

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: P979573

Luminaire Tested: PRLX-240-940-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979573
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-240-940-74L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

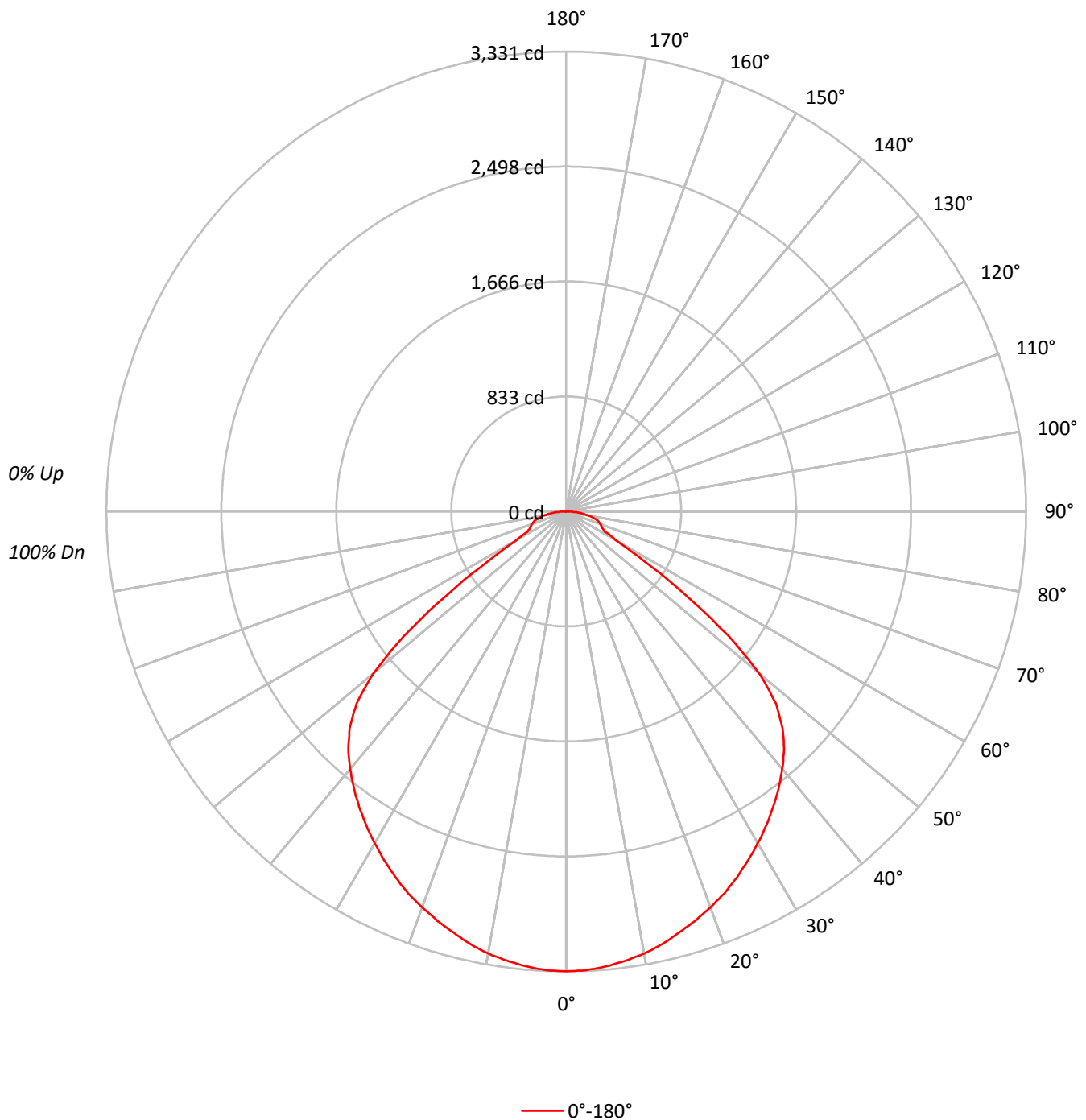
Lumens per Lamp: N/A
Luminaire Lumens: 7453.4 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	33537
5°	33443
10°	33253
15°	32907
20°	32697
25°	32488
30°	32262
35°	32120
40°	31998
45°	31561
50°	28580
55°	18573
60°	8383
65°	6886
70°	7787
75°	8672
80°	9086
85°	9335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.0	4.2
10°-20°	891.9	12.0
20°-30°	1347.9	18.1
30°-40°	1635.7	21.9
40°-50°	1686.3	22.6
50°-60°	956.4	12.8
60°-70°	302.5	4.1
70°-80°	230.8	3.1
80°-90°	88.0	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°	2553.8	34.3
0°-40°	4189.4	56.2
0°-60°	6832.1	91.7
0°-90°	7453.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7453.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3331	
5°	3309	314
15°	3157	892
25°	2924	1348
35°	2613	1636
45°	2216	1686
55°	1058	956
65°	289	302
75°	223	231
85°	81	88
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3330.7
2.5°	3325.8
5°	3308.7
7.5°	3281.7
10°	3252.3
12.5°	3210.7
15°	3156.8
17.5°	3107.8
20°	3051.5
22.5°	2992.7
25°	2924.2
27.5°	2850.7
30°	2774.8
32.5°	2696.4
35°	2613.1
37.5°	2527.4
40°	2434.4
42.5°	2336.4
45°	2216.4
47.5°	2059.6
50°	1824.5
52.5°	1479.2
55°	1058.0
57.5°	663.7
60°	416.3
62.5°	315.9
65°	289.0
67.5°	276.7
70°	264.5
72.5°	247.4
75°	222.9
77.5°	193.5
80°	156.7
82.5°	120.0
85°	80.8
87.5°	44.1
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	18.84	20.31	19.21	20.62	20.94	18.84	20.31	19.21	20.62	20.94
	3H	19.73	21.04	20.11	21.37	21.73	19.73	21.04	20.11	21.37	21.73
	4H	20.34	21.56	20.74	21.91	22.29	20.34	21.56	20.74	21.91	22.29
	6H	20.94	22.06	21.35	22.43	22.82	20.94	22.06	21.35	22.43	22.82
	8H	21.18	22.25	21.60	22.64	23.04	21.18	22.25	21.60	22.64	23.04
	12H	21.36	22.38	21.79	22.77	23.20	21.36	22.38	21.79	22.77	23.20
4H	2H	18.97	20.19	19.37	20.54	20.92	18.97	20.19	19.37	20.54	20.92
	3H	20.21	21.21	20.62	21.61	22.01	20.21	21.21	20.62	21.61	22.01
	4H	21.03	21.93	21.46	22.34	22.78	21.03	21.93	21.46	22.34	22.78
	6H	21.84	22.62	22.30	23.06	23.52	21.84	22.62	22.30	23.06	23.52
	8H	22.16	22.88	22.62	23.33	23.80	22.16	22.88	22.62	23.33	23.80
	12H	22.42	23.07	22.90	23.55	24.02	22.42	23.07	22.90	23.55	24.02
8H	4H	21.34	22.07	21.81	22.52	22.99	21.34	22.07	21.81	22.52	22.99
	6H	22.31	22.92	22.81	23.41	23.89	22.31	22.92	22.81	23.41	23.89
	8H	22.73	23.29	23.25	23.80	24.29	22.73	23.29	23.25	23.80	24.29
	12H	23.10	23.60	23.61	24.09	24.66	23.10	23.60	23.61	24.09	24.66
12H	4H	21.39	22.04	21.87	22.52	22.99	21.39	22.04	21.87	22.52	22.99
	6H	22.39	22.95	22.91	23.46	23.95	22.39	22.95	22.91	23.46	23.95
	8H	22.89	23.38	23.40	23.87	24.44	22.89	23.38	23.40	23.87	24.44