

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: P979843

Luminaire Tested: PRLX-241-940-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-23L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

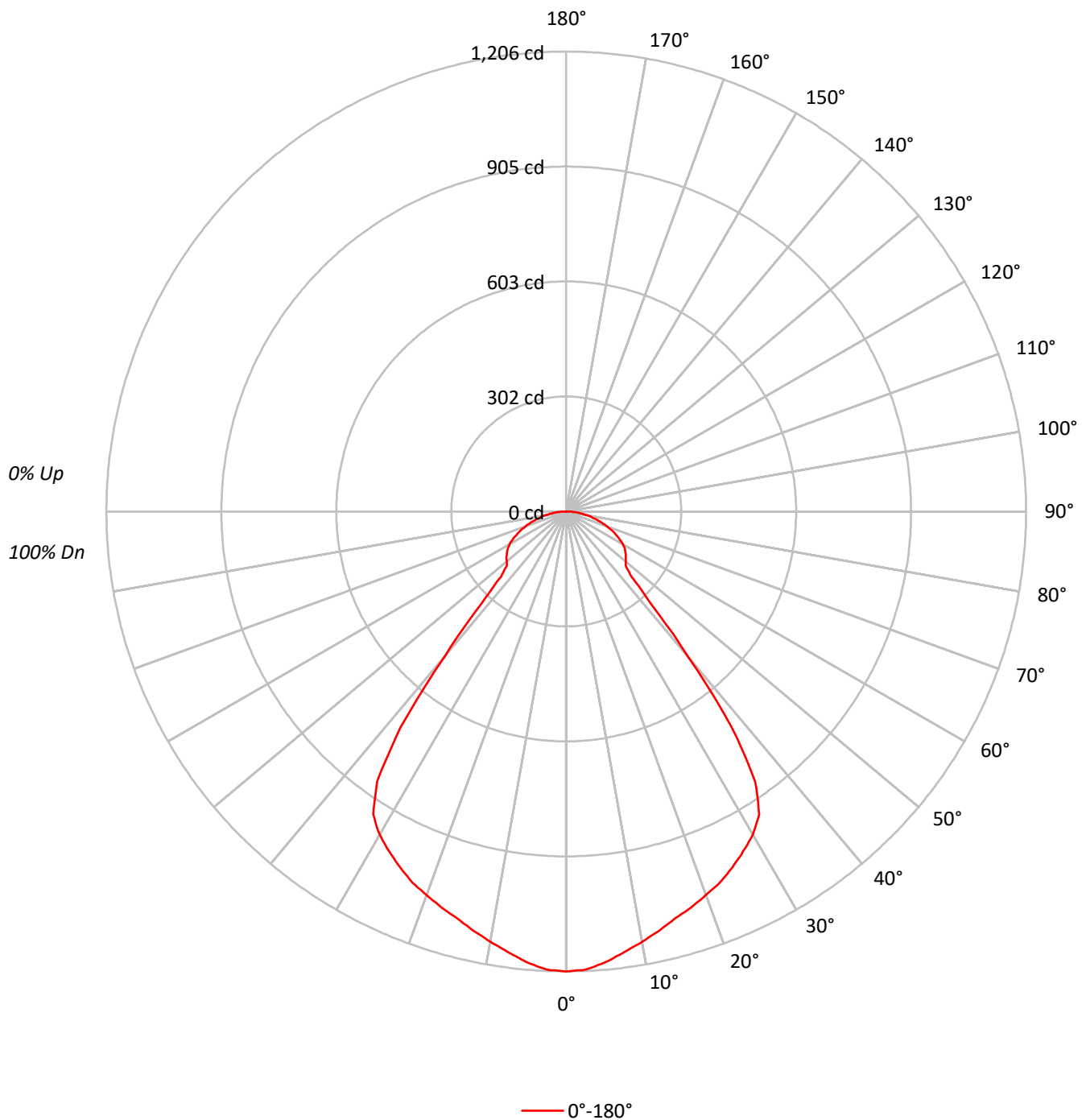
Lumens per Lamp: N/A
Luminaire Lumens: 2046.1 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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: P979843

CATALOG NUMBER: PRLX-241-940-23L-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	103	96	90	85	100	94	89	84	90	86	82		87	84	81		84
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65
6	77	66	58	52	76	65	58	52	63	57	52		62	56	51		60
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		56
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	39		49
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9300
5°	9181
10°	8969
15°	8818
20°	8781
25°	8765
30°	8714
35°	8128
40°	5003
45°	2631
50°	2442
55°	2551
60°	2643
65°	2621
70°	2547
75°	2425
80°	2286
85°	2105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 60°
Luminance: 2643 cd/sqm

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CATALOG NUMBER: PRLX-241-940-23L-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	5.5
10°-20°	312.7	15.3
20°-30°	474.7	23.2
30°-40°	505.8	24.7
40°-50°	216.1	10.6
50°-60°	169.5	8.3
60°-70°	141.7	6.9
70°-80°	86.3	4.2
80°-90°	27.3	1.3
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°	899.3	44.0
0°-40°	1405.2	68.7
0°-60°	1790.8	87.5
0°-90°	2046.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1206	
5°	1186	112
15°	1105	313
25°	1030	475
35°	864	506
45°	241	216
55°	190	169
65°	144	142
75°	81	86
85°	24	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1206.4
2.5°	1202.5
5°	1186.4
7.5°	1165.6
10°	1145.7
12.5°	1125.7
15°	1104.9
17.5°	1088.8
20°	1070.4
22.5°	1053.5
25°	1030.4
27.5°	1005.1
30°	978.9
32.5°	942.0
35°	863.7
37.5°	713.8
40°	497.1
42.5°	328.1
45°	241.3
47.5°	211.3
50°	203.6
52.5°	197.5
55°	189.8
57.5°	182.1
60°	171.4
62.5°	158.3
65°	143.7
67.5°	128.3
70°	113.0
72.5°	96.8
75°	81.4
77.5°	66.8
80°	51.5
82.5°	37.7
85°	23.8
87.5°	13.1
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	13.75	15.09	14.12	15.41	15.72	13.75	15.09	14.12	15.41	15.72
	3H	15.76	16.96	16.14	17.29	17.65	15.76	16.96	16.14	17.29	17.65
	4H	16.51	17.64	16.91	17.99	18.37	16.51	17.64	16.91	17.99	18.37
	6H	17.10	18.14	17.51	18.51	18.90	17.10	18.14	17.51	18.51	18.90
	8H	17.30	18.29	17.73	18.68	19.08	17.30	18.29	17.73	18.68	19.08
	12H	17.44	18.38	17.87	18.76	19.19	17.44	18.38	17.87	18.76	19.19
4H	2H	14.42	15.55	14.82	15.90	16.28	14.42	15.55	14.82	15.90	16.28
	3H	16.62	17.56	17.03	17.96	18.37	16.62	17.56	17.03	17.96	18.37
	4H	17.50	18.35	17.94	18.77	19.21	17.50	18.35	17.94	18.77	19.21
	6H	18.22	18.95	18.68	19.40	19.86	18.22	18.95	18.68	19.40	19.86
	8H	18.47	19.16	18.94	19.60	20.07	18.47	19.16	18.94	19.60	20.07
	12H	18.66	19.27	19.14	19.75	20.22	18.66	19.27	19.14	19.75	20.22
8H	4H	17.82	18.51	18.29	18.96	19.43	17.82	18.51	18.29	18.96	19.43
	6H	18.68	19.24	19.18	19.74	20.22	18.68	19.24	19.18	19.74	20.22
	8H	19.02	19.52	19.54	20.04	20.53	19.02	19.52	19.54	20.04	20.53
	12H	19.30	19.74	19.81	20.23	20.80	19.30	19.74	19.81	20.23	20.80
12H	4H	17.85	18.46	18.34	18.94	19.42	17.85	18.46	18.34	18.94	19.42
	6H	18.75	19.25	19.27	19.76	20.25	18.75	19.25	19.27	19.76	20.25
	8H	19.15	19.59	19.66	20.08	20.65	19.15	19.59	19.66	20.08	20.65