

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: P979312

Luminaire Tested: PRLX-240-927-LL6-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-927-LL6-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

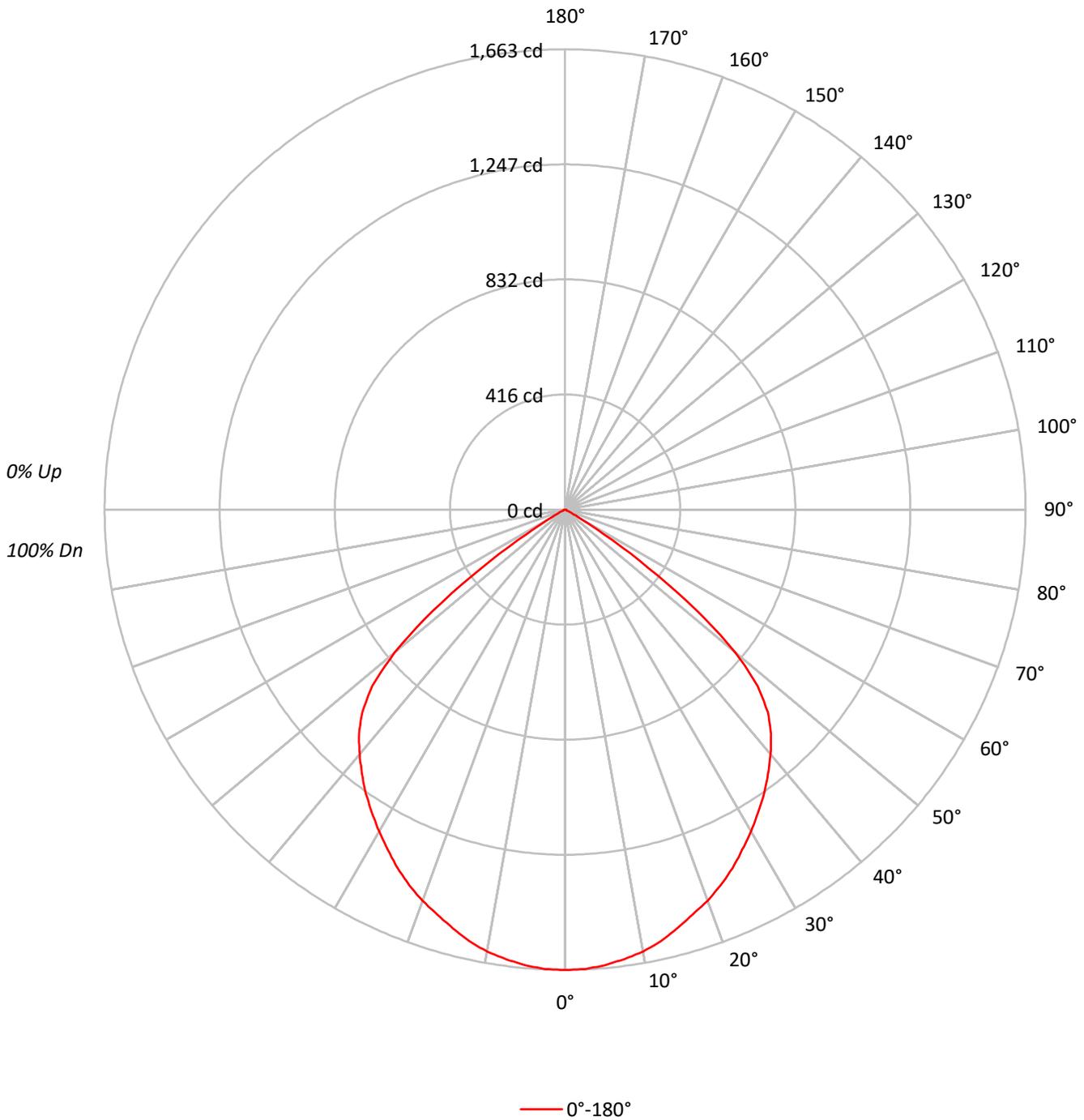
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3183.9 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33  
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									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															
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90													90															
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81													81															
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72													72															
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64													64															
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57													57															
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51													51															
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46													46															
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41													41															
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37													37															
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34													34															

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

0°	
0°	16749
5°	16701
10°	16580
15°	16322
20°	16120
25°	15892
30°	15609
35°	15404
40°	15170
45°	14745
50°	12569
55°	6418
60°	1039
65°	133
70°	124
75°	163
80°	162
85°	162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14745 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.7	4.9
10°-20°	441.9	13.9
20°-30°	658.4	20.7
30°-40°	783.5	24.6
40°-50°	782.2	24.6
50°-60°	343.1	10.8
60°-70°	11.9	0.4
70°-80°	4.3	0.1
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°	1257.0	39.5
0°-40°	2040.6	64.1
0°-60°	3165.8	99.4
0°-90°	3183.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3183.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1663	
5°	1652	157
15°	1566	442
25°	1430	658
35°	1253	784
45°	1036	782
55°	366	343
65°	6	12
75°	4	4
85°	1	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1663.4
2.5°	1662.0
5°	1652.3
7.5°	1638.3
10°	1621.6
12.5°	1597.9
15°	1565.8
17.5°	1533.7
20°	1504.4
22.5°	1469.5
25°	1430.4
27.5°	1385.7
30°	1342.5
32.5°	1297.8
35°	1253.2
37.5°	1204.3
40°	1154.1
42.5°	1101.1
45°	1035.5
47.5°	943.4
50°	802.4
52.5°	602.9
55°	365.6
57.5°	164.7
60°	51.6
62.5°	11.2
65°	5.6
67.5°	4.2
70°	4.2
72.5°	4.2
75°	4.2
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	12.10	13.44	12.46	13.76	14.07	12.10	13.44	12.46	13.76	14.07
	3H	11.97	13.15	12.35	13.48	13.85	11.97	13.15	12.35	13.48	13.85
	4H	11.91	13.00	12.31	13.35	13.73	11.91	13.00	12.31	13.35	13.73
	6H	11.84	12.84	12.25	13.21	13.60	11.84	12.84	12.25	13.21	13.60
	8H	11.80	12.75	12.23	13.14	13.54	11.80	12.75	12.23	13.14	13.54
	12H	11.76	12.66	12.19	13.05	13.48	11.76	12.66	12.19	13.05	13.48
4H	2H	11.90	12.99	12.30	13.34	13.73	11.90	12.99	12.30	13.34	13.73
	3H	11.78	12.65	12.19	13.06	13.46	11.78	12.65	12.19	13.06	13.46
	4H	11.70	12.48	12.14	12.90	13.34	11.70	12.48	12.14	12.90	13.34
	6H	11.63	12.30	12.10	12.75	13.21	11.63	12.30	12.10	12.75	13.21
	8H	11.58	12.21	12.05	12.65	13.12	11.58	12.21	12.05	12.65	13.12
	12H	11.54	12.09	12.02	12.57	13.05	11.54	12.09	12.02	12.57	13.05
8H	4H	11.56	12.19	12.03	12.64	13.11	11.56	12.19	12.03	12.64	13.11
	6H	11.47	11.99	11.98	12.48	12.97	11.47	11.99	11.98	12.48	12.97
	8H	11.41	11.88	11.94	12.40	12.89	11.41	11.88	11.94	12.40	12.89
	12H	11.37	11.79	11.88	12.29	12.86	11.37	11.79	11.88	12.29	12.86
12H	4H	11.52	12.07	12.00	12.55	13.03	11.52	12.07	12.00	12.55	13.03
	6H	11.40	11.87	11.93	12.39	12.88	11.40	11.87	11.93	12.39	12.88
	8H	11.37	11.79	11.88	12.28	12.85	11.37	11.79	11.88	12.28	12.85