

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: P979821

Luminaire Tested: PRLX-241-940-12L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-12L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

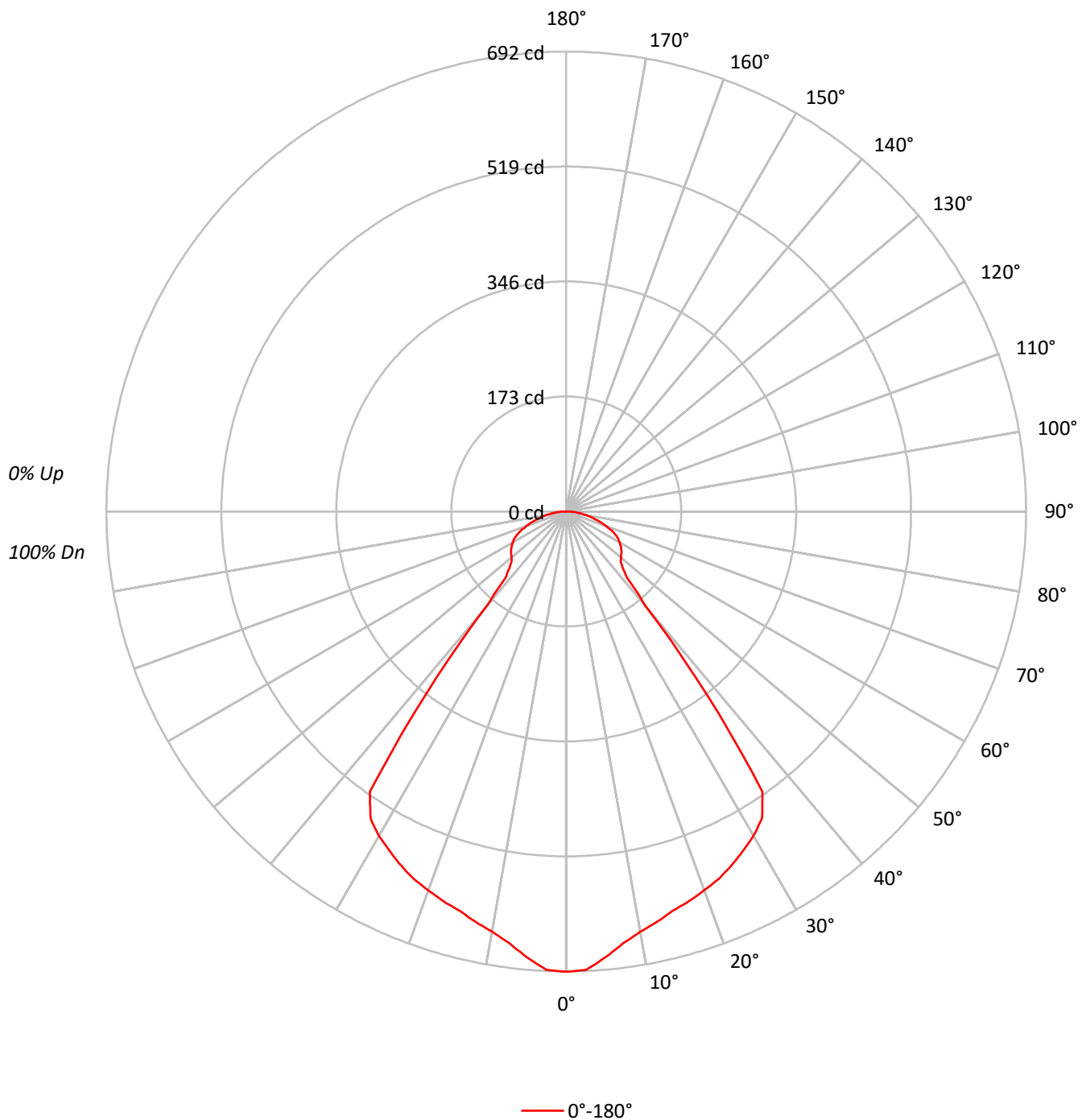
Lumens per Lamp: N/A
Luminaire Lumens: 1117.4 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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	105	101	98	100	98	95		97	94	92		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		68
4	89	79	71	66	87	78	71	65	75	69	65		73	68	64		61
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		55
6	78	66	59	53	76	65	58	53	64	57	52		62	56	52		50
7	73	61	54	48	71	60	53	48	59	53	48		58	52	48		45
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		42
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		38
10	61	49	42	38	60	49	42	37	48	42	37		47	41	37		36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5339
5°	5213
10°	5026
15°	4961
20°	4978
25°	5002
30°	5017
35°	4844
40°	1871
45°	1315
50°	1287
55°	1362
60°	1432
65°	1476
70°	1427
75°	1349
80°	1261
85°	1168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 65°
Luminance: 1476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	5.7
10°-20°	176.2	15.8
20°-30°	271.1	24.3
30°-40°	275.8	24.7
40°-50°	98.8	8.8
50°-60°	90.3	8.1
60°-70°	78.9	7.1
70°-80°	48.0	4.3
80°-90°	15.1	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°	510.5	45.7
0°-40°	786.3	70.4
0°-60°	975.4	87.3
0°-90°	1117.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	692	
5°	674	63
15°	622	176
25°	588	271
35°	515	276
45°	121	99
55°	101	90
65°	81	79
75°	45	48
85°	13	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	692.5
2.5°	690.1
5°	673.7
7.5°	655.3
10°	642.1
12.5°	632.1
15°	621.6
17.5°	614.8
20°	606.8
22.5°	598.8
25°	588.0
27.5°	576.0
30°	563.6
32.5°	547.9
35°	514.7
37.5°	348.5
40°	185.9
42.5°	135.4
45°	120.6
47.5°	111.4
50°	107.3
52.5°	104.5
55°	101.3
57.5°	97.3
60°	92.9
62.5°	87.7
65°	80.9
67.5°	72.1
70°	63.3
72.5°	54.1
75°	45.3
77.5°	36.9
80°	28.4
82.5°	20.8
85°	13.2
87.5°	7.2
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	11.53	12.85	11.89	13.16	13.48	11.53	12.85	11.89	13.16	13.48
	3H	13.69	14.87	14.07	15.20	15.57	13.69	14.87	14.07	15.20	15.57
	4H	14.47	15.58	14.87	15.93	16.32	14.47	15.58	14.87	15.93	16.32
	6H	15.06	16.09	15.47	16.46	16.85	15.06	16.09	15.47	16.46	16.85
	8H	15.26	16.24	15.69	16.63	17.03	15.26	16.24	15.69	16.63	17.03
	12H	15.40	16.33	15.83	16.72	17.15	15.40	16.33	15.83	16.72	17.15
4H	2H	12.28	13.39	12.68	13.74	14.12	12.28	13.39	12.68	13.74	14.12
	3H	14.60	15.52	15.01	15.93	16.33	14.60	15.52	15.01	15.93	16.33
	4H	15.49	16.33	15.93	16.75	17.19	15.49	16.33	15.93	16.75	17.19
	6H	16.21	16.93	16.67	17.38	17.84	16.21	16.93	16.67	17.38	17.84
	8H	16.46	17.13	16.93	17.58	18.05	16.46	17.13	16.93	17.58	18.05
	12H	16.64	17.24	17.13	17.73	18.20	16.64	17.24	17.13	17.73	18.20
8H	4H	15.82	16.49	16.28	16.94	17.41	15.82	16.49	16.28	16.94	17.41
	6H	16.67	17.22	17.17	17.72	18.20	16.67	17.22	17.17	17.72	18.20
	8H	17.01	17.50	17.53	18.02	18.51	17.01	17.50	17.53	18.02	18.51
	12H	17.29	17.72	17.80	18.22	18.79	17.29	17.72	17.80	18.22	18.79
12H	4H	15.84	16.44	16.33	16.93	17.40	15.84	16.44	16.33	16.93	17.40
	6H	16.73	17.23	17.25	17.74	18.23	16.73	17.23	17.25	17.74	18.23
	8H	17.14	17.57	17.65	18.06	18.63	17.14	17.57	17.65	18.06	18.63

END OF REPORT