

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: P979493

Luminaire Tested: PRLX-240-935-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979493
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-240-935-74L-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

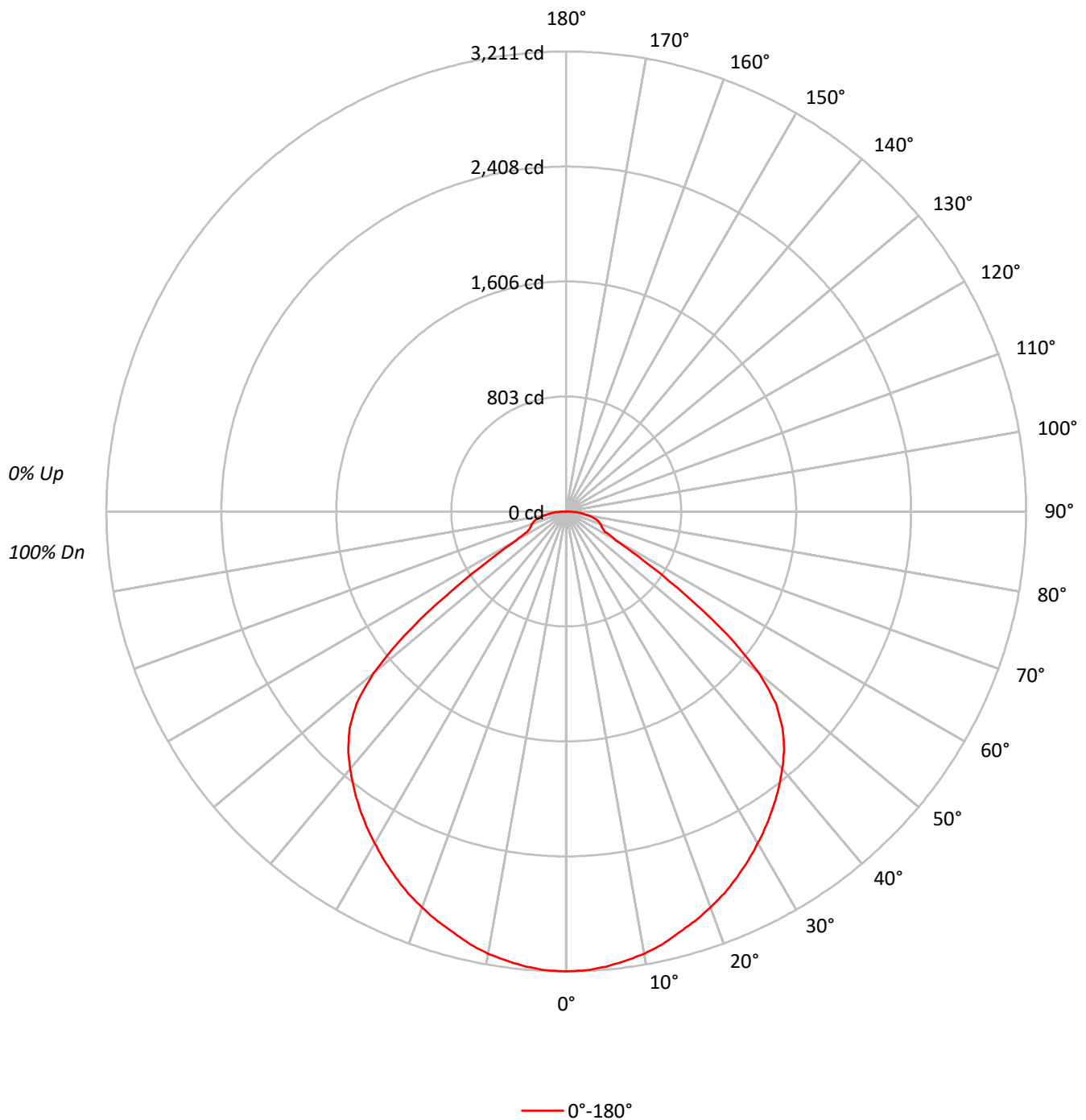
Lumens per Lamp: N/A
Luminaire Lumens: 7186.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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: P979493

CATALOG NUMBER: PRLX-240-935-74L-F-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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32335
5°	32244
10°	32061
15°	31728
20°	31526
25°	31323
30°	31105
35°	30970
40°	30851
45°	30430
50°	27557
55°	17908
60°	8083
65°	6638
70°	7507
75°	8360
80°	8762
85°	9000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 30430 cd/sqm

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CATALOG NUMBER: PRLX-240-935-74L-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	4.2
10°-20°	860.0	12.0
20°-30°	1299.6	18.1
30°-40°	1577.1	21.9
40°-50°	1625.9	22.6
50°-60°	922.1	12.8
60°-70°	291.6	4.1
70°-80°	222.5	3.1
80°-90°	84.8	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°	2462.2	34.3
0°-40°	4039.3	56.2
0°-60°	6587.3	91.7
0°-90°	7186.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7186.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3211	
5°	3190	303
15°	3044	860
25°	2819	1300
35°	2520	1577
45°	2137	1626
55°	1020	922
65°	279	292
75°	215	223
85°	78	85
90°	0	

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CATALOG NUMBER: PRLX-240-935-74L-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3211.3
2.5°	3206.6
5°	3190.1
7.5°	3164.1
10°	3135.8
12.5°	3095.6
15°	3043.7
17.5°	2996.5
20°	2942.2
22.5°	2885.5
25°	2819.4
27.5°	2748.5
30°	2675.3
32.5°	2599.8
35°	2519.5
37.5°	2436.8
40°	2347.1
42.5°	2252.7
45°	2137.0
47.5°	1985.8
50°	1759.2
52.5°	1426.2
55°	1020.1
57.5°	639.9
60°	401.4
62.5°	304.6
65°	278.6
67.5°	266.8
70°	255.0
72.5°	238.5
75°	214.9
77.5°	186.5
80°	151.1
82.5°	115.7
85°	77.9
87.5°	42.5
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	18.71	20.18	19.08	20.50	20.81	18.71	20.18	19.08	20.50	20.81
	3H	19.61	20.91	19.98	21.24	21.60	19.61	20.91	19.98	21.24	21.60
	4H	20.21	21.43	20.62	21.78	22.16	20.21	21.43	20.62	21.78	22.16
	6H	20.81	21.94	21.23	22.30	22.70	20.81	21.94	21.23	22.30	22.70
	8H	21.05	22.12	21.48	22.51	22.91	21.05	22.12	21.48	22.51	22.91
	12H	21.24	22.26	21.67	22.64	23.07	21.24	22.26	21.67	22.64	23.07
4H	2H	18.84	20.06	19.24	20.41	20.79	18.84	20.06	19.24	20.41	20.79
	3H	20.08	21.08	20.49	21.48	21.88	20.08	21.08	20.49	21.48	21.88
	4H	20.90	21.80	21.34	22.22	22.66	20.90	21.80	21.34	22.22	22.66
	6H	21.71	22.49	22.17	22.93	23.39	21.71	22.49	22.17	22.93	23.39
	8H	22.03	22.76	22.49	23.20	23.67	22.03	22.76	22.49	23.20	23.67
	12H	22.29	22.94	22.77	23.42	23.89	22.29	22.94	22.77	23.42	23.89
8H	4H	21.22	21.95	21.68	22.39	22.86	21.22	21.95	21.68	22.39	22.86
	6H	22.19	22.79	22.68	23.29	23.77	22.19	22.79	22.68	23.29	23.77
	8H	22.61	23.16	23.12	23.67	24.16	22.61	23.16	23.12	23.67	24.16
	12H	22.98	23.47	23.49	23.96	24.53	22.98	23.47	23.49	23.96	24.53
12H	4H	21.26	21.91	21.74	22.39	22.86	21.26	21.91	21.74	22.39	22.86
	6H	22.27	22.82	22.78	23.33	23.82	22.27	22.82	22.78	23.33	23.82
	8H	22.76	23.25	23.27	23.75	24.31	22.76	23.25	23.27	23.75	24.31