

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: P979591

Luminaire Tested: PRLX-241-927-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979591
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-241-927-18L-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

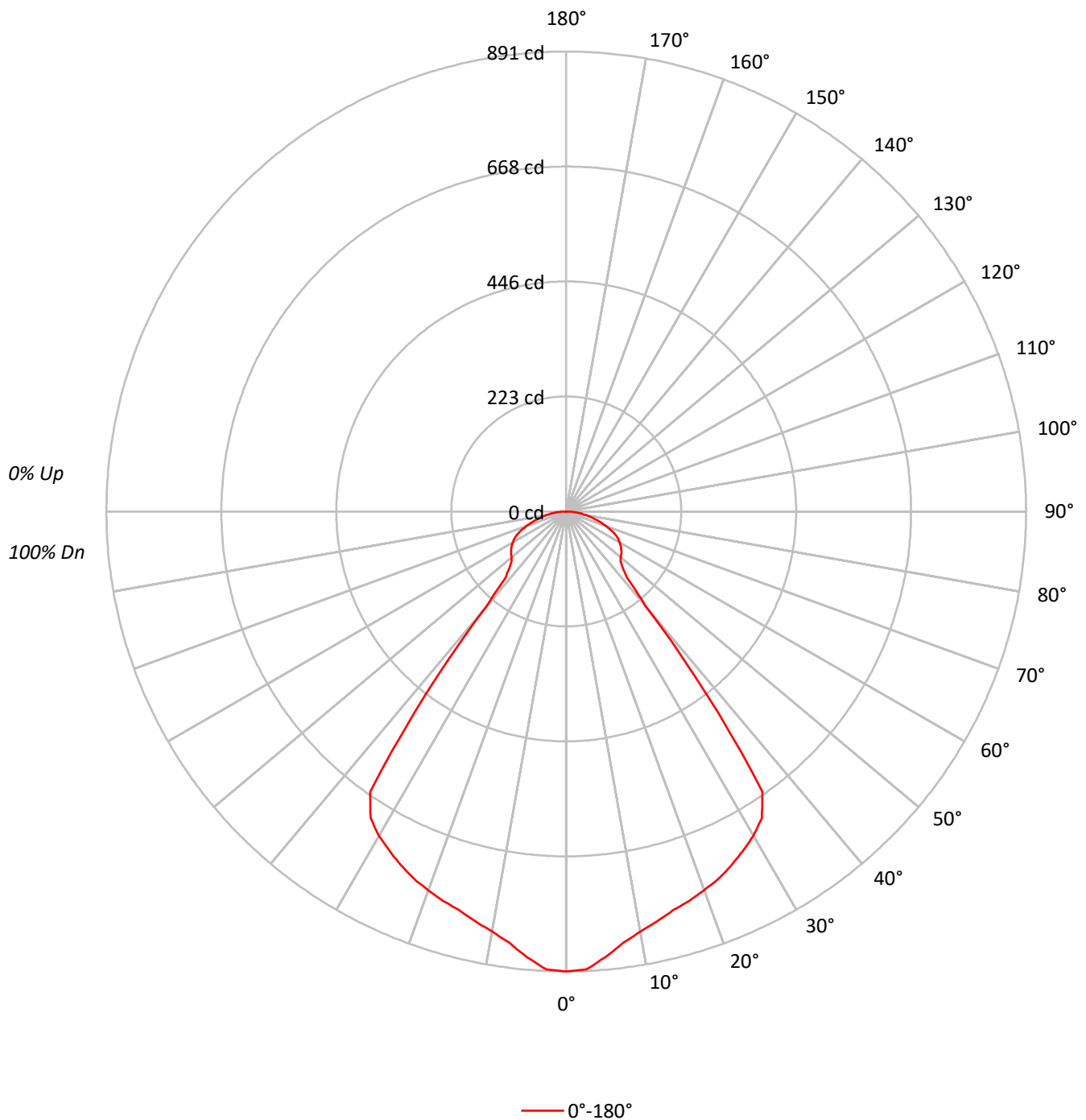
Lumens per Lamp: N/A
Luminaire Lumens: 1437.9 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P979591

CATALOG NUMBER: PRLX-241-927-18L-C-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P979591

CATALOG NUMBER: PRLX-241-927-18L-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°	6870
5°	6709
10°	6468
15°	6384
20°	6406
25°	6436
30°	6456
35°	6233
40°	2407
45°	1691
50°	1656
55°	1753
60°	1844
65°	1899
70°	1835
75°	1734
80°	1625
85°	1504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 1899 cd/sqm

TEST NUMBER: P979591

CATALOG NUMBER: PRLX-241-927-18L-C-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	5.7
10°-20°	226.7	15.8
20°-30°	348.9	24.3
30°-40°	354.8	24.7
40°-50°	127.1	8.8
50°-60°	116.2	8.1
60°-70°	101.6	7.1
70°-80°	61.8	4.3
80°-90°	19.4	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°	656.9	45.7
0°-40°	1011.8	70.4
0°-60°	1255.1	87.3
0°-90°	1437.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	891	
5°	867	81
15°	800	227
25°	757	349
35°	662	355
45°	155	127
55°	130	116
65°	104	102
75°	58	62
85°	17	19
90°	0	

TEST NUMBER: P979591

CATALOG NUMBER: PRLX-241-927-18L-C-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	891.2
2.5°	888.1
5°	866.9
7.5°	843.2
10°	826.2
12.5°	813.3
15°	799.9
17.5°	791.2
20°	780.9
22.5°	770.6
25°	756.6
27.5°	741.2
30°	725.2
32.5°	705.1
35°	662.3
37.5°	448.4
40°	239.2
42.5°	174.2
45°	155.1
47.5°	143.3
50°	138.1
52.5°	134.5
55°	130.4
57.5°	125.2
60°	119.6
62.5°	112.9
65°	104.1
67.5°	92.8
70°	81.4
72.5°	69.6
75°	58.2
77.5°	47.4
80°	36.6
82.5°	26.8
85°	17.0
87.5°	9.3
90°	0.0

TEST NUMBER: P979591

CATALOG NUMBER: PRLX-241-927-18L-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	12.40	13.73	12.77	14.04	14.35	12.40	13.73	12.77	14.04	14.35
	3H	14.56	15.75	14.94	16.08	16.44	14.56	15.75	14.94	16.08	16.44
	4H	15.34	16.46	15.75	16.81	17.19	15.34	16.46	15.75	16.81	17.19
	6H	15.93	16.96	16.35	17.33	17.72	15.93	16.96	16.35	17.33	17.72
	8H	16.14	17.11	16.57	17.50	17.91	16.14	17.11	16.57	17.50	17.91
	12H	16.28	17.21	16.71	17.59	18.02	16.28	17.21	16.71	17.59	18.02
4H	2H	13.15	14.26	13.55	14.61	15.00	13.15	14.26	13.55	14.61	15.00
	3H	15.47	16.40	15.88	16.80	17.20	15.47	16.40	15.88	16.80	17.20
	4H	16.37	17.20	16.80	17.62	18.06	16.37	17.20	16.80	17.62	18.06
	6H	17.08	17.81	17.54	18.25	18.72	17.08	17.81	17.54	18.25	18.72
	8H	17.33	18.01	17.80	18.46	18.93	17.33	18.01	17.80	18.46	18.93
	12H	17.52	18.12	18.00	18.60	19.07	17.52	18.12	18.00	18.60	19.07
8H	4H	16.69	17.37	17.16	17.81	18.28	16.69	17.37	17.16	17.81	18.28
	6H	17.54	18.10	18.05	18.59	19.07	17.54	18.10	18.05	18.59	19.07
	8H	17.88	18.38	18.40	18.89	19.38	17.88	18.38	18.40	18.89	19.38
	12H	18.17	18.60	18.68	19.09	19.66	18.17	18.60	18.68	19.09	19.66
12H	4H	16.72	17.32	17.20	17.80	18.27	16.72	17.32	17.20	17.80	18.27
	6H	17.61	18.10	18.13	18.62	19.11	17.61	18.10	18.13	18.62	19.11
	8H	18.01	18.44	18.53	18.94	19.51	18.01	18.44	18.53	18.94	19.51