

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: P979643

Luminaire Tested: PRLX-241-927-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979643
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-241-927-LL7-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

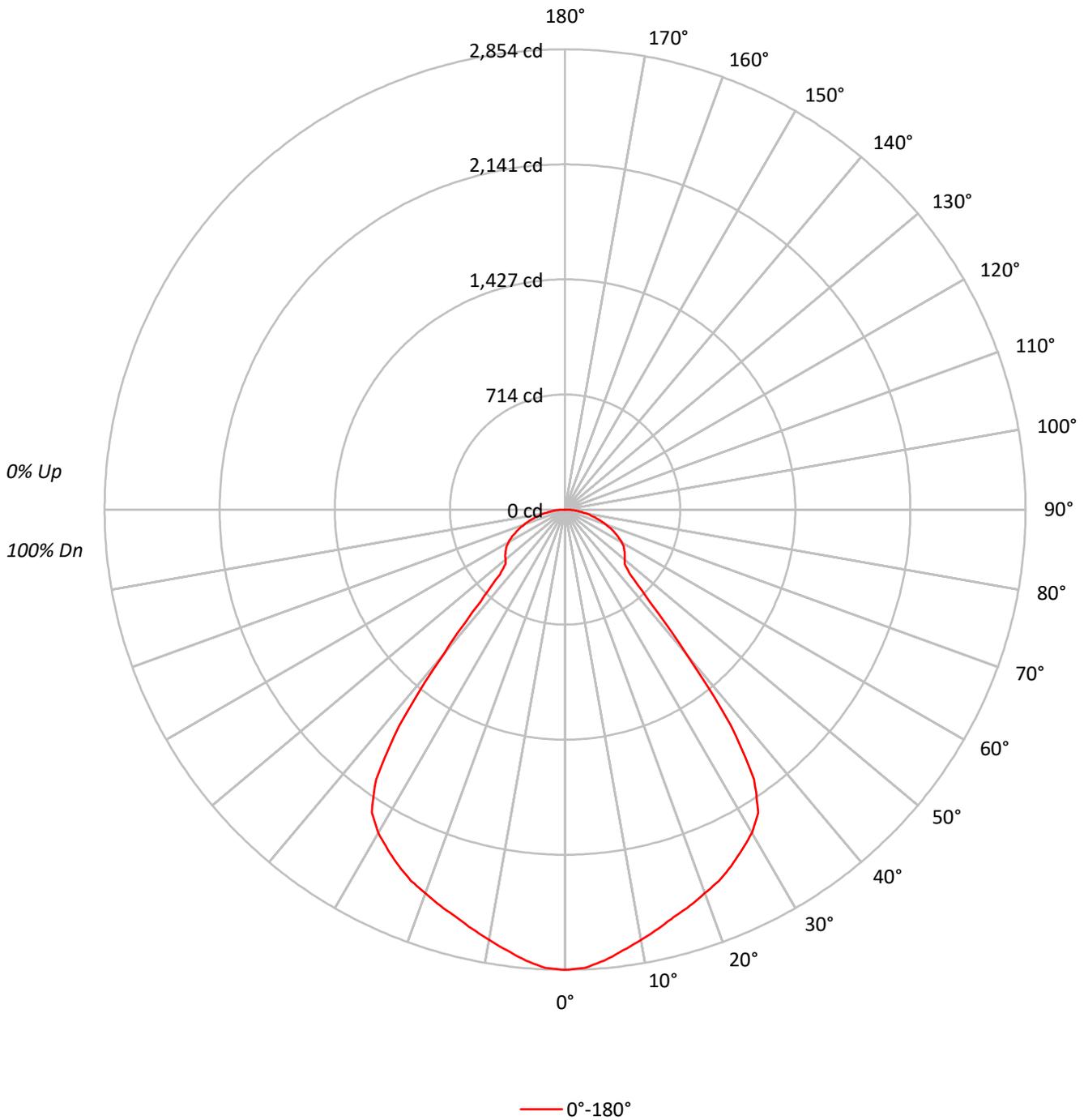
Lumens per Lamp: N/A
Luminaire Lumens: 4839.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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°	21999
5°	21717
10°	21214
15°	20860
20°	20771
25°	20733
30°	20613
35°	19226
40°	11835
45°	6222
50°	5777
55°	6033
60°	6249
65°	6200
70°	6023
75°	5740
80°	5407
85°	4980

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 6251 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	5.5
10°-20°	739.6	15.3
20°-30°	1123.0	23.2
30°-40°	1196.5	24.7
40°-50°	511.2	10.6
50°-60°	400.9	8.3
60°-70°	335.1	6.9
70°-80°	204.2	4.2
80°-90°	64.5	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°	2127.3	44.0
0°-40°	3323.9	68.7
0°-60°	4236.0	87.5
0°-90°	4839.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4839.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2854	
5°	2806	265
15°	2614	740
25°	2437	1123
35°	2043	1197
45°	571	511
55°	449	401
65°	340	335
75°	193	204
85°	56	65
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2853.6
2.5°	2844.5
5°	2806.3
7.5°	2757.3
10°	2710.0
12.5°	2662.7
15°	2613.7
17.5°	2575.5
20°	2531.9
22.5°	2491.9
25°	2437.4
27.5°	2377.4
30°	2315.6
32.5°	2228.3
35°	2042.9
37.5°	1688.5
40°	1176.0
42.5°	776.1
45°	570.7
47.5°	499.8
50°	481.7
52.5°	467.1
55°	448.9
57.5°	430.8
60°	405.3
62.5°	374.4
65°	339.9
67.5°	303.5
70°	267.2
72.5°	229.0
75°	192.7
77.5°	158.1
80°	121.8
82.5°	89.1
85°	56.3
87.5°	30.9
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	16.74	18.08	17.11	18.40	18.71	16.74	18.08	17.11	18.40	18.71
	3H	18.75	19.95	19.13	20.28	20.64	18.75	19.95	19.13	20.28	20.64
	4H	19.50	20.63	19.91	20.98	21.36	19.50	20.63	19.91	20.98	21.36
	6H	20.09	21.13	20.50	21.50	21.89	20.09	21.13	20.50	21.50	21.89
	8H	20.29	21.28	20.72	21.67	22.07	20.29	21.28	20.72	21.67	22.07
	12H	20.43	21.37	20.86	21.76	22.19	20.43	21.37	20.86	21.76	22.19
4H	2H	17.41	18.54	17.82	18.89	19.27	17.41	18.54	17.82	18.89	19.27
	3H	19.61	20.55	20.03	20.95	21.36	19.61	20.55	20.03	20.95	21.36
	4H	20.50	21.34	20.93	21.76	22.20	20.50	21.34	20.93	21.76	22.20
	6H	21.21	21.95	21.67	22.39	22.86	21.21	21.95	21.67	22.39	22.86
	8H	21.46	22.15	21.93	22.60	23.07	21.46	22.15	21.93	22.60	23.07
	12H	21.65	22.26	22.14	22.74	23.21	21.65	22.26	22.14	22.74	23.21
8H	4H	20.82	21.50	21.28	21.95	22.42	20.82	21.50	21.28	21.95	22.42
	6H	21.67	22.24	22.18	22.73	23.21	21.67	22.24	22.18	22.73	23.21
	8H	22.01	22.52	22.53	23.03	23.52	22.01	22.52	22.53	23.03	23.52
	12H	22.29	22.73	22.81	23.23	23.80	22.29	22.73	22.81	23.23	23.80
12H	4H	20.85	21.45	21.33	21.94	22.41	20.85	21.45	21.33	21.94	22.41
	6H	21.74	22.24	22.26	22.75	23.24	21.74	22.24	22.26	22.75	23.24
	8H	22.14	22.58	22.66	23.08	23.65	22.14	22.58	22.66	23.08	23.65