

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: P979433

Luminaire Tested: PRLX-240-935-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

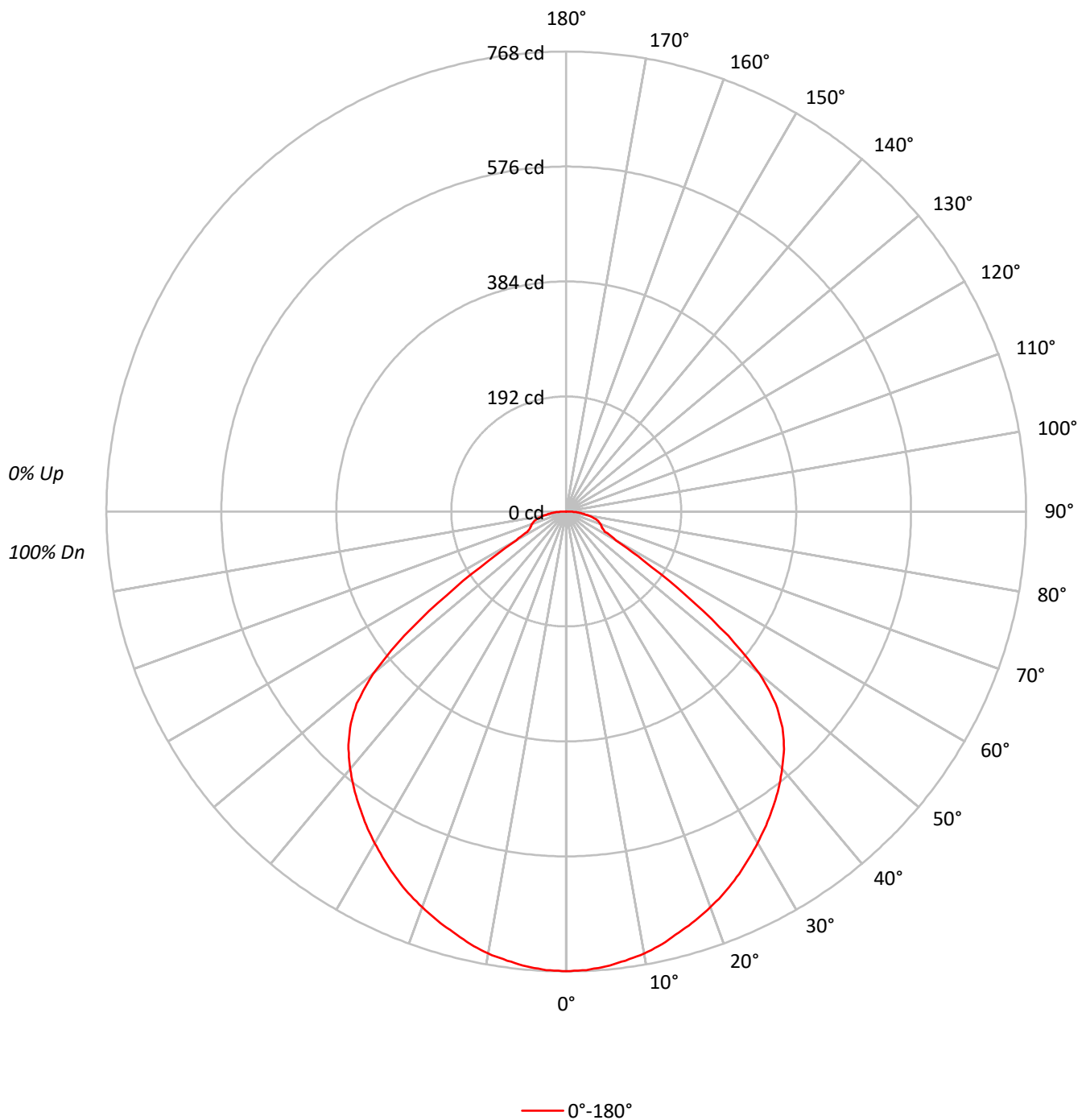
Lumens per Lamp: N/A
Luminaire Lumens: 1718.1 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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: P979433

CATALOG NUMBER: PRLX-240-935-18L-F-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P979433

CATALOG NUMBER: PRLX-240-935-18L-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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7730
5°	7709
10°	7665
15°	7586
20°	7537
25°	7488
30°	7436
35°	7403
40°	7375
45°	7275
50°	6589
55°	4282
60°	1933
65°	1587
70°	1796
75°	2000
80°	2093
85°	2149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7275 cd/sqm

TEST NUMBER: P979433

CATALOG NUMBER: PRLX-240-935-18L-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	4.2
10°-20°	205.6	12.0
20°-30°	310.7	18.1
30°-40°	377.0	21.9
40°-50°	388.7	22.6
50°-60°	220.5	12.8
60°-70°	69.7	4.1
70°-80°	53.2	3.1
80°-90°	20.3	1.2
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°	588.7	34.3
0°-40°	965.7	56.2
0°-60°	1574.9	91.7
0°-90°	1718.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	768	
5°	763	72
15°	728	206
25°	674	311
35°	602	377
45°	511	389
55°	244	220
65°	67	70
75°	51	53
85°	19	20
90°	0	

TEST NUMBER: P979433

CATALOG NUMBER: PRLX-240-935-18L-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	767.7
2.5°	766.6
5°	762.7
7.5°	756.5
10°	749.7
12.5°	740.1
15°	727.7
17.5°	716.4
20°	703.4
22.5°	689.8
25°	674.0
27.5°	657.1
30°	639.6
32.5°	621.5
35°	602.3
37.5°	582.6
40°	561.1
42.5°	538.5
45°	510.9
47.5°	474.8
50°	420.6
52.5°	341.0
55°	243.9
57.5°	153.0
60°	96.0
62.5°	72.8
65°	66.6
67.5°	63.8
70°	61.0
72.5°	57.0
75°	51.4
77.5°	44.6
80°	36.1
82.5°	27.7
85°	18.6
87.5°	10.2
90°	0.0

TEST NUMBER: P979433

CATALOG NUMBER: PRLX-240-935-18L-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	13.74	15.21	14.11	15.53	15.84	13.74	15.21	14.11	15.53	15.84
	3H	14.64	15.94	15.01	16.27	16.63	14.64	15.94	15.01	16.27	16.63
	4H	15.24	16.46	15.64	16.81	17.19	15.24	16.46	15.64	16.81	17.19
	6H	15.84	16.97	16.26	17.33	17.73	15.84	16.97	16.26	17.33	17.73
	8H	16.08	17.15	16.51	17.54	17.94	16.08	17.15	16.51	17.54	17.94
	12H	16.26	17.29	16.70	17.67	18.10	16.26	17.29	16.70	17.67	18.10
4H	2H	13.87	15.09	14.27	15.44	15.82	13.87	15.09	14.27	15.44	15.82
	3H	15.11	16.11	15.52	16.51	16.91	15.11	16.11	15.52	16.51	16.91
	4H	15.93	16.83	16.37	17.25	17.69	15.93	16.83	16.37	17.25	17.69
	6H	16.74	17.52	17.20	17.96	18.42	16.74	17.52	17.20	17.96	18.42
	8H	17.06	17.79	17.52	18.23	18.70	17.06	17.79	17.52	18.23	18.70
	12H	17.32	17.97	17.80	18.45	18.92	17.32	17.97	17.80	18.45	18.92
8H	4H	16.25	16.98	16.71	17.42	17.89	16.25	16.98	16.71	17.42	17.89
	6H	17.22	17.82	17.71	18.32	18.79	17.22	17.82	17.71	18.32	18.79
	8H	17.64	18.19	18.15	18.70	19.19	17.64	18.19	18.15	18.70	19.19
	12H	18.01	18.50	18.52	18.99	19.56	18.01	18.50	18.52	18.99	19.56
12H	4H	16.29	16.94	16.77	17.42	17.89	16.29	16.94	16.77	17.42	17.89
	6H	17.30	17.85	17.81	18.36	18.85	17.30	17.85	17.81	18.36	18.85
	8H	17.79	18.28	18.30	18.78	19.34	17.79	18.28	18.30	18.78	19.34