

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: P980011

Luminaire Tested: PRLX-242-930-LL4-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-242-930-LL4-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3348.2 lumens  
Efficiency: N/A  
Efficacy: 162.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct

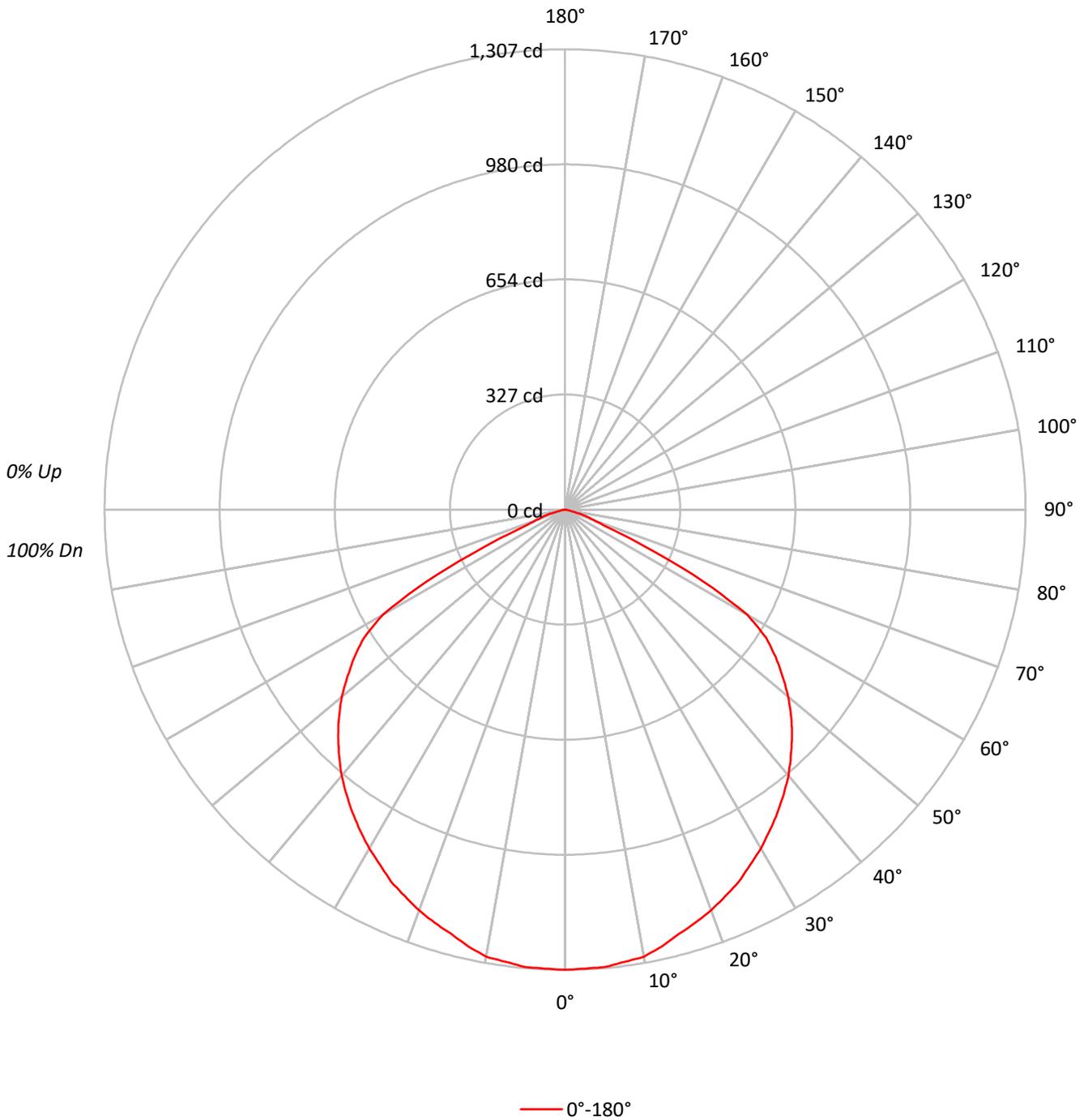
Input Watts (W): 20.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			88	
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			75	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64			64	
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	67	62	58	56			56	
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48			48	
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42			42	
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37			37	
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33			33	
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30			30	
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27			27	

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

	0°
0°	5848
5°	5857
10°	5859
15°	5781
20°	5767
25°	5759
30°	5742
35°	5743
40°	5762
45°	5764
50°	5755
55°	5687
60°	5345
65°	2736
70°	1102
75°	519
80°	101
85°	149

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5764 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.9	3.7
10°-20°	353.0	10.5
20°-30°	537.1	16.0
30°-40°	658.1	19.7
40°-50°	702.3	21.0
50°-60°	647.6	19.3
60°-70°	285.1	8.5
70°-80°	38.2	1.1
80°-90°	2.9	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°	1014.0	30.3
0°-40°	1672.2	49.9
0°-60°	3022.0	90.3
0°-90°	3348.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1307	
5°	1304	124
15°	1248	353
25°	1166	537
35°	1051	658
45°	911	702
55°	729	648
65°	258	285
75°	30	38
85°	3	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1306.7
2.5°	1304.8
5°	1303.8
7.5°	1295.1
10°	1289.3
12.5°	1269.9
15°	1247.7
17.5°	1230.2
20°	1210.9
22.5°	1188.6
25°	1166.4
27.5°	1137.3
30°	1111.2
32.5°	1081.2
35°	1051.2
37.5°	1019.2
40°	986.3
42.5°	948.6
45°	910.8
47.5°	870.2
50°	826.6
52.5°	778.2
55°	728.9
57.5°	676.6
60°	597.2
62.5°	444.3
65°	258.4
67.5°	120.0
70°	84.2
72.5°	62.9
75°	30.0
77.5°	8.7
80°	3.9
82.5°	3.9
85°	2.9
87.5°	1.9
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	18.97	20.52	19.34	20.84	21.15	18.97	20.52	19.34	20.84	21.15
	3H	19.02	20.40	19.40	20.72	21.09	19.02	20.40	19.40	20.72	21.09
	4H	18.99	20.27	19.39	20.62	21.00	18.99	20.27	19.39	20.62	21.00
	6H	18.93	20.11	19.34	20.48	20.87	18.93	20.11	19.34	20.48	20.87
	8H	18.89	20.02	19.32	20.41	20.81	18.89	20.02	19.32	20.41	20.81
	12H	18.86	19.94	19.29	20.32	20.75	18.86	19.94	19.29	20.32	20.75
4H	2H	19.07	20.35	19.47	20.70	21.08	19.07	20.35	19.47	20.70	21.08
	3H	19.16	20.21	19.57	20.61	21.01	19.16	20.21	19.57	20.61	21.01
	4H	19.12	20.06	19.56	20.47	20.91	19.12	20.06	19.56	20.47	20.91
	6H	19.07	19.87	19.52	20.32	20.78	19.07	19.87	19.52	20.32	20.78
	8H	19.02	19.77	19.49	20.22	20.69	19.02	19.77	19.49	20.22	20.69
	12H	18.99	19.66	19.47	20.14	20.61	18.99	19.66	19.47	20.14	20.61
8H	4H	19.04	19.79	19.50	20.23	20.70	19.04	19.79	19.50	20.23	20.70
	6H	18.96	19.57	19.45	20.06	20.54	18.96	19.57	19.45	20.06	20.54
	8H	18.90	19.46	19.42	19.97	20.46	18.90	19.46	19.42	19.97	20.46
	12H	18.87	19.36	19.38	19.85	20.42	18.87	19.36	19.38	19.85	20.42
12H	4H	19.00	19.67	19.48	20.15	20.62	19.00	19.67	19.48	20.15	20.62
	6H	18.90	19.46	19.42	19.97	20.46	18.90	19.46	19.42	19.97	20.46
	8H	18.87	19.36	19.38	19.85	20.42	18.87	19.36	19.38	19.85	20.42