

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: P979721

Luminaire Tested: PRLX-241-930-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979721
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-241-930-LL7-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

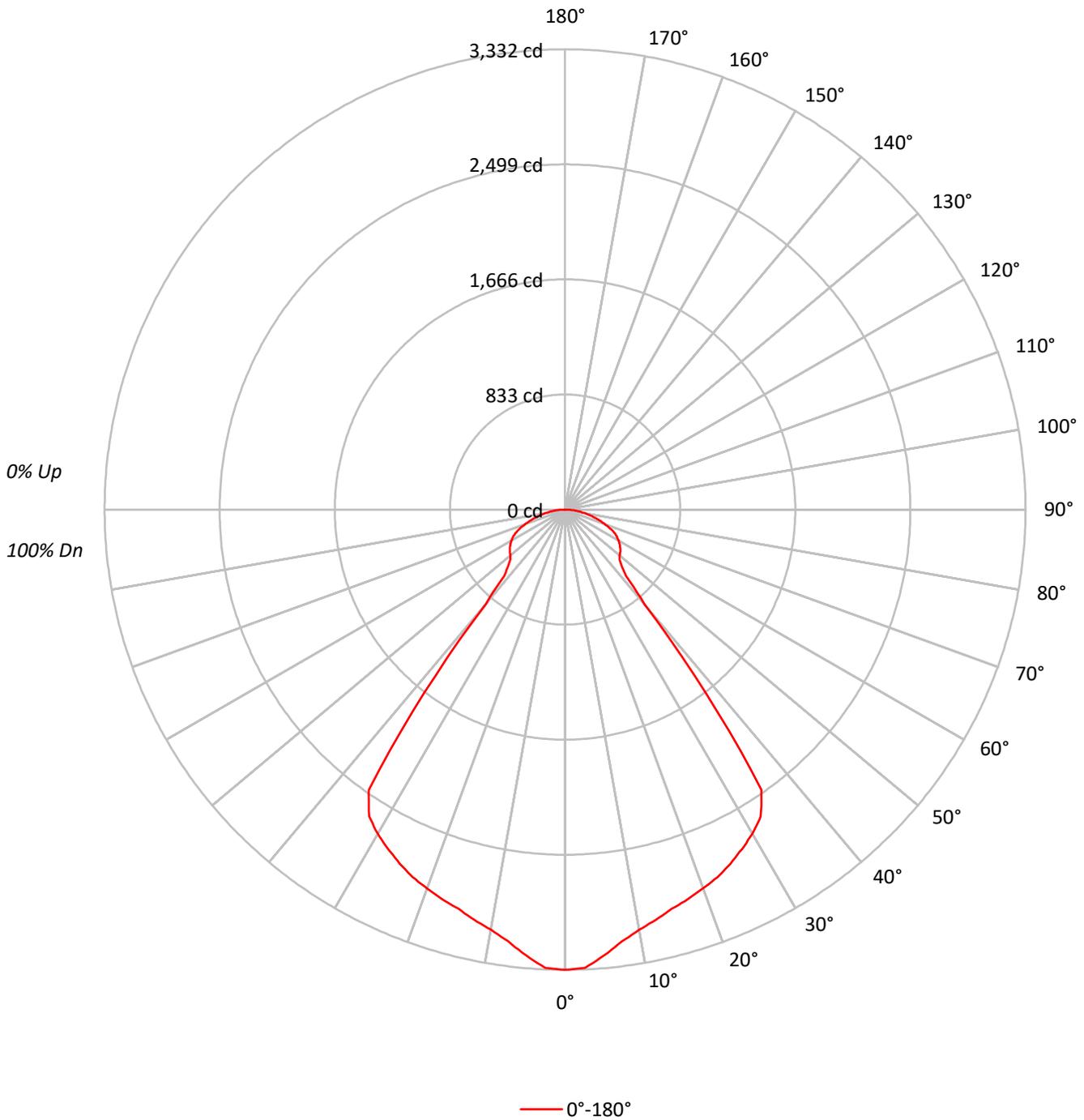
Lumens per Lamp: N/A
Luminaire Lumens: 5375.5 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	25683
5°	25081
10°	24179
15°	23867
20°	23949
25°	24060
30°	24133
35°	23302
40°	8998
45°	6323
50°	6193
55°	6552
60°	6892
65°	7099
70°	6861
75°	6484
80°	6073
85°	5626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 65°
 Luminance: 7099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.2	5.7
10°-20°	847.5	15.8
20°-30°	1304.2	24.3
30°-40°	1326.6	24.7
40°-50°	475.3	8.8
50°-60°	434.6	8.1
60°-70°	379.7	7.1
70°-80°	231.0	4.3
80°-90°	72.6	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°	2455.9	45.7
0°-40°	3782.4	70.4
0°-60°	4692.3	87.3
0°-90°	5375.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5375.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3332	
5°	3241	304
15°	2990	847
25°	2829	1304
35°	2476	1327
45°	580	475
55°	488	435
65°	389	380
75°	218	231
85°	64	73
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3331.5
2.5°	3320.0
5°	3241.0
7.5°	3152.3
10°	3088.8
12.5°	3040.6
15°	2990.5
17.5°	2957.7
20°	2919.2
22.5°	2880.7
25°	2828.6
27.5°	2770.8
30°	2711.1
32.5°	2635.9
35°	2476.0
37.5°	1676.4
40°	894.1
42.5°	651.3
45°	580.0
47.5°	535.7
50°	516.4
52.5°	502.9
55°	487.5
57.5°	468.2
60°	447.0
62.5°	422.0
65°	389.2
67.5°	346.8
70°	304.4
72.5°	260.1
75°	217.7
77.5°	177.3
80°	136.8
82.5°	100.2
85°	63.6
87.5°	34.7
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	16.99	18.31	17.35	18.62	18.94	16.99	18.31	17.35	18.62	18.94
	3H	19.15	20.33	19.53	20.66	21.03	19.15	20.33	19.53	20.66	21.03
	4H	19.93	21.04	20.33	21.39	21.77	19.93	21.04	20.33	21.39	21.77
	6H	20.52	21.54	20.93	21.91	22.31	20.52	21.54	20.93	21.91	22.31
	8H	20.72	21.69	21.15	22.08	22.49	20.72	21.69	21.15	22.08	22.49
	12H	20.86	21.79	21.29	22.17	22.60	20.86	21.79	21.29	22.17	22.60
4H	2H	17.74	18.85	18.14	19.20	19.58	17.74	18.85	18.14	19.20	19.58
	3H	20.05	20.98	20.46	21.38	21.79	20.05	20.98	20.46	21.38	21.79
	4H	20.95	21.79	21.38	22.20	22.65	20.95	21.79	21.38	22.20	22.65
	6H	21.66	22.39	22.13	22.83	23.30	21.66	22.39	22.13	22.83	23.30
	8H	21.91	22.59	22.38	23.04	23.51	21.91	22.59	22.38	23.04	23.51
	12H	22.10	22.70	22.59	23.18	23.66	22.10	22.70	22.59	23.18	23.66
8H	4H	21.27	21.95	21.74	22.40	22.87	21.27	21.95	21.74	22.40	22.87
	6H	22.13	22.68	22.63	23.18	23.66	22.13	22.68	22.63	23.18	23.66
	8H	22.47	22.96	22.99	23.47	23.97	22.47	22.96	22.99	23.47	23.97
	12H	22.75	23.18	23.26	23.67	24.24	22.75	23.18	23.26	23.67	24.24
12H	4H	21.30	21.90	21.79	22.38	22.86	21.30	21.90	21.79	22.38	22.86
	6H	22.19	22.69	22.71	23.20	23.69	22.19	22.69	22.71	23.20	23.69
	8H	22.60	23.03	23.11	23.52	24.09	22.60	23.03	23.11	23.52	24.09