

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: P979390

Luminaire Tested: PRLX-240-930-LL6-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979390  
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-LL6-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: -

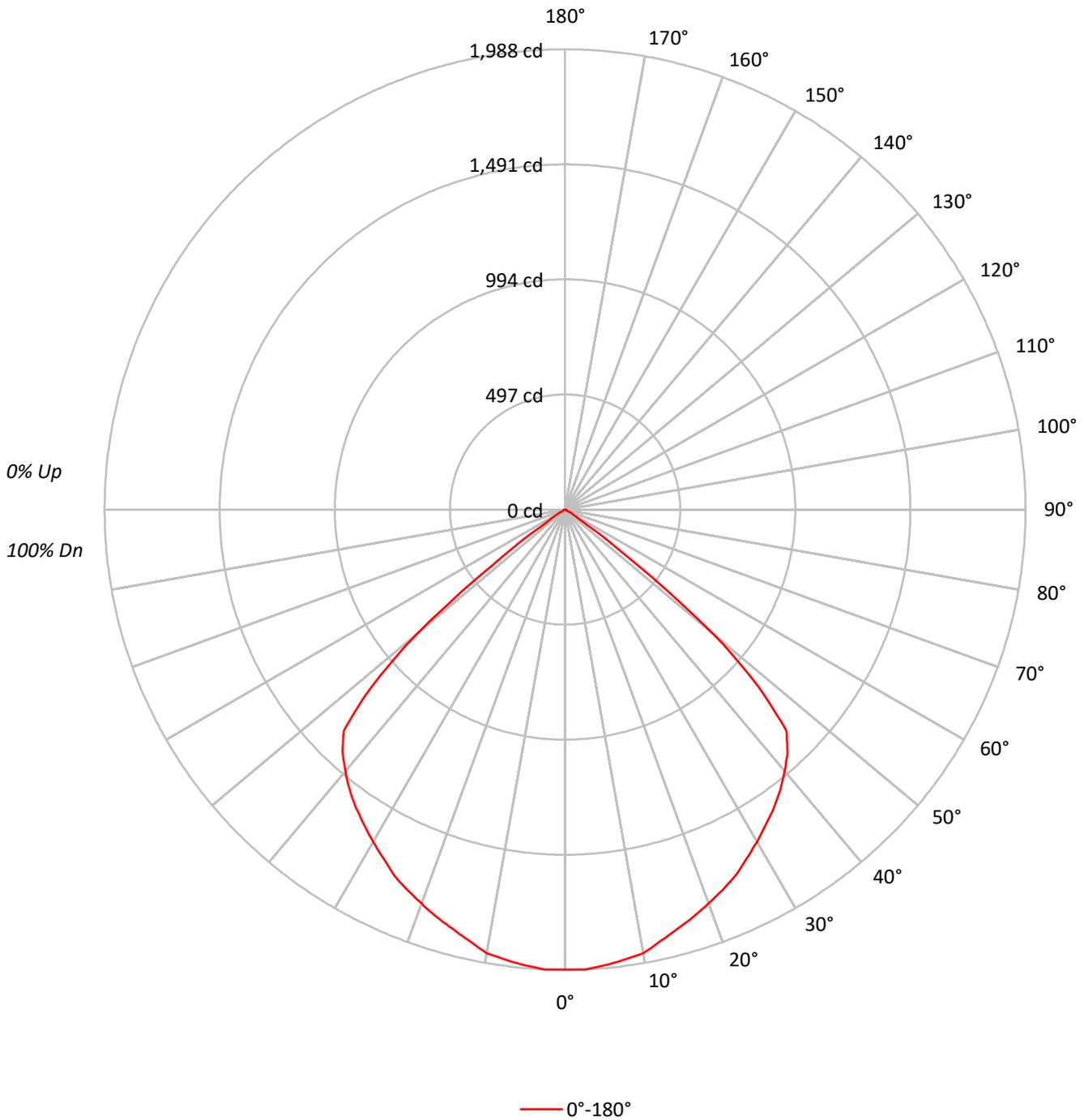
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3710.6 lumens  
Efficiency: N/A  
Efficacy: 110.8 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): 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	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°	20006
5°	19977
10°	19890
15°	19539
20°	19403
25°	19378
30°	19264
35°	19330
40°	19388
45°	19234
50°	13163
55°	2052
60°	507
65°	105
70°	130
75°	171
80°	255
85°	173

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19234 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.7	5.1
10°-20°	530.0	14.3
20°-30°	802.7	21.6
30°-40°	984.0	26.5
40°-50°	974.2	26.3
50°-60°	217.2	5.9
60°-70°	8.0	0.2
70°-80°	4.7	0.1
80°-90°	2.2	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°	1520.3	41.0
0°-40°	2504.3	67.5
0°-60°	3695.7	99.6
0°-90°	3710.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3710.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1987	
5°	1976	188
15°	1874	530
25°	1744	803
35°	1573	984
45°	1351	974
55°	117	217
65°	4	8
75°	4	5
85°	2	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1986.9
2.5°	1988.3
5°	1976.5
7.5°	1961.7
10°	1945.4
12.5°	1908.5
15°	1874.4
17.5°	1844.8
20°	1810.8
22.5°	1778.3
25°	1744.2
27.5°	1698.4
30°	1656.9
32.5°	1614.0
35°	1572.6
37.5°	1526.8
40°	1475.0
42.5°	1421.7
45°	1350.7
47.5°	1134.7
50°	840.3
52.5°	392.0
55°	116.9
57.5°	56.2
60°	25.2
62.5°	8.9
65°	4.4
67.5°	4.4
70°	4.4
72.5°	4.4
75°	4.4
77.5°	4.4
80°	4.4
82.5°	3.0
85°	1.5
87.5°	1.5
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	4.23	5.53	4.59	5.84	6.16	4.23	5.53	4.59	5.84	6.16
	3H	4.14	5.27	4.52	5.60	5.97	4.14	5.27	4.52	5.60	5.97
	4H	4.11	5.17	4.52	5.52	5.90	4.11	5.17	4.52	5.52	5.90
	6H	4.13	5.10	4.55	5.47	5.86	4.13	5.10	4.55	5.47	5.86
	8H	4.14	5.05	4.57	5.44	5.85	4.14	5.05	4.57	5.44	5.85
	12H	4.13	4.99	4.56	5.38	5.81	4.13	4.99	4.56	5.38	5.81
4H	2H	4.03	5.08	4.43	5.43	5.82	4.03	5.08	4.43	5.43	5.82
	3H	3.96	4.81	4.38	5.21	5.62	3.96	4.81	4.38	5.21	5.62
	4H	3.96	4.71	4.39	5.13	5.57	3.96	4.71	4.39	5.13	5.57
	6H	4.05	4.69	4.51	5.14	5.61	4.05	4.69	4.51	5.14	5.61
	8H	4.08	4.68	4.55	5.13	5.60	4.08	4.68	4.55	5.13	5.60
	12H	4.08	4.61	4.57	5.09	5.57	4.08	4.61	4.57	5.09	5.57
8H	4H	3.87	4.47	4.34	4.92	5.39	3.87	4.47	4.34	4.92	5.39
	6H	4.01	4.50	4.51	5.00	5.48	4.01	4.50	4.51	5.00	5.48
	8H	4.07	4.52	4.59	5.04	5.53	4.07	4.52	4.59	5.04	5.53
	12H	4.10	4.51	4.62	5.00	5.57	4.10	4.51	4.62	5.00	5.57
12H	4H	3.83	4.36	4.32	4.85	5.32	3.83	4.36	4.32	4.85	5.32
	6H	3.98	4.43	4.50	4.94	5.43	3.98	4.43	4.50	4.94	5.43
	8H	4.07	4.48	4.59	4.97	5.54	4.07	4.48	4.59	4.97	5.54