

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: P979321

Luminaire Tested: PRLX-240-927-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979321
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-240-927-LL7-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5797.2 lumens
Efficiency: N/A
Efficacy: 120.8 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

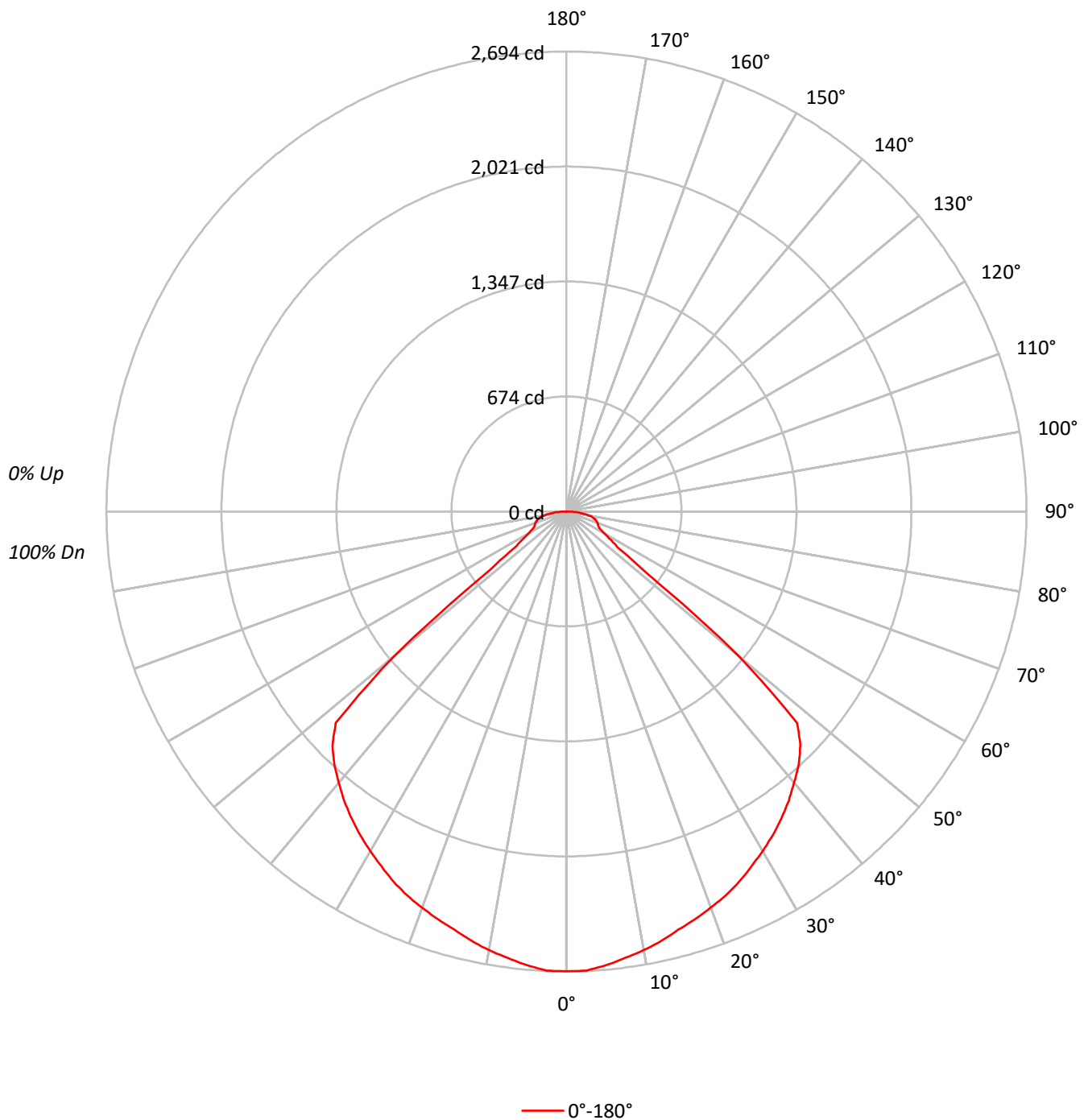
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P979321

CATALOG NUMBER: PRLX-240-927-LL7-C-U-S-WHTE-X

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
RW	70	50	30	10	70	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		100
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		68
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		60
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		53
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		35
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27122
5°	26969
10°	26686
15°	26431
20°	26468
25°	26594
30°	26711
35°	26966
40°	27258
45°	27589
50°	20613
55°	6413
60°	5125
65°	4937
70°	5673
75°	6719
80°	7695
85°	7556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 27589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	4.4
10°-20°	717.7	12.4
20°-30°	1103.6	19.0
30°-40°	1373.8	23.7
40°-50°	1441.3	24.9
50°-60°	445.6	7.7
60°-70°	211.2	3.6
70°-80°	178.4	3.1
80°-90°	73.0	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°	2074.0	35.8
0°-40°	3447.8	59.5
0°-60°	5334.7	92.0
0°-90°	5797.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5797.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2694	
5°	2668	253
15°	2536	718
25°	2394	1104
35°	2194	1374
45°	1938	1441
55°	365	446
65°	207	211
75°	173	178
85°	65	73
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2693.6
2.5°	2691.8
5°	2668.2
7.5°	2637.3
10°	2610.0
12.5°	2575.5
15°	2535.5
17.5°	2504.6
20°	2470.1
22.5°	2435.5
25°	2393.7
27.5°	2344.7
30°	2297.4
32.5°	2248.3
35°	2193.8
37.5°	2137.5
40°	2073.8
42.5°	2012.1
45°	1937.5
47.5°	1832.1
50°	1315.9
52.5°	565.3
55°	365.3
57.5°	303.5
60°	254.5
62.5°	221.7
65°	207.2
67.5°	199.9
70°	192.7
72.5°	183.6
75°	172.7
77.5°	156.3
80°	132.7
82.5°	100.0
85°	65.4
87.5°	36.4
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	14.45	15.87	14.81	16.19	16.50	14.45	15.87	14.81	16.19	16.50
	3H	16.41	17.68	16.79	18.01	18.37	16.41	17.68	16.79	18.01	18.37
	4H	17.57	18.75	17.97	19.10	19.48	17.57	18.75	17.97	19.10	19.48
	6H	18.70	19.79	19.12	20.16	20.55	18.70	19.79	19.12	20.16	20.55
	8H	19.13	20.16	19.56	20.55	20.96	19.13	20.16	19.56	20.55	20.96
	12H	19.43	20.42	19.87	20.81	21.24	19.43	20.42	19.87	20.81	21.24
4H	2H	14.96	16.14	15.36	16.49	16.87	14.96	16.14	15.36	16.49	16.87
	3H	17.33	18.29	17.74	18.70	19.10	17.33	18.29	17.74	18.70	19.10
	4H	18.70	19.57	19.14	19.99	20.43	18.70	19.57	19.14	19.99	20.43
	6H	20.03	20.78	20.49	21.23	21.69	20.03	20.78	20.49	21.23	21.69
	8H	20.53	21.23	20.99	21.68	22.15	20.53	21.23	20.99	21.68	22.15
	12H	20.89	21.52	21.38	22.01	22.48	20.89	21.52	21.38	22.01	22.48
8H	4H	19.24	19.94	19.70	20.39	20.86	19.24	19.94	19.70	20.39	20.86
	6H	20.74	21.33	21.24	21.82	22.30	20.74	21.33	21.24	21.82	22.30
	8H	21.34	21.88	21.86	22.39	22.88	21.34	21.88	21.86	22.39	22.88
	12H	21.83	22.30	22.34	22.80	23.36	21.83	22.30	22.34	22.80	23.36
12H	4H	19.33	19.96	19.82	20.44	20.91	19.33	19.96	19.82	20.44	20.91
	6H	20.88	21.41	21.40	21.92	22.41	20.88	21.41	21.40	21.92	22.41
	8H	21.56	22.04	22.07	22.53	23.10	21.56	22.04	22.07	22.53	23.10