

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: P980051

Luminaire Tested: PRLX-242-930-74L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-74L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

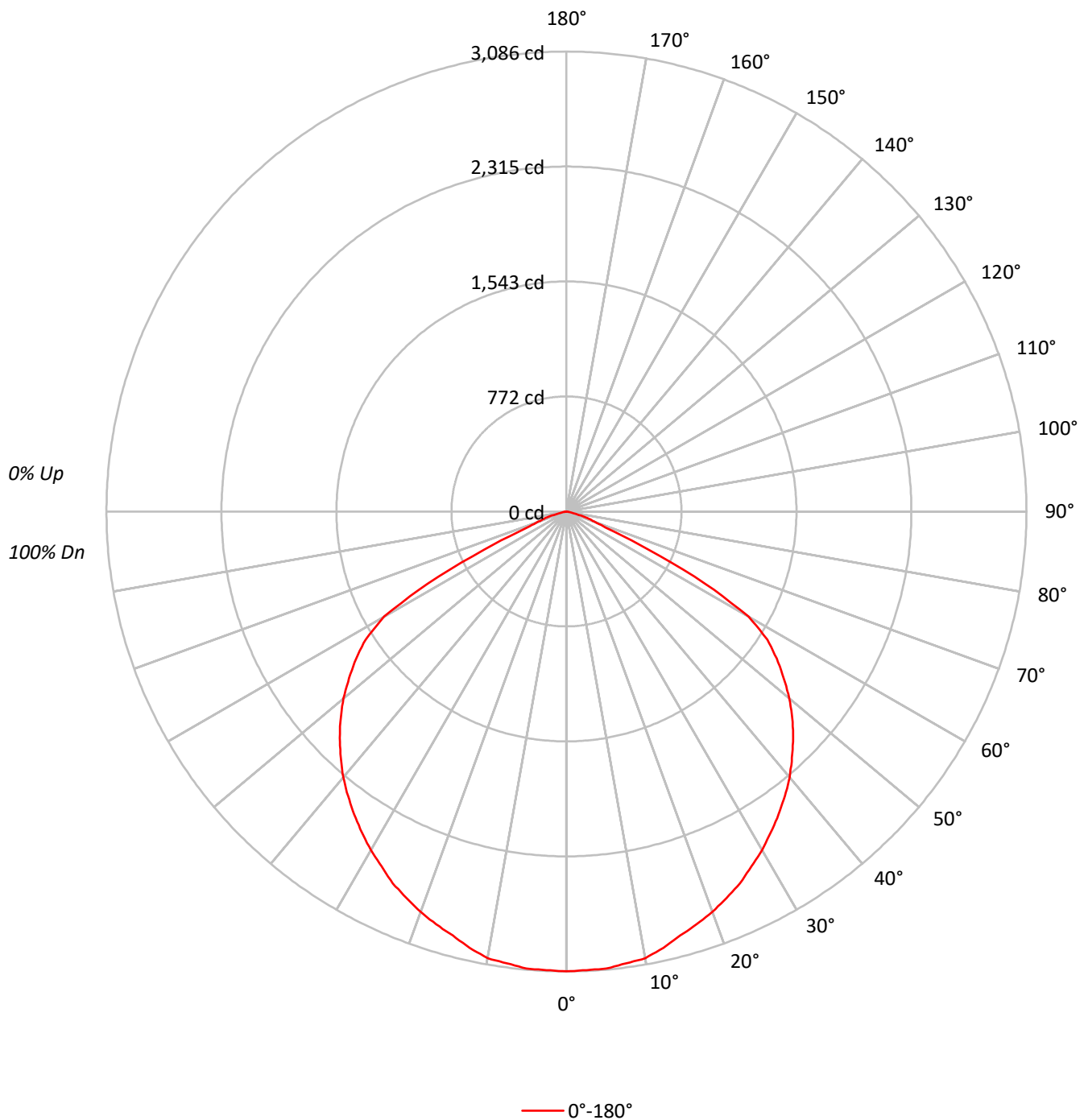
Lumens per Lamp: N/A
Luminaire Lumens: 7906.1 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		88
2	102	95	89	84	99	93	87	83	89	85	81		86	82	79		75
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	60	83	73	66	60	71	64	59		69	63	58		56
5	79	67	58	52	77	66	58	52	64	57	51		62	56	51		48
6	73	60	52	46	71	59	51	45	57	50	45		56	49	45		42
7	68	55	46	40	66	54	46	40	52	45	40		51	44	40		37
8	63	50	42	36	61	49	41	36	48	41	36		47	40	35		33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		30
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13808
5°	13830
10°	13834
15°	13649
20°	13616
25°	13599
30°	13558
35°	13560
40°	13606
45°	13611
50°	13589
55°	13427
60°	12622
65°	6461
70°	2601
75°	1226
80°	235
85°	354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	3.7
10°-20°	833.6	10.5
20°-30°	1268.2	16.0
30°-40°	1554.1	19.7
40°-50°	1658.3	21.0
50°-60°	1529.1	19.3
60°-70°	673.2	8.5
70°-80°	90.1	1.1
80°-90°	6.8	0.1
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°	2394.4	30.3
0°-40°	3948.4	49.9
0°-60°	7135.8	90.3
0°-90°	7906.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7906.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3086	
5°	3079	292
15°	2946	834
25°	2754	1268
35°	2482	1554
45°	2151	1658
55°	1721	1529
65°	610	673
75°	71	90
85°	7	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3085.5
2.5°	3080.9
5°	3078.6
7.5°	3058.1
10°	3044.4
12.5°	2998.6
15°	2946.1
17.5°	2904.9
20°	2859.2
22.5°	2806.7
25°	2754.1
27.5°	2685.5
30°	2623.8
32.5°	2553.0
35°	2482.1
37.5°	2406.7
40°	2329.0
42.5°	2239.8
45°	2150.7
47.5°	2054.7
50°	1951.9
52.5°	1837.6
55°	1721.0
57.5°	1597.6
60°	1410.2
62.5°	1049.1
65°	610.2
67.5°	283.4
70°	198.8
72.5°	148.6
75°	70.9
77.5°	20.6
80°	9.1
82.5°	9.1
85°	6.9
87.5°	4.6
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	21.96	23.51	22.32	23.82	24.14	21.96	23.51	22.32	23.82	24.14
	3H	22.01	23.38	22.38	23.71	24.07	22.01	23.38	22.38	23.71	24.07
	4H	21.97	23.26	22.37	23.61	23.98	21.97	23.26	22.37	23.61	23.98
	6H	21.91	23.09	22.32	23.46	23.85	21.91	23.09	22.32	23.46	23.85
	8H	21.88	23.00	22.30	23.39	23.79	21.88	23.00	22.30	23.39	23.79
	12H	21.85	22.92	22.28	23.30	23.73	21.85	22.92	22.28	23.30	23.73
4H	2H	22.05	23.34	22.45	23.69	24.07	22.05	23.34	22.45	23.69	24.07
	3H	22.14	23.19	22.55	23.59	23.99	22.14	23.19	22.55	23.59	23.99
	4H	22.11	23.04	22.54	23.46	23.90	22.11	23.04	22.54	23.46	23.90
	6H	22.05	22.86	22.51	23.30	23.76	22.05	22.86	22.51	23.30	23.76
	8H	22.01	22.76	22.47	23.20	23.67	22.01	22.76	22.47	23.20	23.67
	12H	21.97	22.64	22.46	23.12	23.59	21.97	22.64	22.46	23.12	23.59
8H	4H	22.02	22.77	22.49	23.22	23.68	22.02	22.77	22.49	23.22	23.68
	6H	21.94	22.56	22.44	23.05	23.53	21.94	22.56	22.44	23.05	23.53
	8H	21.89	22.44	22.40	22.95	23.44	21.89	22.44	22.40	22.95	23.44
	12H	21.85	22.35	22.36	22.84	23.40	21.85	22.35	22.36	22.84	23.40
12H	4H	21.99	22.66	22.47	23.14	23.61	21.99	22.66	22.47	23.14	23.61
	6H	21.89	22.44	22.40	22.95	23.44	21.89	22.44	22.40	22.95	23.44
	8H	21.85	22.35	22.36	22.84	23.40	21.85	22.35	22.36	22.84	23.40