

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: P979353

Luminaire Tested: PRLX-240-930-LL2-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-LL2-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

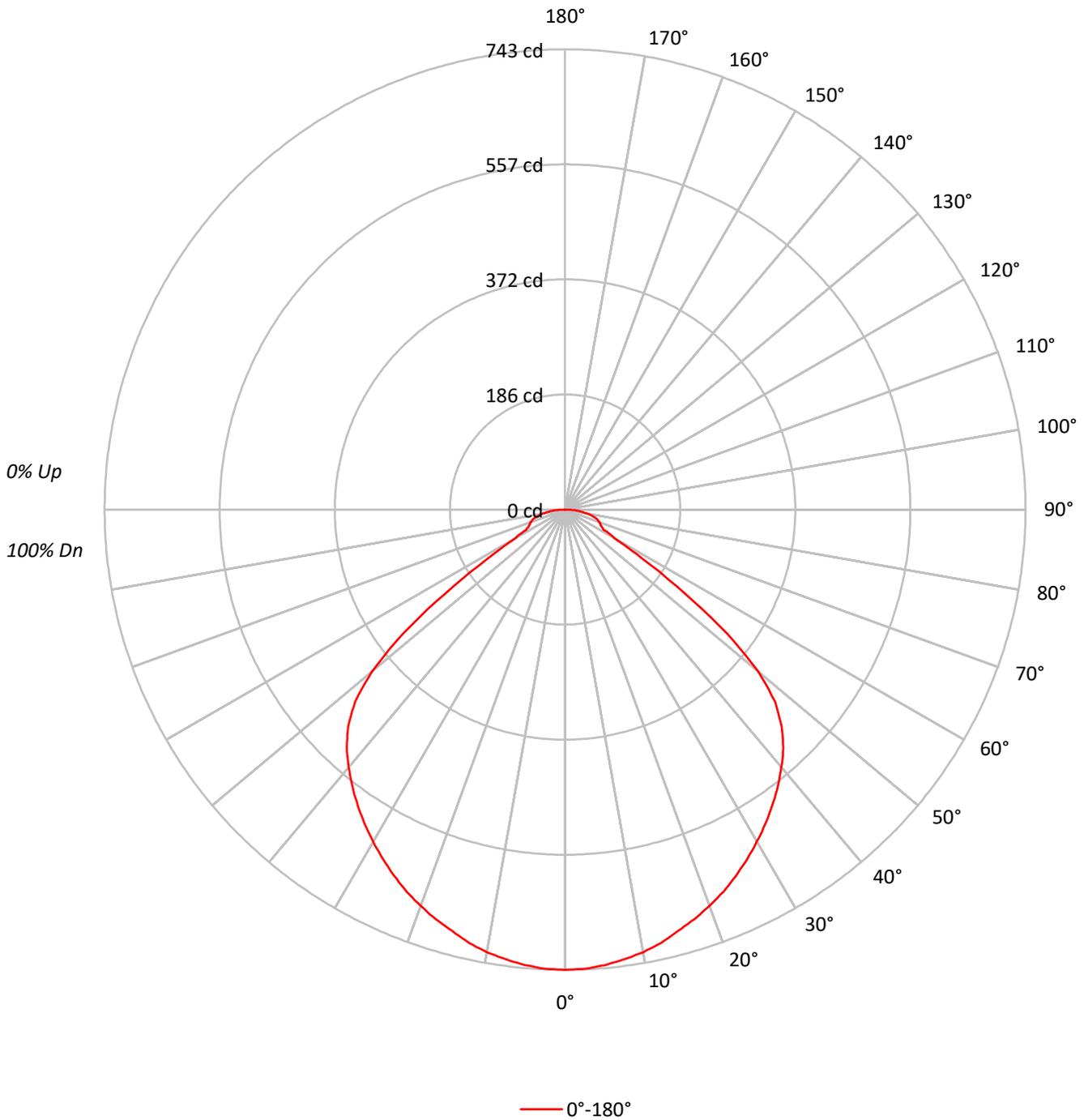
Lumens per Lamp: N/A
Luminaire Lumens: 1662.9 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	104	101	98	100	98	95	96	94	92	93	91	89	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7482
5°	7461
10°	7419
15°	7342
20°	7295
25°	7248
30°	7198
35°	7166
40°	7139
45°	7042
50°	6377
55°	4143
60°	1871
65°	1537
70°	1737
75°	1934
80°	2029
85°	2080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	4.2
10°-20°	199.0	12.0
20°-30°	300.7	18.1
30°-40°	364.9	21.9
40°-50°	376.2	22.6
50°-60°	213.4	12.8
60°-70°	67.5	4.1
70°-80°	51.5	3.1
80°-90°	19.6	1.2
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°	569.8	34.3
0°-40°	934.7	56.2
0°-60°	1524.3	91.7
0°-90°	1662.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1662.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	743	
5°	738	70
15°	704	199
25°	652	301
35°	583	365
45°	494	376
55°	236	213
65°	64	67
75°	50	52
85°	18	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	743.1
2.5°	742.0
5°	738.2
7.5°	732.2
10°	725.6
12.5°	716.3
15°	704.3
17.5°	693.4
20°	680.8
22.5°	667.7
25°	652.4
27.5°	636.0
30°	619.1
32.5°	601.6
35°	583.0
37.5°	563.9
40°	543.1
42.5°	521.3
45°	494.5
47.5°	459.5
50°	407.1
52.5°	330.0
55°	236.0
57.5°	148.1
60°	92.9
62.5°	70.5
65°	64.5
67.5°	61.7
70°	59.0
72.5°	55.2
75°	49.7
77.5°	43.2
80°	35.0
82.5°	26.8
85°	18.0
87.5°	9.8
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	13.63	15.10	14.00	15.41	15.73	13.63	15.10	14.00	15.41	15.73
	3H	14.52	15.83	14.90	16.16	16.52	14.52	15.83	14.90	16.16	16.52
	4H	15.13	16.35	15.53	16.70	17.08	15.13	16.35	15.53	16.70	17.08
	6H	15.73	16.85	16.14	17.22	17.61	15.73	16.85	16.14	17.22	17.61
	8H	15.97	17.03	16.39	17.42	17.83	15.97	17.03	16.39	17.42	17.83
	12H	16.15	17.17	16.58	17.56	17.99	16.15	17.17	16.58	17.56	17.99
4H	2H	13.76	14.98	14.16	15.32	15.70	13.76	14.98	14.16	15.32	15.70
	3H	15.00	16.00	15.41	16.40	16.80	15.00	16.00	15.41	16.40	16.80
	4H	15.82	16.71	16.25	17.13	17.57	15.82	16.71	16.25	17.13	17.57
	6H	16.63	17.40	17.09	17.85	18.31	16.63	17.40	17.09	17.85	18.31
	8H	16.95	17.67	17.41	18.12	18.59	16.95	17.67	17.41	18.12	18.59
	12H	17.20	17.86	17.69	18.34	18.81	17.20	17.86	17.69	18.34	18.81
8H	4H	16.13	16.86	16.60	17.31	17.78	16.13	16.86	16.60	17.31	17.78
	6H	17.10	17.71	17.60	18.20	18.68	17.10	17.71	17.60	18.20	18.68
	8H	17.52	18.08	18.04	18.59	19.08	17.52	18.08	18.04	18.59	19.08
	12H	17.89	18.39	18.40	18.88	19.45	17.89	18.39	18.40	18.88	19.45
12H	4H	16.18	16.83	16.66	17.31	17.78	16.18	16.83	16.66	17.31	17.78
	6H	17.18	17.74	17.70	18.25	18.74	17.18	17.74	17.70	18.25	18.74
	8H	17.68	18.17	18.19	18.66	19.23	17.68	18.17	18.19	18.66	19.23