

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979651

Luminaire Tested: PRLX-241-927-74L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-927-74L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

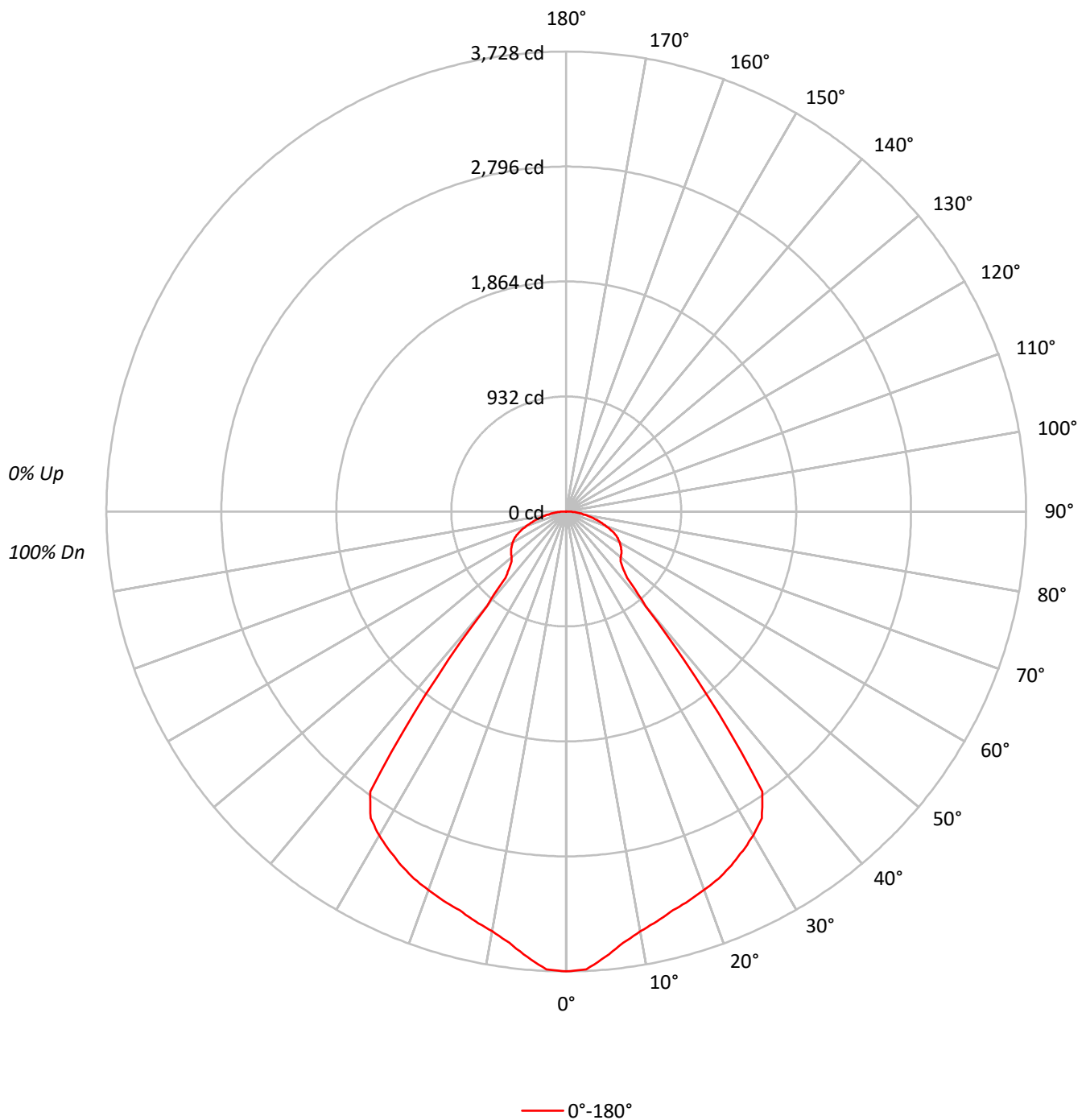
Lumens per Lamp: N/A
Luminaire Lumens: 6014.5 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P979651

CATALOG NUMBER: PRLX-241-927-74L-C-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P979651

CATALOG NUMBER: PRLX-241-927-74L-C-U-S-WHTE-X

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	98	100	98	95		97	94	92		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		68
4	89	79	71	66	87	78	71	65	75	69	65		73	68	64		61
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		55
6	78	66	59	53	76	65	58	53	64	57	52		62	56	52		50
7	73	61	54	48	71	60	53	48	59	53	48		58	52	48		45
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		42
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		38
10	61	49	42	38	60	49	42	37	48	42	37		47	41	37		36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28736
5°	28062
10°	27053
15°	26705
20°	26795
25°	26921
30°	27002
35°	26072
40°	10067
45°	7075
50°	6930
55°	7330
60°	7712
65°	7944
70°	7677
75°	7256
80°	6797
85°	6289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 65°
Luminance: 7944 cd/sqm

TEST NUMBER: P979651

CATALOG NUMBER: PRLX-241-927-74L-C-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	5.7
10°-20°	948.2	15.8
20°-30°	1459.2	24.3
30°-40°	1484.3	24.7
40°-50°	531.7	8.8
50°-60°	486.3	8.1
60°-70°	424.8	7.1
70°-80°	258.4	4.3
80°-90°	81.2	1.4
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°	2747.8	45.7
0°-40°	4232.1	70.4
0°-60°	5250.1	87.3
0°-90°	6014.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6014.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3728	
5°	3626	340
15°	3346	948
25°	3165	1459
35°	2770	1484
45°	649	532
55°	545	486
65°	436	425
75°	244	258
85°	71	81
90°	0	

TEST NUMBER: P979651

CATALOG NUMBER: PRLX-241-927-74L-C-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3727.6
2.5°	3714.7
5°	3626.3
7.5°	3527.1
10°	3455.9
12.5°	3402.0
15°	3346.0
17.5°	3309.3
20°	3266.2
22.5°	3223.1
25°	3164.9
27.5°	3100.2
30°	3033.4
32.5°	2949.3
35°	2770.4
37.5°	1875.7
40°	1000.3
42.5°	728.7
45°	648.9
47.5°	599.3
50°	577.8
52.5°	562.7
55°	545.4
57.5°	523.9
60°	500.2
62.5°	472.1
65°	435.5
67.5°	388.1
70°	340.6
72.5°	291.0
75°	243.6
77.5°	198.3
80°	153.1
82.5°	112.1
85°	71.1
87.5°	38.8
90°	0.0

TEST NUMBER: P979651

CATALOG NUMBER: PRLX-241-927-74L-C-U-S-WHTE-X

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	17.38	18.70	17.74	19.01	19.33	17.38	18.70	17.74	19.01	19.33
	3H	19.54	20.72	19.92	21.05	21.42	19.54	20.72	19.92	21.05	21.42
	4H	20.32	21.43	20.72	21.78	22.16	20.32	21.43	20.72	21.78	22.16
	6H	20.91	21.93	21.32	22.30	22.70	20.91	21.93	21.32	22.30	22.70
	8H	21.11	22.08	21.54	22.47	22.88	21.11	22.08	21.54	22.47	22.88
	12H	21.25	22.18	21.68	22.56	22.99	21.25	22.18	21.68	22.56	22.99
4H	2H	18.13	19.24	18.53	19.59	19.97	18.13	19.24	18.53	19.59	19.97
	3H	20.44	21.37	20.86	21.77	22.18	20.44	21.37	20.86	21.77	22.18
	4H	21.34	22.18	21.77	22.59	23.04	21.34	22.18	21.77	22.59	23.04
	6H	22.05	22.78	22.52	23.22	23.69	22.05	22.78	22.52	23.22	23.69
	8H	22.30	22.98	22.77	23.43	23.90	22.30	22.98	22.77	23.43	23.90
	12H	22.49	23.09	22.98	23.57	24.05	22.49	23.09	22.98	23.57	24.05
8H	4H	21.66	22.34	22.13	22.79	23.26	21.66	22.34	22.13	22.79	23.26
	6H	22.52	23.07	23.02	23.57	24.05	22.52	23.07	23.02	23.57	24.05
	8H	22.86	23.35	23.38	23.87	24.36	22.86	23.35	23.38	23.87	24.36
	12H	23.14	23.57	23.65	24.06	24.63	23.14	23.57	23.65	24.06	24.63
12H	4H	21.69	22.29	22.18	22.77	23.25	21.69	22.29	22.18	22.77	23.25
	6H	22.58	23.08	23.10	23.59	24.08	22.58	23.08	23.10	23.59	24.08
	8H	22.99	23.42	23.50	23.91	24.48	22.99	23.42	23.50	23.91	24.48