

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: P979801

Luminaire Tested: PRLX-241-935-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979801
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-241-935-LL7-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

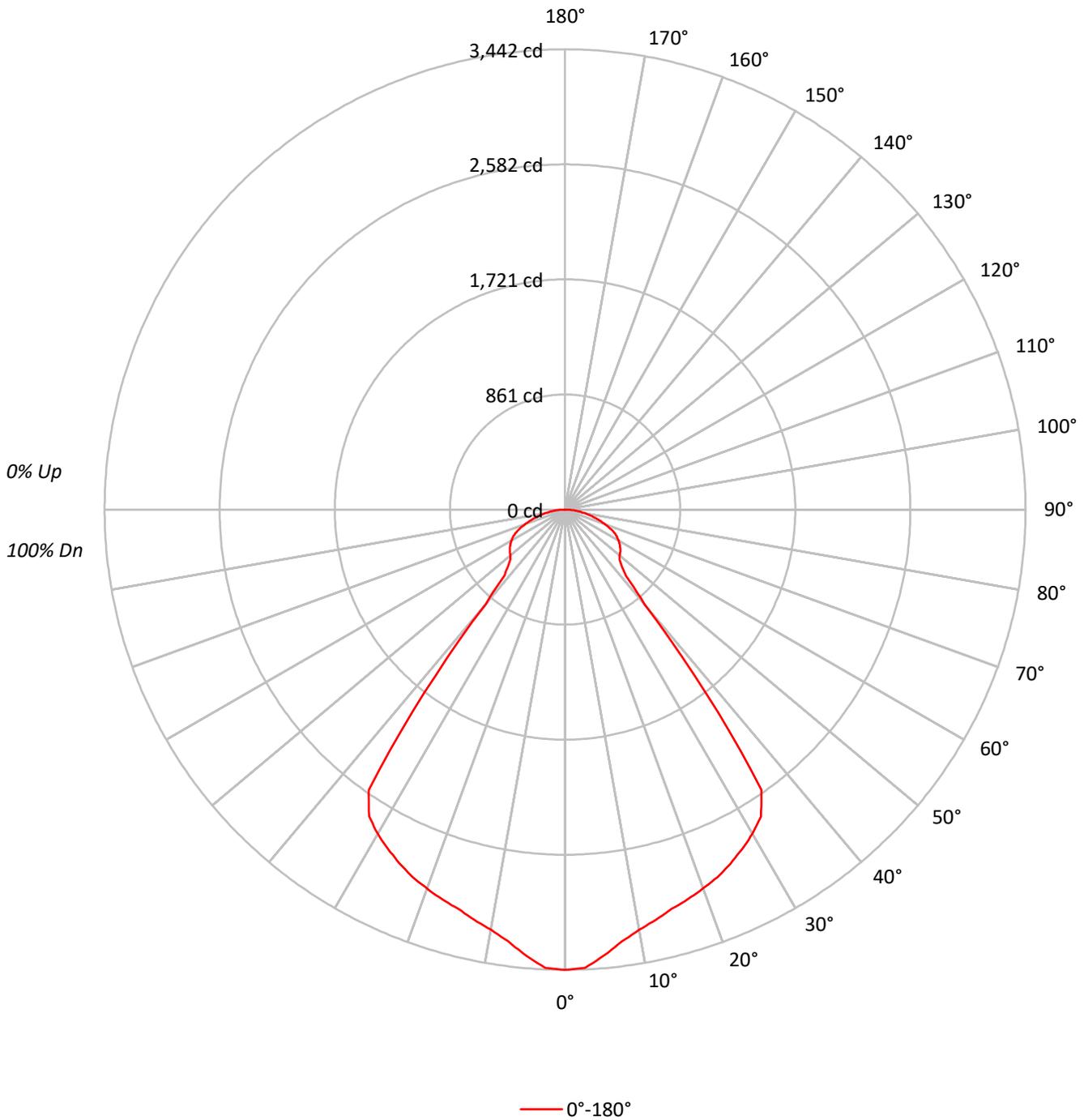
Lumens per Lamp: N/A
Luminaire Lumens: 5553.6 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77	73	70	68
4	89	79	71	66	87	78	71	65	75	69	65		73	68	64		71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		65	61	57	55
6	78	66	59	53	76	65	58	53	64	57	52		62	56	52		61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48		58	52	48		56	51	47	45
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		49	44	40	38
10	61	49	42	38	60	49	42	37	48	42	37		47	41	37		46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26534
5°	25912
10°	24980
15°	24658
20°	24742
25°	24858
30°	24933
35°	24074
40°	9296
45°	6533
50°	6398
55°	6769
60°	7120
65°	7335
70°	7089
75°	6699
80°	6273
85°	5811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 65°
 Luminance: 7335 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	5.7
10°-20°	875.5	15.8
20°-30°	1347.4	24.3
30°-40°	1370.5	24.7
40°-50°	491.0	8.8
50°-60°	449.0	8.1
60°-70°	392.3	7.1
70°-80°	238.6	4.3
80°-90°	75.0	1.4
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°	2537.2	45.7
0°-40°	3907.8	70.4
0°-60°	4847.7	87.3
0°-90°	5553.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3442	
5°	3348	314
15°	3090	876
25°	2922	1347
35°	2558	1371
45°	599	491
55°	504	449
65°	402	392
75°	225	239
85°	66	75
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3441.9
2.5°	3430.0
5°	3348.4
7.5°	3256.8
10°	3191.1
12.5°	3141.3
15°	3089.6
17.5°	3055.7
20°	3015.9
22.5°	2976.1
25°	2922.4
27.5°	2862.6
30°	2800.9
32.5°	2723.3
35°	2558.1
37.5°	1731.9
40°	923.7
42.5°	672.9
45°	599.2
47.5°	553.4
50°	533.5
52.5°	519.6
55°	503.6
57.5°	483.7
60°	461.8
62.5°	436.0
65°	402.1
67.5°	358.3
70°	314.5
72.5°	268.7
75°	224.9
77.5°	183.1
80°	141.3
82.5°	103.5
85°	65.7
87.5°	35.8
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	17.10	18.42	17.47	18.74	19.05	17.10	18.42	17.47	18.74	19.05
	3H	19.26	20.45	19.64	20.78	21.14	19.26	20.45	19.64	20.78	21.14
	4H	20.04	21.15	20.44	21.50	21.89	20.04	21.15	20.44	21.50	21.89
	6H	20.63	21.65	21.04	22.02	22.42	20.63	21.65	21.04	22.02	22.42
	8H	20.83	21.81	21.26	22.20	22.60	20.83	21.81	21.26	22.20	22.60
	12H	20.97	21.90	21.40	22.29	22.72	20.97	21.90	21.40	22.29	22.72
4H	2H	17.85	18.96	18.25	19.31	19.69	17.85	18.96	18.25	19.31	19.69
	3H	20.17	21.09	20.58	21.50	21.90	20.17	21.09	20.58	21.50	21.90
	4H	21.06	21.90	21.50	22.32	22.76	21.06	21.90	21.50	22.32	22.76
	6H	21.78	22.50	22.24	22.95	23.41	21.78	22.50	22.24	22.95	23.41
	8H	22.03	22.70	22.49	23.15	23.62	22.03	22.70	22.49	23.15	23.62
	12H	22.21	22.81	22.70	23.30	23.77	22.21	22.81	22.70	23.30	23.77
8H	4H	21.38	22.06	21.85	22.51	22.98	21.38	22.06	21.85	22.51	22.98
	6H	22.24	22.79	22.74	23.29	23.77	22.24	22.79	22.74	23.29	23.77
	8H	22.58	23.07	23.10	23.59	24.08	22.58	23.07	23.10	23.59	24.08
	12H	22.86	23.29	23.37	23.79	24.36	22.86	23.29	23.37	23.79	24.36
12H	4H	21.41	22.01	21.90	22.49	22.97	21.41	22.01	21.90	22.49	22.97
	6H	22.30	22.80	22.82	23.31	23.80	22.30	22.80	22.82	23.31	23.80
	8H	22.71	23.14	23.22	23.63	24.20	22.71	23.14	23.22	23.63	24.20