

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: P979751

Luminaire Tested: PRLX-241-935-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979751
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-241-935-18L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

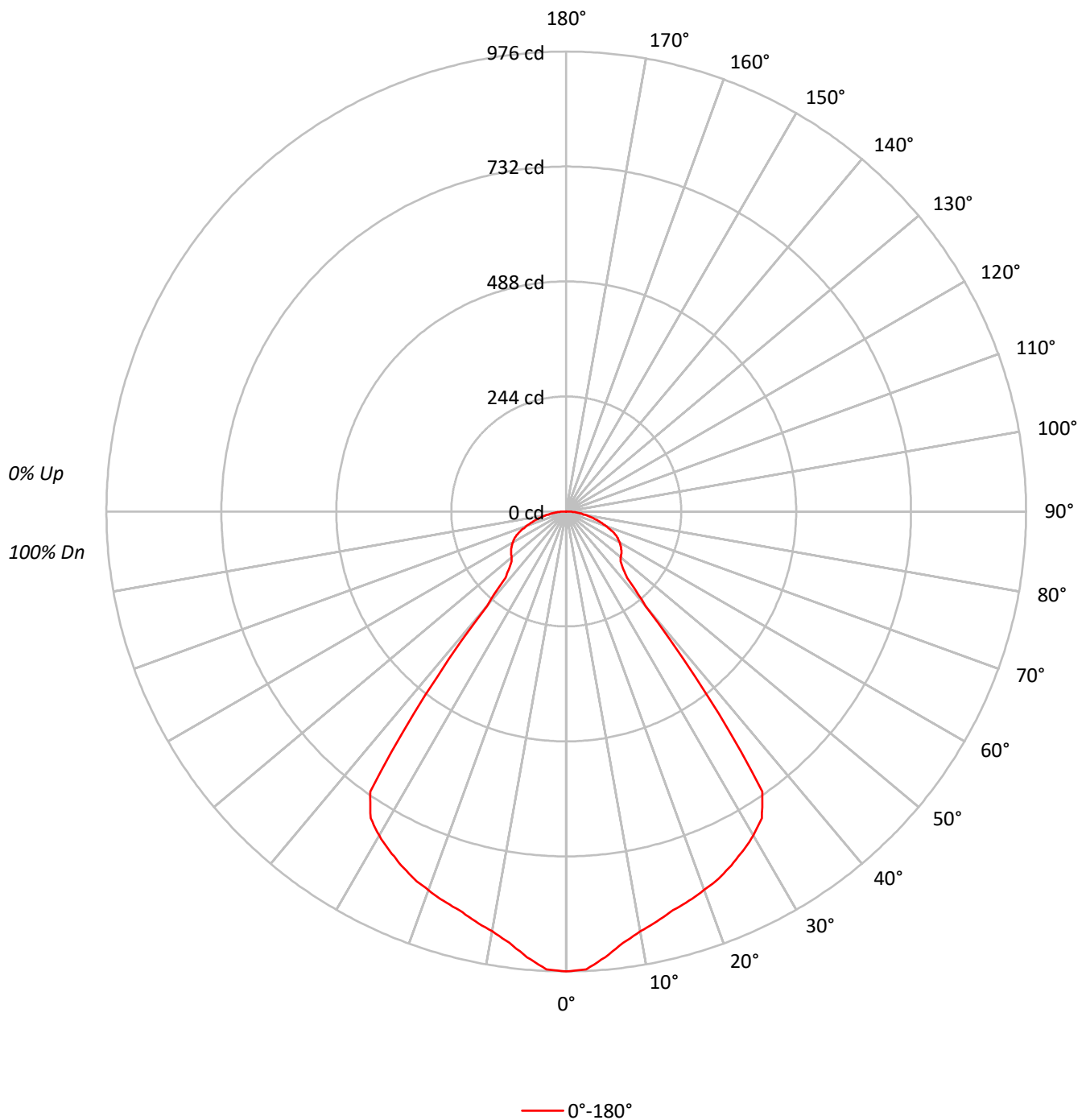
Lumens per Lamp: N/A
Luminaire Lumens: 1574.9 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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: P979751

CATALOG NUMBER: PRLX-241-935-18L-C-U-S-WHTE-X

Luminous Intensity Polar Plot



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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°	7524
5°	7348
10°	7084
15°	6992
20°	7016
25°	7049
30°	7071
35°	6827
40°	2636
45°	1852
50°	1815
55°	1919
60°	2020
65°	2080
70°	2011
75°	1900
80°	1780
85°	1645

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 65°
Luminance: 2080 cd/sqm

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CATALOG NUMBER: PRLX-241-935-18L-C-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	5.7
10°-20°	248.3	15.8
20°-30°	382.1	24.3
30°-40°	388.6	24.7
40°-50°	139.2	8.8
50°-60°	127.3	8.1
60°-70°	111.2	7.1
70°-80°	67.7	4.3
80°-90°	21.3	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°	719.5	45.7
0°-40°	1108.1	70.4
0°-60°	1374.7	87.3
0°-90°	1574.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1574.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	976	
5°	950	89
15°	876	248
25°	829	382
35°	725	389
45°	170	139
55°	143	127
65°	114	111
75°	64	68
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	976.0
2.5°	972.7
5°	949.5
7.5°	923.5
10°	904.9
12.5°	890.8
15°	876.1
17.5°	866.5
20°	855.2
22.5°	844.0
25°	828.7
27.5°	811.8
30°	794.3
32.5°	772.3
35°	725.4
37.5°	491.1
40°	261.9
42.5°	190.8
45°	169.9
47.5°	156.9
50°	151.3
52.5°	147.3
55°	142.8
57.5°	137.2
60°	131.0
62.5°	123.6
65°	114.0
67.5°	101.6
70°	89.2
72.5°	76.2
75°	63.8
77.5°	51.9
80°	40.1
82.5°	29.4
85°	18.6
87.5°	10.2
90°	0.0

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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	12.72	14.05	13.09	14.36	14.67	12.72	14.05	13.09	14.36	14.67
	3H	14.88	16.07	15.26	16.40	16.76	14.88	16.07	15.26	16.40	16.76
	4H	15.66	16.77	16.07	17.13	17.51	15.66	16.77	16.07	17.13	17.51
	6H	16.25	17.28	16.67	17.65	18.04	16.25	17.28	16.67	17.65	18.04
	8H	16.45	17.43	16.88	17.82	18.22	16.45	17.43	16.88	17.82	18.22
	12H	16.59	17.53	17.03	17.91	18.34	16.59	17.53	17.03	17.91	18.34
4H	2H	13.47	14.58	13.87	14.93	15.32	13.47	14.58	13.87	14.93	15.32
	3H	15.79	16.71	16.20	17.12	17.52	15.79	16.71	16.20	17.12	17.52
	4H	16.68	17.52	17.12	17.94	18.38	16.68	17.52	17.12	17.94	18.38
	6H	17.40	18.12	17.86	18.57	19.03	17.40	18.12	17.86	18.57	19.03
	8H	17.65	18.33	18.12	18.77	19.24	17.65	18.33	18.12	18.77	19.24
	12H	17.84	18.44	18.32	18.92	19.39	17.84	18.44	18.32	18.92	19.39
8H	4H	17.01	17.68	17.47	18.13	18.60	17.01	17.68	17.47	18.13	18.60
	6H	17.86	18.42	18.36	18.91	19.39	17.86	18.42	18.36	18.91	19.39
	8H	18.20	18.70	18.72	19.21	19.70	18.20	18.70	18.72	19.21	19.70
	12H	18.48	18.92	19.00	19.41	19.98	18.48	18.92	19.00	19.41	19.98
12H	4H	17.04	17.64	17.52	18.12	18.59	17.04	17.64	17.52	18.12	18.59
	6H	17.93	18.42	18.45	18.93	19.43	17.93	18.42	18.45	18.93	19.43
	8H	18.33	18.76	18.85	19.26	19.83	18.33	18.76	18.85	19.26	19.83