

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: P979452

Luminaire Tested: PRLX-240-935-LL4-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979452  
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-240-935-LL4-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

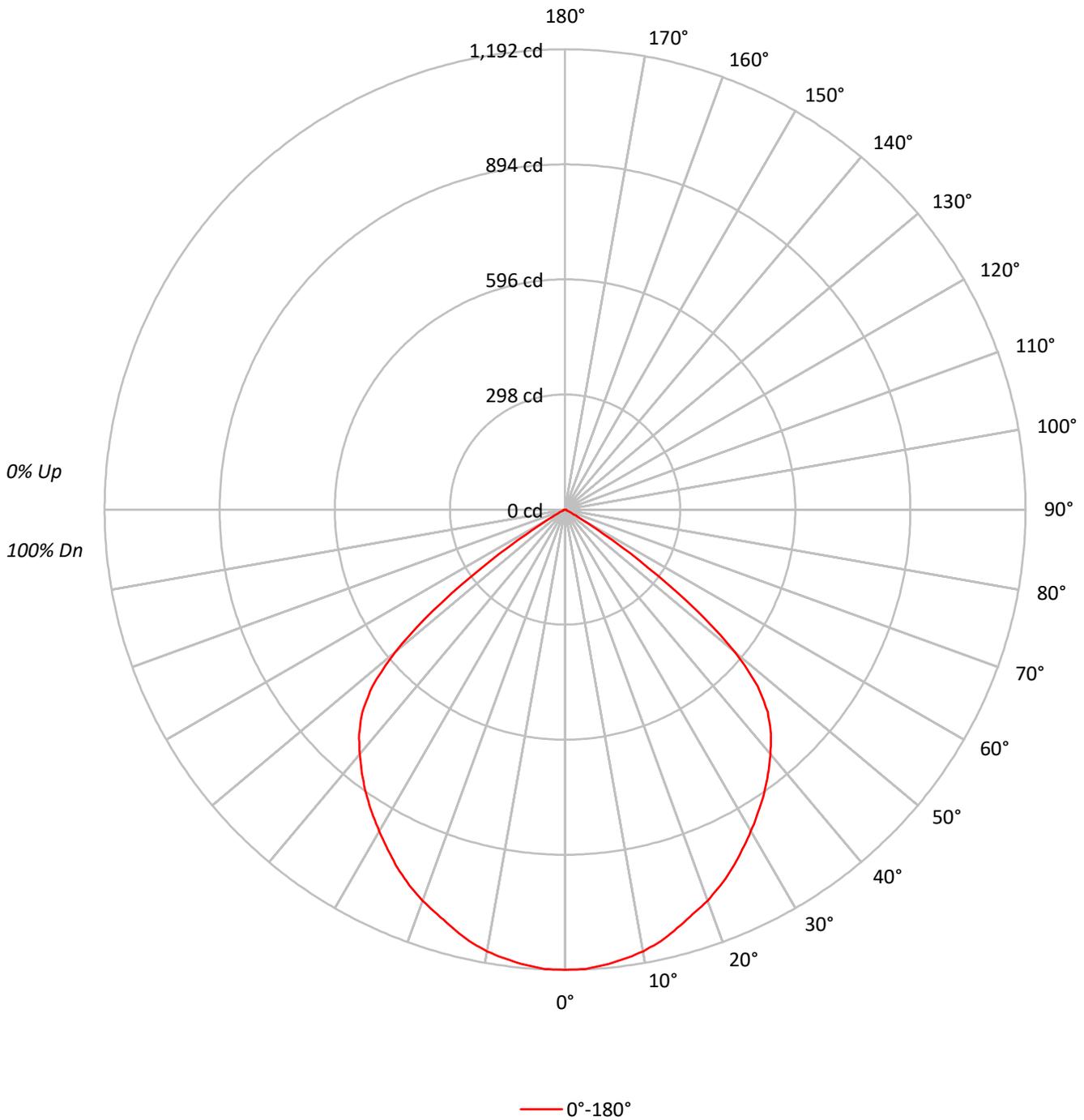
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2281.5 lumens  
Efficiency: N/A  
Efficacy: 111.3 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): 20.5  
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																		
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	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	106	104	101	102	100	98	99	97	95	95	94	92	90																												
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81																												
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72																												
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64																												
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57																												
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																												
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46																												
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41																												
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37																												
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34																												

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

0°	
0°	12002
5°	11967
10°	11881
15°	11696
20°	11551
25°	11388
30°	11185
35°	11038
40°	10870
45°	10566
50°	9007
55°	4599
60°	745
65°	95
70°	88
75°	117
80°	116
85°	116

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10566 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.3	4.9
10°-20°	316.6	13.9
20°-30°	471.8	20.7
30°-40°	561.5	24.6
40°-50°	560.5	24.6
50°-60°	245.8	10.8
60°-70°	8.5	0.4
70°-80°	3.0	0.1
80°-90°	1.4	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°	900.8	39.5
0°-40°	1462.2	64.1
0°-60°	2268.5	99.4
0°-90°	2281.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2281.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1192	
5°	1184	112
15°	1122	317
25°	1025	472
35°	898	561
45°	742	560
55°	262	246
65°	4	9
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1192
2.5°	1191
5°	1184
7.5°	1174
10°	1162
12.5°	1145
15°	1122
17.5°	1099
20°	1078
22.5°	1053
25°	1025
27.5°	993
30°	962
32.5°	930
35°	898
37.5°	863
40°	827
42.5°	789
45°	742
47.5°	676
50°	575
52.5°	432
55°	262
57.5°	118
60°	37
62.5°	8
65°	4
67.5°	3
70°	3
72.5°	3
75°	3
77.5°	3
80°	2
82.5°	2
85°	1
87.5°	1
90°	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	10.94	12.28	11.30	12.60	12.91	10.94	12.28	11.30	12.60	12.91
	3H	10.82	11.99	11.19	12.32	12.69	10.82	11.99	11.19	12.32	12.69
	4H	10.75	11.84	11.15	12.19	12.58	10.75	11.84	11.15	12.19	12.58
	6H	10.68	11.68	11.09	12.05	12.44	10.68	11.68	11.09	12.05	12.44
	8H	10.64	11.59	11.07	11.98	12.38	10.64	11.59	11.07	11.98	12.38
	12H	10.60	11.51	11.03	11.89	12.32	10.60	11.51	11.03	11.89	12.32
4H	2H	10.74	11.83	11.14	12.18	12.57	10.74	11.83	11.14	12.18	12.57
	3H	10.62	11.50	11.04	11.90	12.30	10.62	11.50	11.04	11.90	12.30
	4H	10.54	11.32	10.98	11.74	12.18	10.54	11.32	10.98	11.74	12.18
	6H	10.47	11.14	10.94	11.59	12.05	10.47	11.14	10.94	11.59	12.05
	8H	10.42	11.05	10.89	11.49	11.96	10.42	11.05	10.89	11.49	11.96
	12H	10.38	10.93	10.86	11.41	11.89	10.38	10.93	10.86	11.41	11.89
8H	4H	10.41	11.03	10.88	11.48	11.95	10.41	11.03	10.88	11.48	11.95
	6H	10.31	10.83	10.82	11.33	11.81	10.31	10.83	10.82	11.33	11.81
	8H	10.26	10.72	10.78	11.24	11.73	10.26	10.72	10.78	11.24	11.73
	12H	10.21	10.63	10.73	11.13	11.70	10.21	10.63	10.73	11.13	11.70
12H	4H	10.36	10.91	10.84	11.39	11.87	10.36	10.91	10.84	11.39	11.87
	6H	10.25	10.71	10.77	11.23	11.72	10.25	10.71	10.77	11.23	11.72
	8H	10.21	10.63	10.72	11.12	11.69	10.21	10.63	10.72	11.12	11.69