

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: P979723

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979723
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-241-930-LL7-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

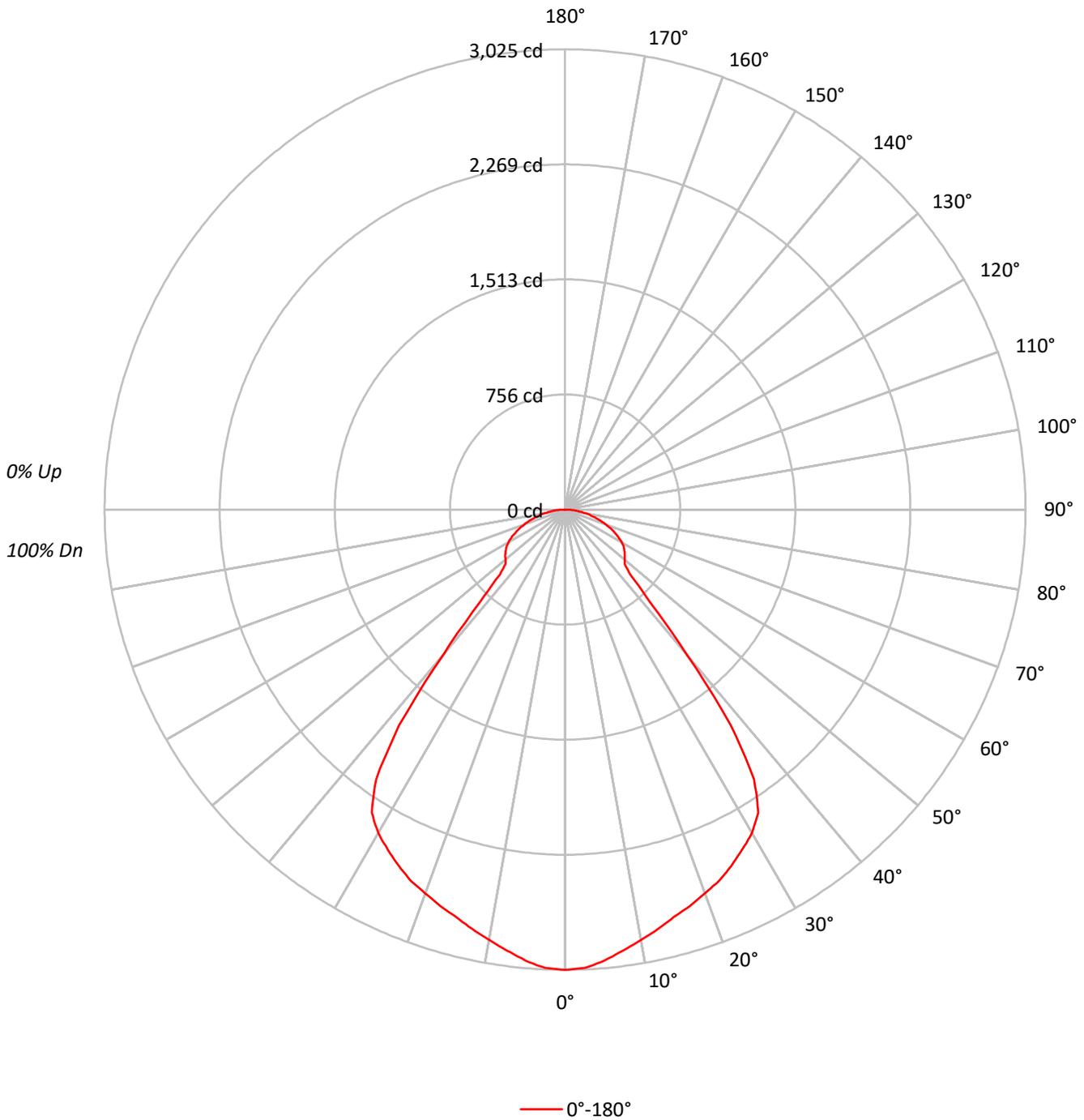
Lumens per Lamp: N/A
Luminaire Lumens: 5130.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23322
5°	23023
10°	22489
15°	22114
20°	22020
25°	21979
30°	21852
35°	20382
40°	12546
45°	6596
50°	6124
55°	6396
60°	6625
65°	6572
70°	6383
75°	6082
80°	5731
85°	5281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 6626 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	5.5
10°-20°	784.1	15.3
20°-30°	1190.5	23.2
30°-40°	1268.5	24.7
40°-50°	542.0	10.6
50°-60°	425.0	8.3
60°-70°	355.3	6.9
70°-80°	216.5	4.2
80°-90°	68.4	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°	2255.2	44.0
0°-40°	3523.7	68.7
0°-60°	4490.7	87.5
0°-90°	5130.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5130.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3025	
5°	2975	281
15°	2771	784
25°	2584	1190
35°	2166	1269
45°	605	542
55°	476	425
65°	360	355
75°	204	216
85°	60	68
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3025.2
2.5°	3015.5
5°	2975.1
7.5°	2923.0
10°	2872.9
12.5°	2822.8
15°	2770.8
17.5°	2730.4
20°	2684.1
22.5°	2641.7
25°	2583.9
27.5°	2520.3
30°	2454.8
32.5°	2362.3
35°	2165.8
37.5°	1790.1
40°	1246.7
42.5°	822.8
45°	605.0
47.5°	529.9
50°	510.6
52.5°	495.2
55°	475.9
57.5°	456.7
60°	429.7
62.5°	396.9
65°	360.3
67.5°	321.8
70°	283.2
72.5°	242.8
75°	204.2
77.5°	167.6
80°	129.1
82.5°	94.4
85°	59.7
87.5°	32.8
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	16.95	18.29	17.31	18.60	18.92	16.95	18.29	17.31	18.60	18.92
	3H	18.95	20.15	19.33	20.48	20.85	18.95	20.15	19.33	20.48	20.85
	4H	19.71	20.83	20.11	21.18	21.57	19.71	20.83	20.11	21.18	21.57
	6H	20.29	21.33	20.71	21.70	22.10	20.29	21.33	20.71	21.70	22.10
	8H	20.49	21.48	20.92	21.87	22.27	20.49	21.48	20.92	21.87	22.27
	12H	20.63	21.58	21.06	21.96	22.39	20.63	21.58	21.06	21.96	22.39
4H	2H	17.62	18.74	18.02	19.09	19.48	17.62	18.74	18.02	19.09	19.48
	3H	19.82	20.75	20.23	21.16	21.56	19.82	20.75	20.23	21.16	21.56
	4H	20.70	21.54	21.13	21.96	22.40	20.70	21.54	21.13	21.96	22.40
	6H	21.42	22.15	21.88	22.59	23.06	21.42	22.15	21.88	22.59	23.06
	8H	21.67	22.35	22.13	22.80	23.27	21.67	22.35	22.13	22.80	23.27
	12H	21.85	22.46	22.34	22.94	23.41	21.85	22.46	22.34	22.94	23.41
8H	4H	21.02	21.70	21.49	22.15	22.62	21.02	21.70	21.49	22.15	22.62
	6H	21.88	22.44	22.38	22.93	23.41	21.88	22.44	22.38	22.93	23.41
	8H	22.22	22.72	22.74	23.23	23.72	22.22	22.72	22.74	23.23	23.72
	12H	22.49	22.93	23.01	23.43	24.00	22.49	22.93	23.01	23.43	24.00
12H	4H	21.05	21.66	21.53	22.14	22.61	21.05	21.66	21.53	22.14	22.61
	6H	21.94	22.44	22.46	22.96	23.45	21.94	22.44	22.46	22.96	23.45
	8H	22.34	22.78	22.86	23.28	23.85	22.34	22.78	22.86	23.28	23.85