

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: P979361

Luminaire Tested: PRLX-240-930-LL3-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-930-LL3-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

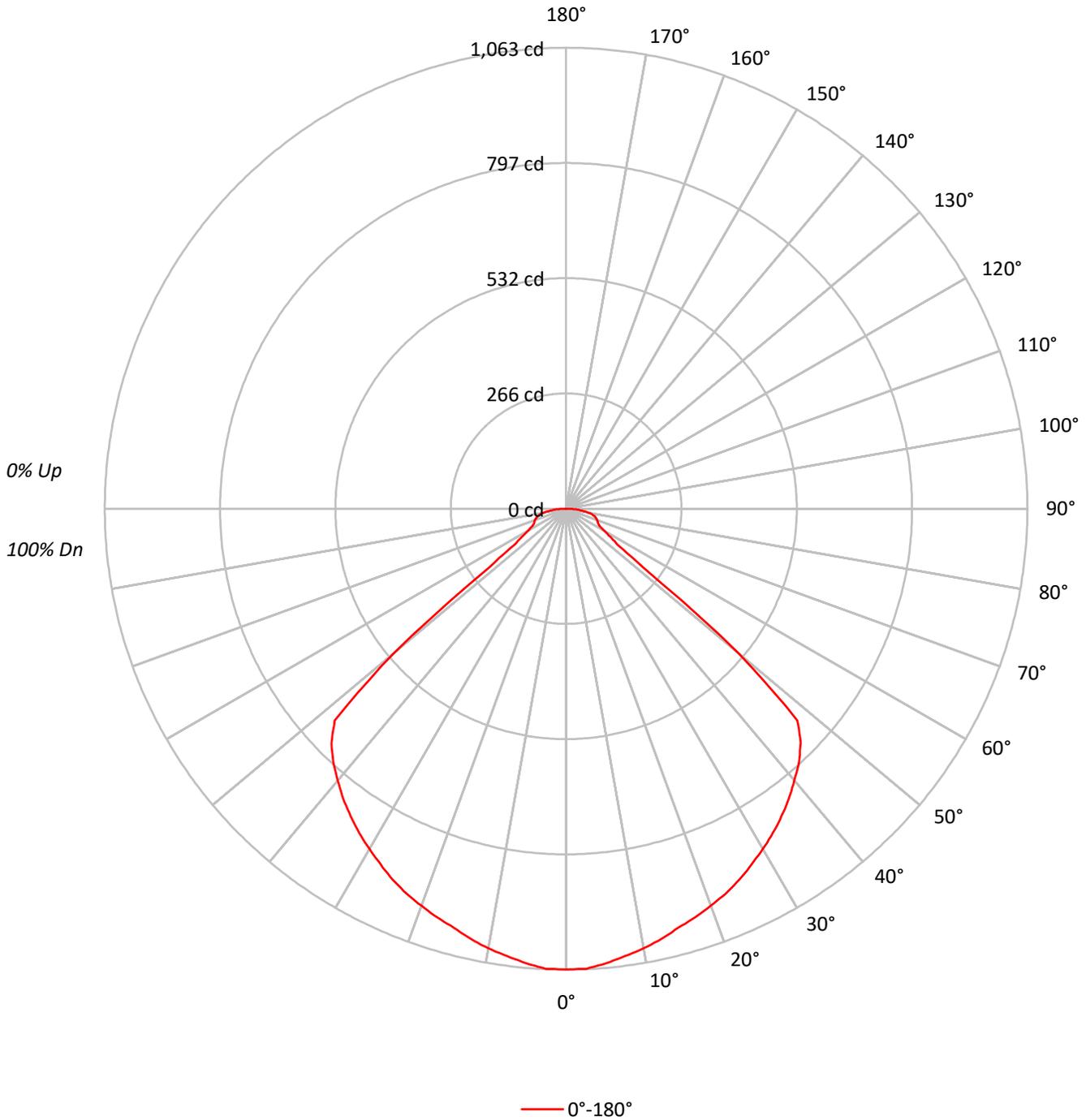
Lumens per Lamp: N/A  
Luminaire Lumens: 2287.1 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 15  
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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32

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

	0°
0°	10700
5°	10640
10°	10528
15°	10427
20°	10442
25°	10492
30°	10538
35°	10639
40°	10755
45°	10885
50°	8133
55°	2530
60°	2022
65°	1947
70°	2237
75°	2649
80°	3033
85°	2981

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10885 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.7	4.4
10°-20°	283.1	12.4
20°-30°	435.4	19.0
30°-40°	542.0	23.7
40°-50°	568.6	24.9
50°-60°	175.8	7.7
60°-70°	83.3	3.6
70°-80°	70.4	3.1
80°-90°	28.8	1.3
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°	818.3	35.8
0°-40°	1360.3	59.5
0°-60°	2104.7	92.0
0°-90°	2287.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1063	
5°	1053	100
15°	1000	283
25°	944	435
35°	866	542
45°	764	569
55°	144	176
65°	82	83
75°	68	70
85°	26	29
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1062.7
2.5°	1062.0
5°	1052.7
7.5°	1040.5
10°	1029.7
12.5°	1016.1
15°	1000.3
17.5°	988.2
20°	974.5
22.5°	960.9
25°	944.4
27.5°	925.1
30°	906.4
32.5°	887.0
35°	865.5
37.5°	843.3
40°	818.2
42.5°	793.8
45°	764.4
47.5°	722.8
50°	519.2
52.5°	223.0
55°	144.1
57.5°	119.8
60°	100.4
62.5°	87.5
65°	81.7
67.5°	78.9
70°	76.0
72.5°	72.4
75°	68.1
77.5°	61.7
80°	52.3
82.5°	39.4
85°	25.8
87.5°	14.3
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	11.22	12.65	11.59	12.96	13.27	11.22	12.65	11.59	12.96	13.27
	3H	13.18	14.45	13.56	14.78	15.14	13.18	14.45	13.56	14.78	15.14
	4H	14.34	15.52	14.74	15.87	16.25	14.34	15.52	14.74	15.87	16.25
	6H	15.47	16.56	15.89	16.93	17.32	15.47	16.56	15.89	16.93	17.32
	8H	15.90	16.93	16.33	17.32	17.72	15.90	16.93	16.33	17.32	17.72
	12H	16.20	17.19	16.63	17.57	18.00	16.20	17.19	16.63	17.57	18.00
4H	2H	11.73	12.91	12.13	13.26	13.64	11.73	12.91	12.13	13.26	13.64
	3H	14.09	15.06	14.51	15.47	15.87	14.09	15.06	14.51	15.47	15.87
	4H	15.47	16.34	15.91	16.76	17.20	15.47	16.34	15.91	16.76	17.20
	6H	16.80	17.55	17.26	18.00	18.46	16.80	17.55	17.26	18.00	18.46
	8H	17.29	18.00	17.76	18.44	18.91	17.29	18.00	17.76	18.44	18.91
	12H	17.66	18.29	18.15	18.77	19.24	17.66	18.29	18.15	18.77	19.24
8H	4H	16.00	16.71	16.47	17.16	17.63	16.00	16.71	16.47	17.16	17.63
	6H	17.51	18.10	18.01	18.59	19.07	17.51	18.10	18.01	18.59	19.07
	8H	18.11	18.64	18.63	19.16	19.65	18.11	18.64	18.63	19.16	19.65
	12H	18.59	19.07	19.10	19.56	20.13	18.59	19.07	19.10	19.56	20.13
12H	4H	16.10	16.73	16.58	17.21	17.68	16.10	16.73	16.58	17.21	17.68
	6H	17.65	18.18	18.16	18.69	19.18	17.65	18.18	18.16	18.69	19.18
	8H	18.33	18.80	18.84	19.30	19.86	18.33	18.80	18.84	19.30	19.86