

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: P979572

Luminaire Tested: PRLX-240-940-LL8-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979572  
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-240-940-LL8-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

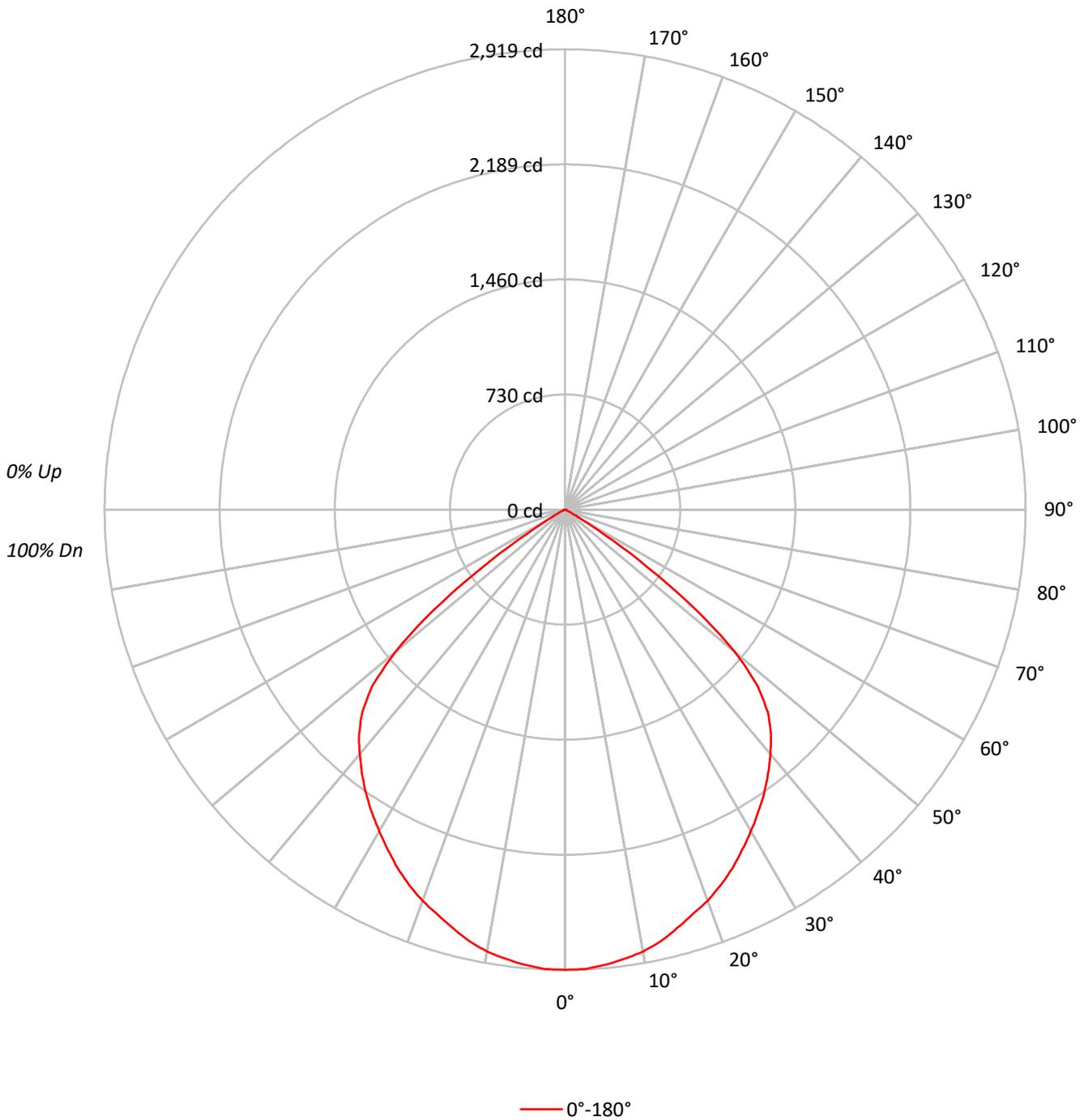
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5587.3 lumens  
Efficiency: N/A  
Efficacy: 90.9 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): 61.5  
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	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°	29394
5°	29309
10°	29096
15°	28644
20°	28289
25°	27889
30°	27392
35°	27033
40°	26622
45°	25876
50°	22059
55°	11265
60°	1825
65°	233
70°	215
75°	284
80°	284
85°	277

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25876 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.1	4.9
10°-20°	775.5	13.9
20°-30°	1155.5	20.7
30°-40°	1375.0	24.6
40°-50°	1372.6	24.6
50°-60°	602.1	10.8
60°-70°	20.9	0.4
70°-80°	7.4	0.1
80°-90°	3.3	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°	2206.0	39.5
0°-40°	3581.0	64.1
0°-60°	5555.7	99.4
0°-90°	5587.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5587.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2919	
5°	2900	275
15°	2748	775
25°	2510	1155
35°	2199	1375
45°	1817	1373
55°	642	602
65°	10	21
75°	7	7
85°	2	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2919.3
2.5°	2916.8
5°	2899.7
7.5°	2875.2
10°	2845.8
12.5°	2804.2
15°	2747.8
17.5°	2691.5
20°	2640.1
22.5°	2578.8
25°	2510.3
27.5°	2431.9
30°	2356.0
32.5°	2277.6
35°	2199.2
37.5°	2113.5
40°	2025.4
42.5°	1932.3
45°	1817.2
47.5°	1655.6
50°	1408.2
52.5°	1058.0
55°	641.7
57.5°	289.0
60°	90.6
62.5°	19.6
65°	9.8
67.5°	7.3
70°	7.3
72.5°	7.3
75°	7.3
77.5°	7.3
80°	4.9
82.5°	4.9
85°	2.4
87.5°	2.4
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	14.05	15.40	14.41	15.71	16.02	14.05	15.40	14.41	15.71	16.02
	3H	13.93	15.11	14.31	15.44	15.80	13.93	15.11	14.31	15.44	15.80
	4H	13.86	14.95	14.26	15.30	15.69	13.86	14.95	14.26	15.30	15.69
	6H	13.79	14.79	14.21	15.16	15.56	13.79	14.79	14.21	15.16	15.56
	8H	13.75	14.70	14.18	15.09	15.50	13.75	14.70	14.18	15.09	15.50
	12H	13.71	14.62	14.15	15.00	15.43	13.71	14.62	14.15	15.00	15.43
4H	2H	13.85	14.95	14.26	15.30	15.68	13.85	14.95	14.26	15.30	15.68
	3H	13.73	14.61	14.15	15.01	15.42	13.73	14.61	14.15	15.01	15.42
	4H	13.66	14.43	14.09	14.85	15.29	13.66	14.43	14.09	14.85	15.29
	6H	13.59	14.25	14.05	14.70	15.17	13.59	14.25	14.05	14.70	15.17
	8H	13.53	14.16	14.00	14.61	15.08	13.53	14.16	14.00	14.61	15.08
	12H	13.49	14.04	13.98	14.53	15.00	13.49	14.04	13.98	14.53	15.00
8H	4H	13.52	14.14	13.99	14.59	15.06	13.52	14.14	13.99	14.59	15.06
	6H	13.43	13.94	13.93	14.44	14.92	13.43	13.94	13.93	14.44	14.92
	8H	13.37	13.84	13.89	14.35	14.84	13.37	13.84	13.89	14.35	14.84
	12H	13.32	13.75	13.84	14.24	14.81	13.32	13.75	13.84	14.24	14.81
12H	4H	13.47	14.02	13.95	14.50	14.98	13.47	14.02	13.95	14.50	14.98
	6H	13.36	13.83	13.88	14.34	14.83	13.36	13.83	13.88	14.34	14.83
	8H	13.32	13.74	13.83	14.24	14.81	13.32	13.74	13.83	14.24	14.81