

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: P980313

Luminaire Tested: PRLX-243-930-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-930-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

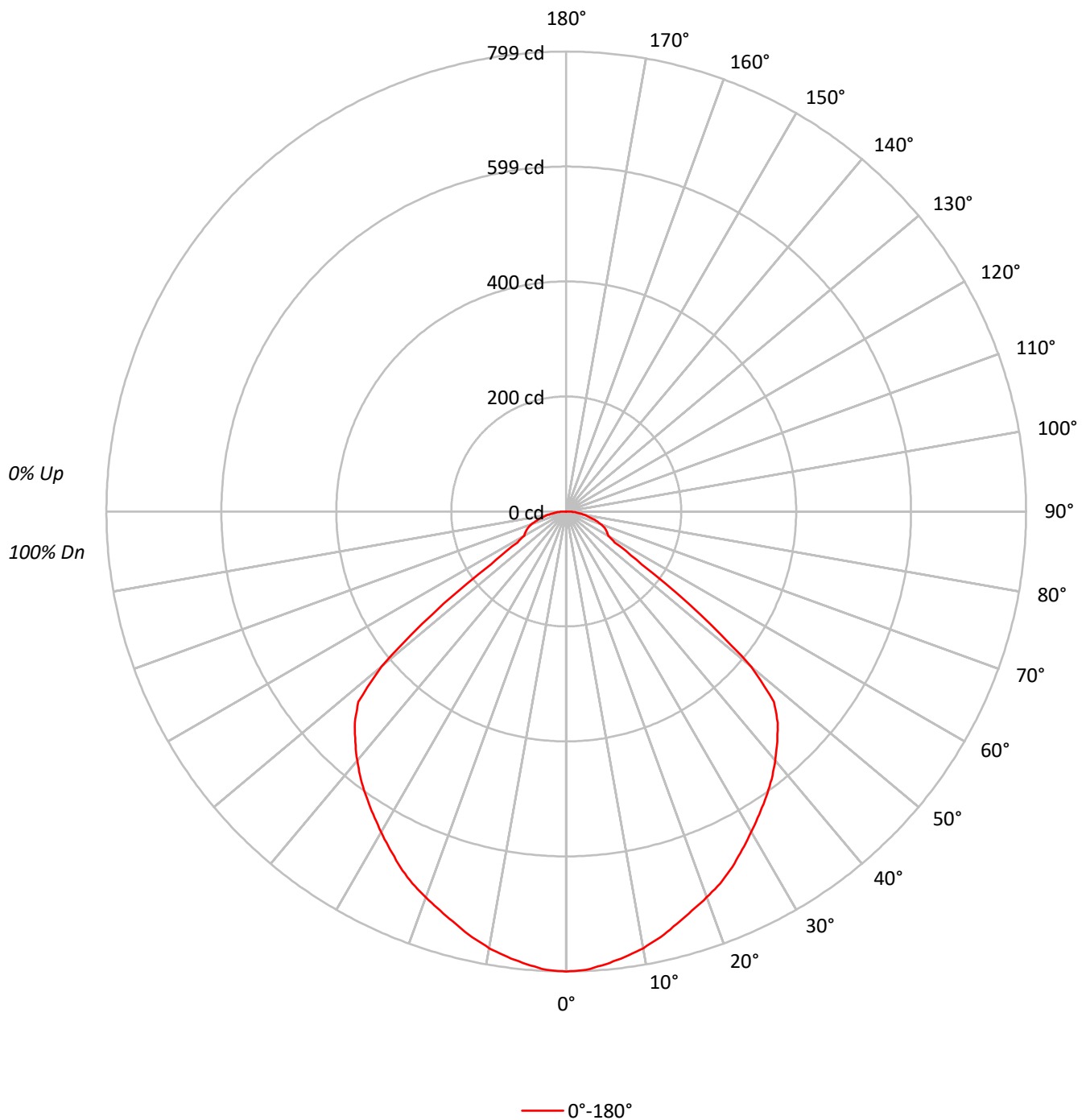
Lumens per Lamp: N/A
Luminaire Lumens: 1689.5 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.35
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: P980313

CATALOG NUMBER: PRLX-243-930-18L-F-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P980313

CATALOG NUMBER: PRLX-243-930-18L-F-U-S-WHTE-X

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
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	90	86	82		87	84	80		77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		67
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		52
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		42
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3944
5°	3911
10°	3860
15°	3790
20°	3747
25°	3712
30°	3664
35°	3646
40°	3639
45°	3625
50°	3217
55°	1377
60°	830
65°	887
70°	915
75°	885
80°	855
85°	866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3625 cd/sqm

TEST NUMBER: P980313

CATALOG NUMBER: PRLX-243-930-18L-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	4.4
10°-20°	209.5	12.4
20°-30°	314.0	18.6
30°-40°	379.1	22.4
40°-50°	394.3	23.3
50°-60°	177.4	10.5
60°-70°	74.5	4.4
70°-80°	49.2	2.9
80°-90°	16.7	1.0
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°	598.3	35.4
0°-40°	977.4	57.9
0°-60°	1549.1	91.7
0°-90°	1689.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1689.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	799	
5°	790	75
15°	742	210
25°	682	314
35°	605	379
45°	520	394
55°	160	177
65°	76	74
75°	46	49
85°	15	17
90°	0	

TEST NUMBER: P980313

CATALOG NUMBER: PRLX-243-930-18L-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	799.4
2.5°	797.2
5°	789.6
7.5°	780.8
10°	770.4
12.5°	757.3
15°	742.0
17.5°	727.3
20°	713.6
22.5°	699.4
25°	681.9
27.5°	662.3
30°	643.1
32.5°	624.0
35°	605.4
37.5°	586.3
40°	565.0
42.5°	542.6
45°	519.6
47.5°	489.6
50°	419.1
52.5°	292.9
55°	160.1
57.5°	100.0
60°	84.1
62.5°	80.3
65°	76.0
67.5°	70.5
70°	63.4
72.5°	55.2
75°	46.4
77.5°	38.2
80°	30.1
82.5°	22.4
85°	15.3
87.5°	8.7
90°	0.0

TEST NUMBER: P980313

CATALOG NUMBER: PRLX-243-930-18L-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	8.51	9.96	8.88	10.27	10.59	8.51	9.96	8.88	10.27	10.59
	3H	10.60	11.89	10.98	12.22	12.58	10.60	11.89	10.98	12.22	12.58
	4H	11.43	12.63	11.83	12.98	13.36	11.43	12.63	11.83	12.98	13.36
	6H	12.08	13.18	12.49	13.55	13.94	12.08	13.18	12.49	13.55	13.94
	8H	12.31	13.36	12.74	13.75	14.15	12.31	13.36	12.74	13.75	14.15
	12H	12.49	13.50	12.92	13.88	14.31	12.49	13.50	12.92	13.88	14.31
4H	2H	9.17	10.38	9.58	10.73	11.11	9.17	10.38	9.58	10.73	11.11
	3H	11.52	12.50	11.93	12.90	13.30	11.52	12.50	11.93	12.90	13.30
	4H	12.48	13.36	12.91	13.78	14.22	12.48	13.36	12.91	13.78	14.22
	6H	13.26	14.02	13.72	14.47	14.93	13.26	14.02	13.72	14.47	14.93
	8H	13.54	14.26	14.01	14.71	15.17	13.54	14.26	14.01	14.71	15.17
	12H	13.78	14.42	14.26	14.90	15.37	13.78	14.42	14.26	14.90	15.37
8H	4H	12.83	13.54	13.30	13.99	14.46	12.83	13.54	13.30	13.99	14.46
	6H	13.75	14.35	14.25	14.84	15.32	13.75	14.35	14.25	14.84	15.32
	8H	14.13	14.67	14.65	15.18	15.67	14.13	14.67	14.65	15.18	15.67
	12H	14.47	14.95	14.98	15.44	16.01	14.47	14.95	14.98	15.44	16.01
12H	4H	12.87	13.50	13.35	13.98	14.46	12.87	13.50	13.35	13.98	14.46
	6H	13.82	14.36	14.34	14.87	15.36	13.82	14.36	14.34	14.87	15.36
	8H	14.27	14.75	14.78	15.24	15.81	14.27	14.75	14.78	15.24	15.81

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7