

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: P980211

Luminaire Tested: PRLX-242-940-74L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980211
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-242-940-74L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

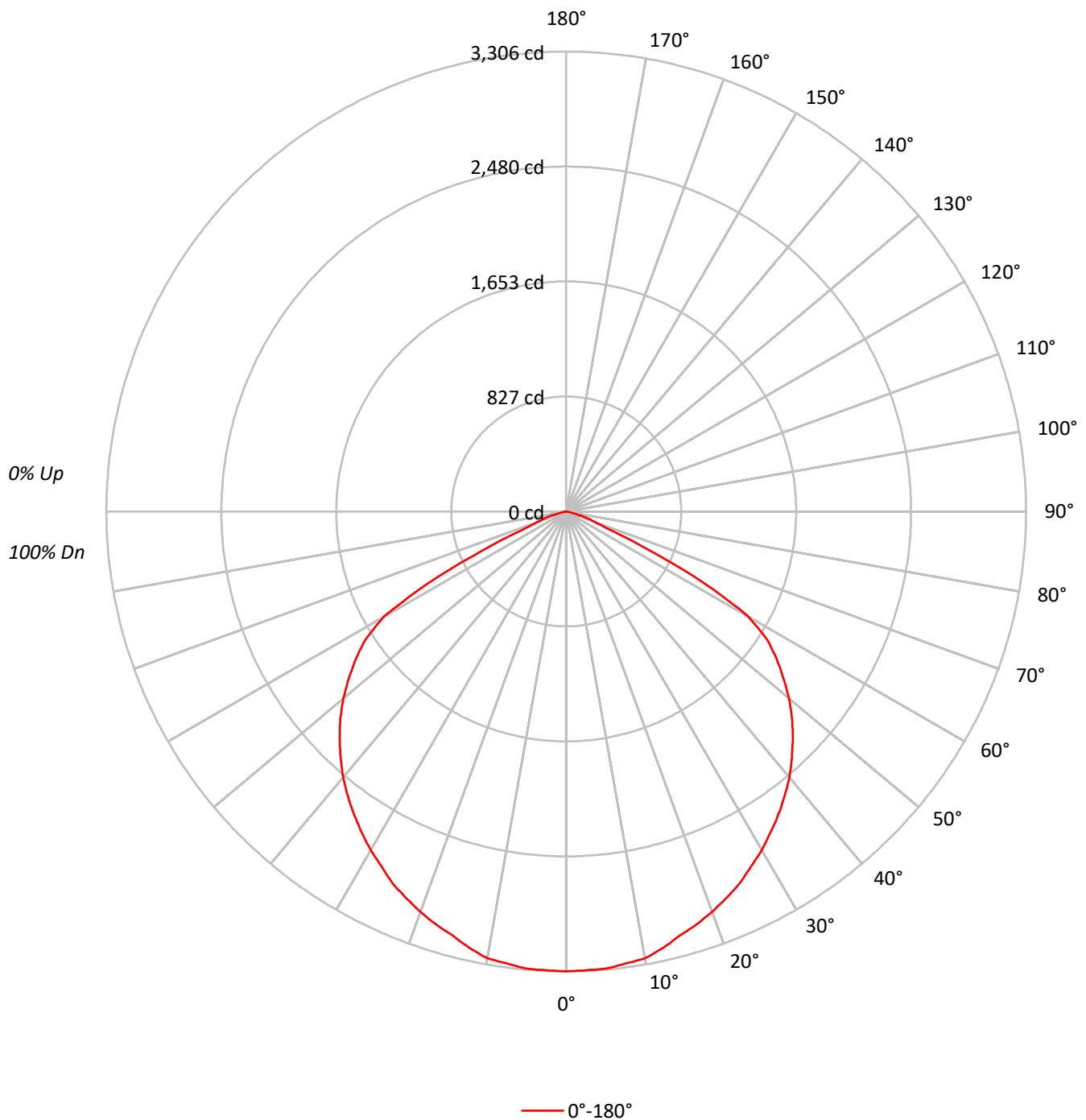
Lumens per Lamp: N/A
Luminaire Lumens: 8471.6 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P980211

CATALOG NUMBER: PRLX-242-940-74L-C-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P980211

CATALOG NUMBER: PRLX-242-940-74L-C-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	90
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	67	62	58
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14796
5°	14819
10°	14823
15°	14625
20°	14591
25°	14572
30°	14528
35°	14530
40°	14579
45°	14585
50°	14561
55°	14388
60°	13525
65°	6924
70°	2788
75°	1312
80°	253
85°	375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 14585 cd/sqm

TEST NUMBER: P980211

CATALOG NUMBER: PRLX-242-940-74L-C-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	3.7
10°-20°	893.3	10.5
20°-30°	1359.0	16.0
30°-40°	1665.2	19.7
40°-50°	1777.0	21.0
50°-60°	1638.5	19.3
60°-70°	721.4	8.5
70°-80°	96.6	1.1
80°-90°	7.3	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°	2565.6	30.3
0°-40°	4230.8	49.9
0°-60°	7646.3	90.3
0°-90°	8471.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8471.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3306	
5°	3299	313
15°	3157	893
25°	2951	1359
35°	2660	1665
45°	2305	1777
55°	1844	1638
65°	654	721
75°	76	97
85°	7	7
90°	0	

TEST NUMBER: P980211

CATALOG NUMBER: PRLX-242-940-74L-C-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	3306.2
2.5°	3301.3
5°	3298.9
7.5°	3276.8
10°	3262.1
12.5°	3213.2
15°	3156.8
17.5°	3112.7
20°	3063.8
22.5°	3007.4
25°	2951.1
27.5°	2877.6
30°	2811.5
32.5°	2735.6
35°	2659.7
37.5°	2578.8
40°	2495.6
42.5°	2400.1
45°	2304.6
47.5°	2201.7
50°	2091.5
52.5°	1969.0
55°	1844.1
57.5°	1711.9
60°	1511.1
62.5°	1124.1
65°	653.9
67.5°	303.7
70°	213.1
72.5°	159.2
75°	75.9
77.5°	22.0
80°	9.8
82.5°	9.8
85°	7.3
87.5°	4.9
90°	0.0

TEST NUMBER: P980211

CATALOG NUMBER: PRLX-242-940-74L-C-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	22.20	23.75	22.56	24.06	24.38	22.20	23.75	22.56	24.06	24.38
	3H	22.25	23.62	22.62	23.95	24.31	22.25	23.62	22.62	23.95	24.31
	4H	22.21	23.50	22.61	23.85	24.22	22.21	23.50	22.61	23.85	24.22
	6H	22.15	23.33	22.56	23.70	24.09	22.15	23.33	22.56	23.70	24.09
	8H	22.12	23.24	22.54	23.63	24.03	22.12	23.24	22.54	23.63	24.03
	12H	22.09	23.16	22.52	23.54	23.97	22.09	23.16	22.52	23.54	23.97
4H	2H	22.29	23.58	22.69	23.93	24.31	22.29	23.58	22.69	23.93	24.31
	3H	22.38	23.43	22.80	23.83	24.23	22.38	23.43	22.80	23.83	24.23
	4H	22.35	23.28	22.78	23.70	24.14	22.35	23.28	22.78	23.70	24.14
	6H	22.29	23.10	22.75	23.54	24.00	22.29	23.10	22.75	23.54	24.00
	8H	22.25	23.00	22.71	23.44	23.91	22.25	23.00	22.71	23.44	23.91
	12H	22.21	22.88	22.70	23.36	23.83	22.21	22.88	22.70	23.36	23.83
8H	4H	22.26	23.01	22.73	23.46	23.93	22.26	23.01	22.73	23.46	23.93
	6H	22.18	22.80	22.68	23.29	23.77	22.18	22.80	22.68	23.29	23.77
	8H	22.13	22.68	22.64	23.19	23.68	22.13	22.68	22.64	23.19	23.68
	12H	22.09	22.59	22.60	23.08	23.64	22.09	22.59	22.60	23.08	23.64
12H	4H	22.23	22.90	22.71	23.38	23.85	22.23	22.90	22.71	23.38	23.85
	6H	22.13	22.68	22.64	23.19	23.68	22.13	22.68	22.64	23.19	23.68
	8H	22.09	22.59	22.60	23.08	23.64	22.09	22.59	22.60	23.08	23.64

END OF REPORT