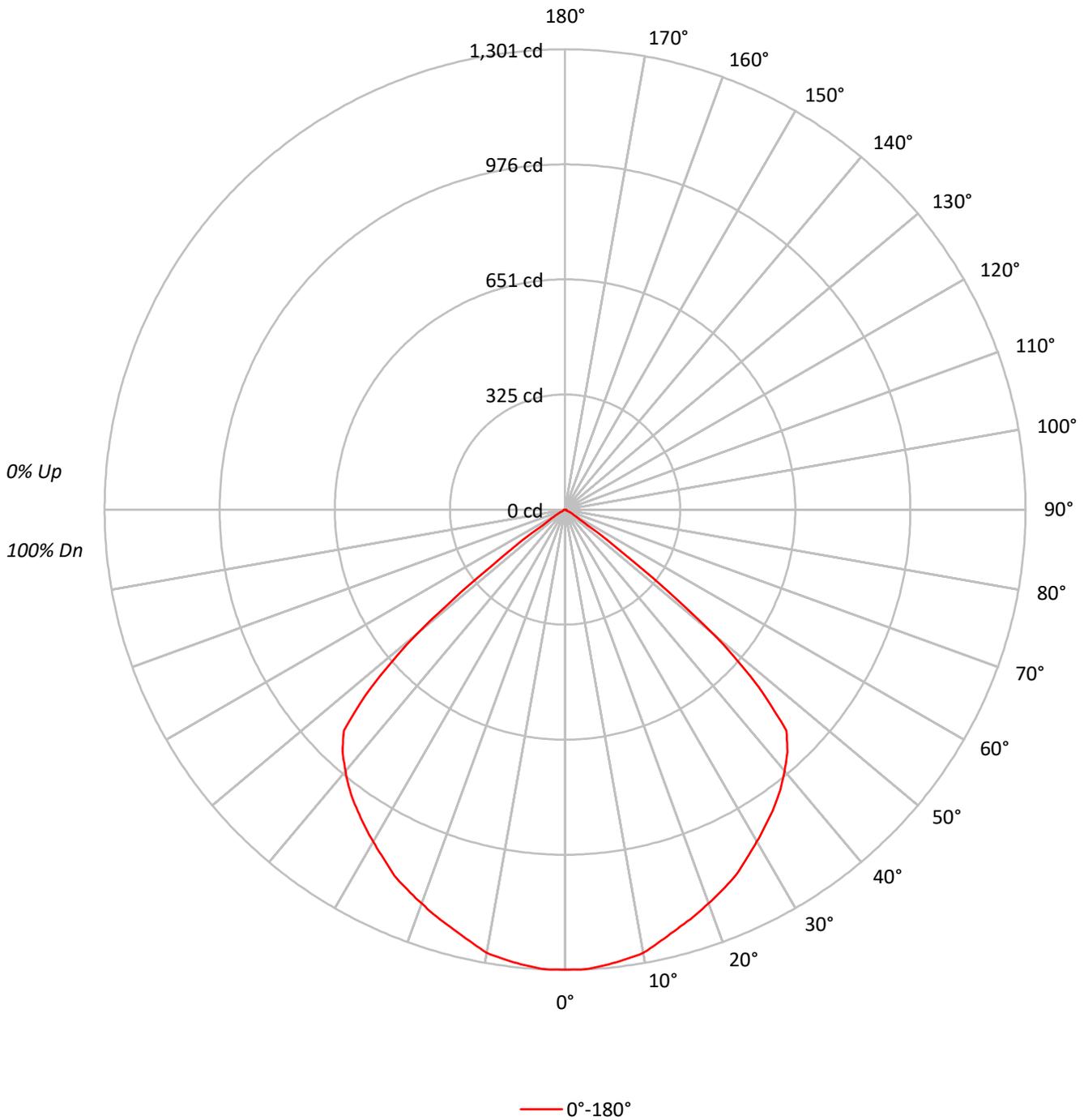
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2427.8 lumens  
Efficiency: N/A  
Efficacy: 119.0 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): 20.4  
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	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°	13089
5°	13071
10°	13014
15°	12784
20°	12694
25°	12679
30°	12604
35°	12647
40°	12684
45°	12584
50°	8612
55°	1343
60°	332
65°	69
70°	85
75°	113
80°	168
85°	116

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12584 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.8	5.1
10°-20°	346.8	14.3
20°-30°	525.2	21.6
30°-40°	643.8	26.5
40°-50°	637.4	26.3
50°-60°	142.2	5.9
60°-70°	5.2	0.2
70°-80°	3.1	0.1
80°-90°	1.5	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°	994.7	41.0
0°-40°	1638.5	67.5
0°-60°	2418.0	99.6
0°-90°	2427.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2427.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1300	
5°	1293	123
15°	1226	347
25°	1141	525
35°	1029	644
45°	884	637
55°	76	142
65°	3	5
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1299.9
2.5°	1300.9
5°	1293.2
7.5°	1283.5
10°	1272.8
12.5°	1248.6
15°	1226.4
17.5°	1207.0
20°	1184.7
22.5°	1163.5
25°	1141.2
27.5°	1111.2
30°	1084.1
32.5°	1056.0
35°	1028.9
37.5°	998.9
40°	965.0
42.5°	930.2
45°	883.7
47.5°	742.4
50°	549.8
52.5°	256.5
55°	76.5
57.5°	36.8
60°	16.5
62.5°	5.8
65°	2.9
67.5°	2.9
70°	2.9
72.5°	2.9
75°	2.9
77.5°	2.9
80°	2.9
82.5°	1.9
85°	1.0
87.5°	1.0
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	2.76	4.06	3.12	4.37	4.69	2.76	4.06	3.12	4.37	4.69
	3H	2.67	3.81	3.05	4.14	4.50	2.67	3.81	3.05	4.14	4.50
	4H	2.65	3.70	3.05	4.05	4.43	2.65	3.70	3.05	4.05	4.43
	6H	2.67	3.63	3.08	4.00	4.39	2.67	3.63	3.08	4.00	4.39
	8H	2.67	3.58	3.10	3.97	4.38	2.67	3.58	3.10	3.97	4.38
	12H	2.66	3.53	3.09	3.91	4.34	2.66	3.53	3.09	3.91	4.34
4H	2H	2.56	3.62	2.97	3.97	4.35	2.56	3.62	2.97	3.97	4.35
	3H	2.50	3.34	2.91	3.74	4.15	2.50	3.34	2.91	3.74	4.15
	4H	2.49	3.24	2.93	3.66	4.10	2.49	3.24	2.93	3.66	4.10
	6H	2.58	3.23	3.05	3.67	4.14	2.58	3.23	3.05	3.67	4.14
	8H	2.61	3.21	3.08	3.66	4.13	2.61	3.21	3.08	3.66	4.13
	12H	2.61	3.14	3.10	3.63	4.10	2.61	3.14	3.10	3.63	4.10
8H	4H	2.40	3.00	2.87	3.45	3.92	2.40	3.00	2.87	3.45	3.92
	6H	2.54	3.04	3.05	3.54	4.02	2.54	3.04	3.05	3.54	4.02
	8H	2.60	3.05	3.12	3.57	4.06	2.60	3.05	3.12	3.57	4.06
	12H	2.63	3.04	3.15	3.53	4.10	2.63	3.04	3.15	3.53	4.10
12H	4H	2.37	2.90	2.86	3.38	3.86	2.37	2.90	2.86	3.38	3.86
	6H	2.51	2.96	3.04	3.48	3.97	2.51	2.96	3.04	3.48	3.97
	8H	2.60	3.01	3.12	3.50	4.07	2.60	3.01	3.12	3.50	4.07