

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: P979993

Luminaire Tested: PRLX-242-930-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

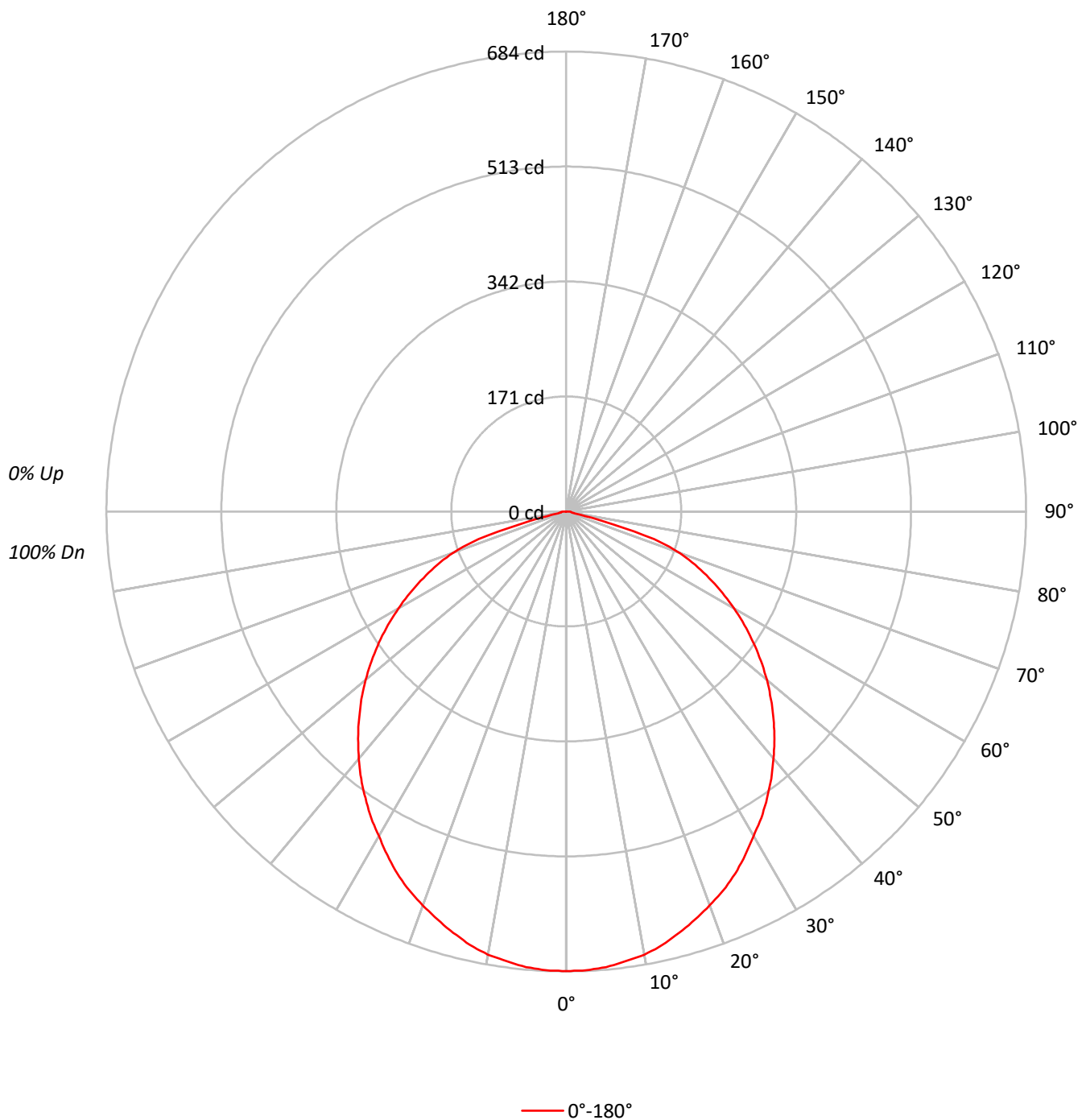
Lumens per Lamp: N/A
Luminaire Lumens: 1803.2 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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: P979993

CATALOG NUMBER: PRLX-242-930-18L-F-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P979993

CATALOG NUMBER: PRLX-242-930-18L-F-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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3059
5°	3056
10°	3042
15°	3005
20°	2969
25°	2935
30°	2880
35°	2845
40°	2803
45°	2759
50°	2712
55°	2652
60°	2578
65°	2482
70°	2345
75°	973
80°	211
85°	339

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2759 cd/sqm

TEST NUMBER: P979993

CATALOG NUMBER: PRLX-242-930-18L-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	3.6
10°-20°	183.0	10.2
20°-30°	273.5	15.2
30°-40°	325.8	18.1
40°-50°	336.4	18.7
50°-60°	303.7	16.8
60°-70°	231.9	12.9
70°-80°	78.3	4.3
80°-90°	6.0	0.3
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°	521.1	28.9
0°-40°	847.0	47.0
0°-60°	1487.0	82.5
0°-90°	1803.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	684	
5°	680	65
15°	649	183
25°	594	274
35°	521	326
45°	436	336
55°	340	304
65°	234	232
75°	56	78
85°	7	6
90°	0	

TEST NUMBER: P979993

CATALOG NUMBER: PRLX-242-930-18L-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	683.6
2.5°	683.0
5°	680.3
7.5°	674.8
10°	669.4
12.5°	660.6
15°	648.6
17.5°	636.6
20°	623.5
22.5°	610.3
25°	594.5
27.5°	576.5
30°	557.3
32.5°	540.4
35°	520.7
37.5°	501.1
40°	479.8
42.5°	458.4
45°	436.0
47.5°	413.1
50°	389.6
52.5°	365.0
55°	339.9
57.5°	314.2
60°	288.0
62.5°	261.7
65°	234.4
67.5°	207.6
70°	179.2
72.5°	137.1
75°	56.3
77.5°	12.0
80°	8.2
82.5°	7.6
85°	6.6
87.5°	3.8
90°	0.0

TEST NUMBER: P979993

CATALOG NUMBER: PRLX-242-930-18L-F-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	15.74	17.35	16.11	17.66	17.97	15.74	17.35	16.11	17.66	17.97
	3H	17.57	19.01	17.94	19.34	19.70	17.57	19.01	17.94	19.34	19.70
	4H	17.80	19.15	18.20	19.50	19.88	17.80	19.15	18.20	19.50	19.88
	6H	17.75	19.00	18.16	19.36	19.76	17.75	19.00	18.16	19.36	19.76
	8H	17.72	18.91	18.14	19.30	19.70	17.72	18.91	18.14	19.30	19.70
	12H	17.70	18.84	18.13	19.22	19.65	17.70	18.84	18.13	19.22	19.65
4H	2H	16.39	17.75	16.79	18.09	18.47	16.39	17.75	16.79	18.09	18.47
	3H	18.40	19.52	18.81	19.92	20.32	18.40	19.52	18.81	19.92	20.32
	4H	18.61	19.62	19.04	20.04	20.47	18.61	19.62	19.04	20.04	20.47
	6H	18.57	19.45	19.03	19.89	20.35	18.57	19.45	19.03	19.89	20.35
	8H	18.54	19.36	19.00	19.80	20.27	18.54	19.36	19.00	19.80	20.27
	12H	18.53	19.25	19.01	19.73	20.20	18.53	19.25	19.01	19.73	20.20
8H	4H	18.67	19.48	19.13	19.93	20.39	18.67	19.48	19.13	19.93	20.39
	6H	18.61	19.28	19.11	19.77	20.25	18.61	19.28	19.11	19.77	20.25
	8H	18.58	19.18	19.09	19.69	20.17	18.58	19.18	19.09	19.69	20.17
	12H	18.57	19.09	19.08	19.59	20.15	18.57	19.09	19.08	19.59	20.15
12H	4H	18.64	19.37	19.12	19.85	20.32	18.64	19.37	19.12	19.85	20.32
	6H	18.57	19.17	19.08	19.68	20.17	18.57	19.17	19.08	19.68	20.17
	8H	18.56	19.09	19.07	19.58	20.14	18.56	19.09	19.07	19.58	20.14