

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979883

Luminaire Tested: PRLX-241-940-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979883
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-LL7-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

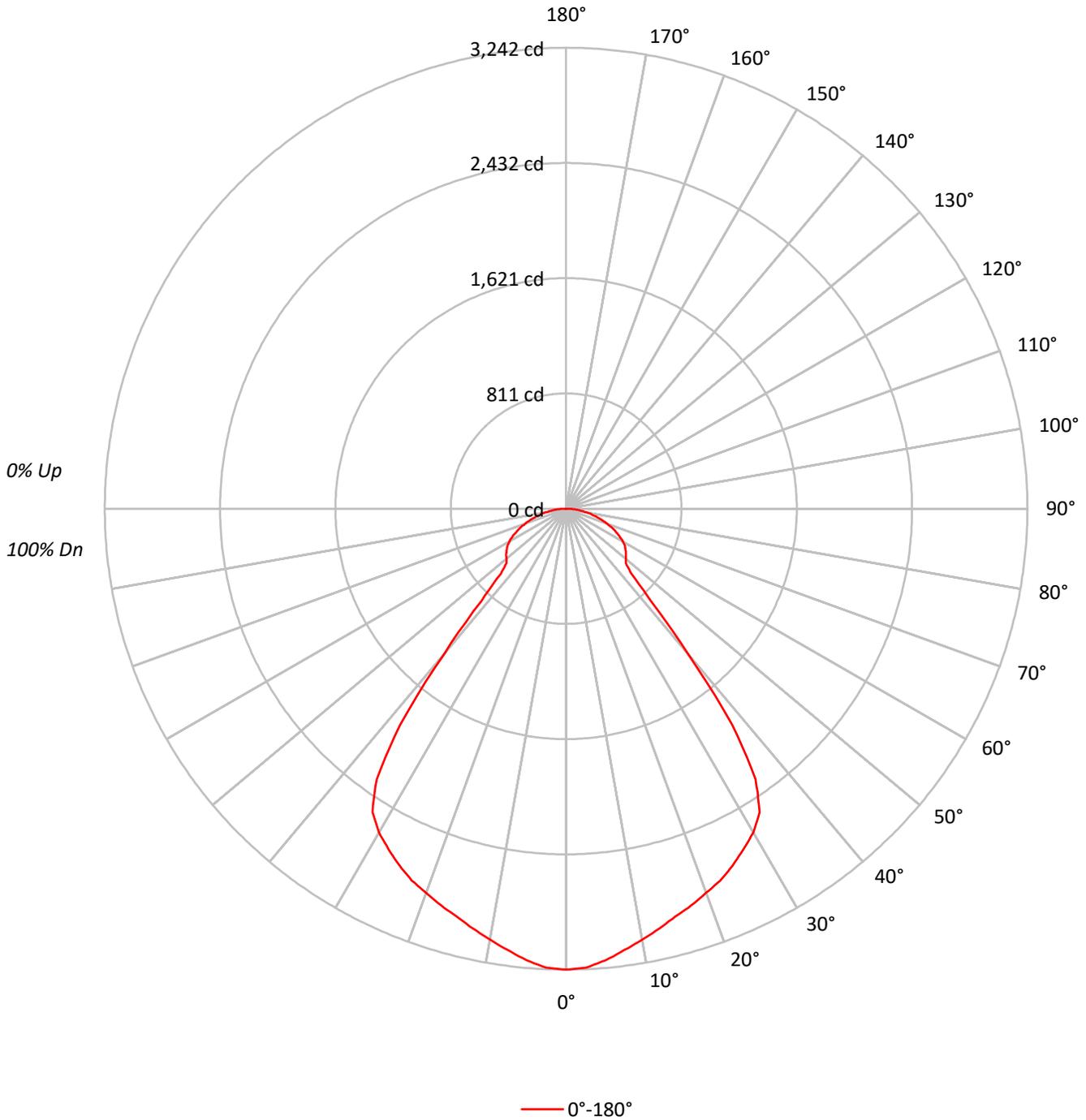
Lumens per Lamp: N/A
Luminaire Lumens: 5497.9 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100					100															
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88					88															
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77					77															
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68															
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61					61															
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54					54															
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49					49															
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45					45															
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41					41															
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38					38															
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	35					35															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24990
5°	24670
10°	24099
15°	23696
20°	23595
25°	23552
30°	23415
35°	21840
40°	13444
45°	7068
50°	6561
55°	6855
60°	7099
65°	7043
70°	6841
75°	6520
80°	6140
85°	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 7101 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	5.5
10°-20°	840.2	15.3
20°-30°	1275.6	23.2
30°-40°	1359.2	24.7
40°-50°	580.7	10.6
50°-60°	455.4	8.3
60°-70°	380.7	6.9
70°-80°	232.0	4.2
80°-90°	73.3	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°	2416.5	44.0
0°-40°	3775.8	68.7
0°-60°	4811.9	87.5
0°-90°	5497.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5497.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3242	
5°	3188	301
15°	2969	840
25°	2769	1276
35°	2321	1359
45°	648	581
55°	510	455
65°	386	381
75°	219	232
85°	64	73
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3241.6
2.5°	3231.2
5°	3187.9
7.5°	3132.1
10°	3078.5
12.5°	3024.8
15°	2969.0
17.5°	2925.7
20°	2876.1
22.5°	2830.7
25°	2768.8
27.5°	2700.6
30°	2630.4
32.5°	2531.3
35°	2320.7
37.5°	1918.1
40°	1335.9
42.5°	881.6
45°	648.3
47.5°	567.8
50°	547.1
52.5°	530.6
55°	510.0
57.5°	489.3
60°	460.4
62.5°	425.3
65°	386.1
67.5°	344.8
70°	303.5
72.5°	260.2
75°	218.9
77.5°	179.6
80°	138.3
82.5°	101.2
85°	64.0
87.5°	35.1
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	17.19	18.53	17.55	18.84	19.15	17.19	18.53	17.55	18.84	19.15
	3H	19.19	20.39	19.57	20.72	21.09	19.19	20.39	19.57	20.72	21.09
	4H	19.95	21.07	20.35	21.42	21.81	19.95	21.07	20.35	21.42	21.81
	6H	20.53	21.57	20.95	21.94	22.34	20.53	21.57	20.95	21.94	22.34
	8H	20.73	21.72	21.16	22.11	22.51	20.73	21.72	21.16	22.11	22.51
	12H	20.87	21.82	21.30	22.20	22.63	20.87	21.82	21.30	22.20	22.63
4H	2H	17.86	18.98	18.26	19.33	19.71	17.86	18.98	18.26	19.33	19.71
	3H	20.06	20.99	20.47	21.40	21.80	20.06	20.99	20.47	21.40	21.80
	4H	20.94	21.78	21.37	22.20	22.64	20.94	21.78	21.37	22.20	22.64
	6H	21.66	22.39	22.12	22.83	23.30	21.66	22.39	22.12	22.83	23.30
	8H	21.91	22.59	22.37	23.04	23.51	21.91	22.59	22.37	23.04	23.51
	12H	22.09	22.70	22.58	23.18	23.65	22.09	22.70	22.58	23.18	23.65
8H	4H	21.26	21.94	21.73	22.39	22.86	21.26	21.94	21.73	22.39	22.86
	6H	22.12	22.68	22.62	23.17	23.65	22.12	22.68	22.62	23.17	23.65
	8H	22.46	22.96	22.98	23.47	23.96	22.46	22.96	22.98	23.47	23.96
	12H	22.74	23.17	23.25	23.67	24.24	22.74	23.17	23.25	23.67	24.24
12H	4H	21.29	21.90	21.77	22.38	22.85	21.29	21.90	21.77	22.38	22.85
	6H	22.18	22.68	22.70	23.20	23.69	22.18	22.68	22.70	23.20	23.69
	8H	22.58	23.02	23.10	23.52	24.09	22.58	23.02	23.10	23.52	24.09