

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: P979323

Luminaire Tested: PRLX-240-927-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-LL7-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

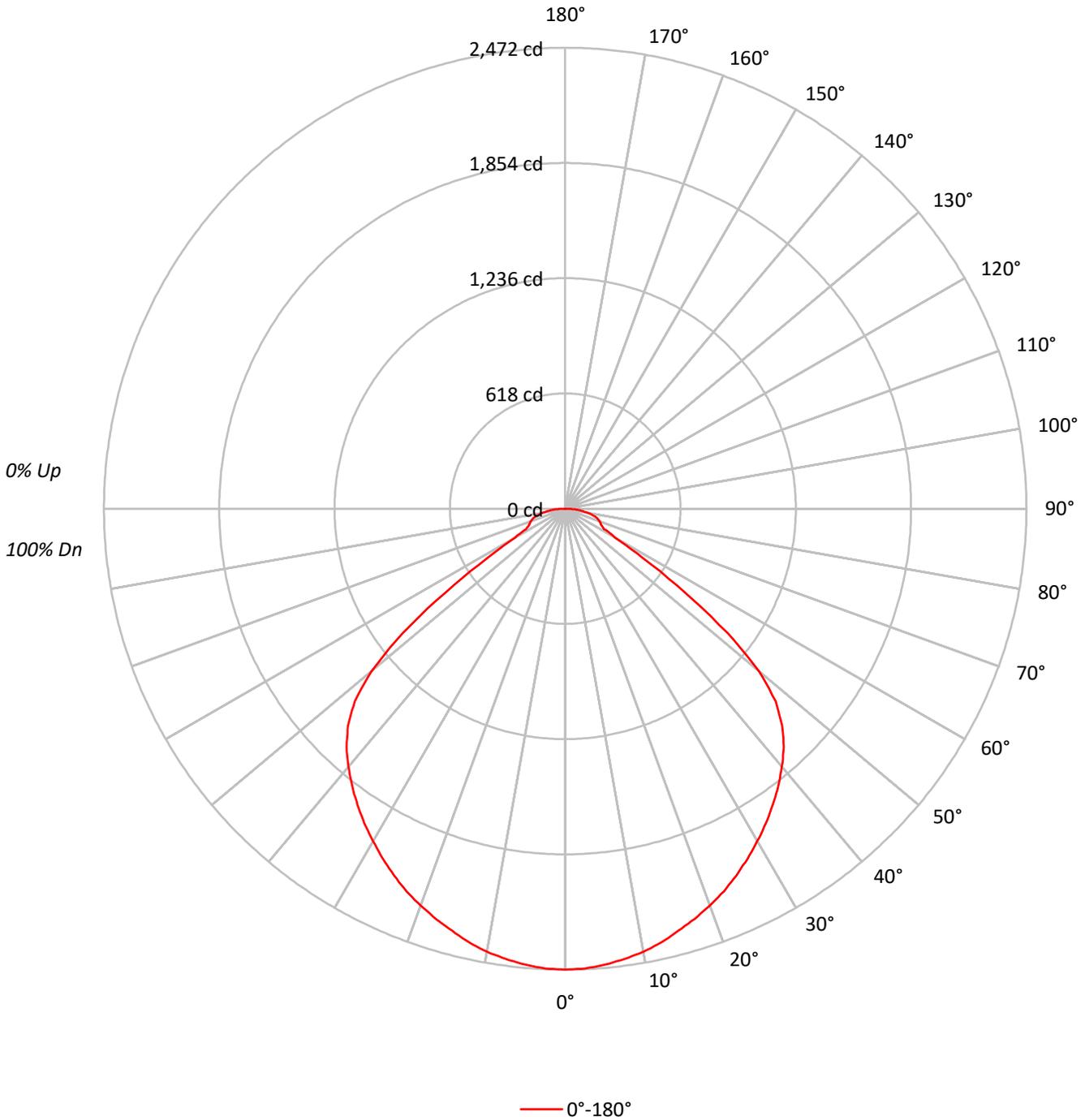
Lumens per Lamp: N/A
Luminaire Lumens: 5531.7 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	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	89	88																												
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76																												
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																												
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																												
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51																												
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46																												
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41																												
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37																												
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24890
5°	24819
10°	24678
15°	24422
20°	24267
25°	24111
30°	23943
35°	23838
40°	23748
45°	23423
50°	21211
55°	13784
60°	6223
65°	5111
70°	5779
75°	6435
80°	6744
85°	6932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23423 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	4.2
10°-20°	661.9	12.0
20°-30°	1000.3	18.1
30°-40°	1213.9	21.9
40°-50°	1251.5	22.6
50°-60°	709.8	12.8
60°-70°	224.5	4.1
70°-80°	171.3	3.1
80°-90°	65.3	1.2
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°	1895.3	34.3
0°-40°	3109.2	56.2
0°-60°	5070.5	91.7
0°-90°	5531.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5531.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2472	
5°	2456	233
15°	2343	662
25°	2170	1000
35°	1939	1214
45°	1645	1252
55°	785	710
65°	214	225
75°	165	171
85°	60	65
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2471.9
2.5°	2468.3
5°	2455.5
7.5°	2435.5
10°	2413.7
12.5°	2382.8
15°	2342.8
17.5°	2306.5
20°	2264.7
22.5°	2221.1
25°	2170.2
27.5°	2115.7
30°	2059.3
32.5°	2001.1
35°	1939.3
37.5°	1875.7
40°	1806.7
42.5°	1734.0
45°	1644.9
47.5°	1528.6
50°	1354.1
52.5°	1097.8
55°	785.2
57.5°	492.6
60°	309.0
62.5°	234.5
65°	214.5
67.5°	205.4
70°	196.3
72.5°	183.6
75°	165.4
77.5°	143.6
80°	116.3
82.5°	89.1
85°	60.0
87.5°	32.7
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	17.81	19.28	18.17	19.59	19.90	17.81	19.28	18.17	19.59	19.90
	3H	18.70	20.00	19.08	20.33	20.70	18.70	20.00	19.08	20.33	20.70
	4H	19.31	20.53	19.71	20.88	21.26	19.31	20.53	19.71	20.88	21.26
	6H	19.90	21.03	20.32	21.40	21.79	19.90	21.03	20.32	21.40	21.79
	8H	20.14	21.21	20.57	21.60	22.00	20.14	21.21	20.57	21.60	22.00
	12H	20.33	21.35	20.76	21.73	22.16	20.33	21.35	20.76	21.73	22.16
4H	2H	17.93	19.15	18.33	19.50	19.88	17.93	19.15	18.33	19.50	19.88
	3H	19.17	20.17	19.58	20.57	20.97	19.17	20.17	19.58	20.57	20.97
	4H	19.99	20.89	20.43	21.31	21.75	19.99	20.89	20.43	21.31	21.75
	6H	20.80	21.58	21.26	22.02	22.49	20.80	21.58	21.26	22.02	22.49
	8H	21.12	21.85	21.59	22.29	22.76	21.12	21.85	21.59	22.29	22.76
	12H	21.38	22.03	21.86	22.51	22.98	21.38	22.03	21.86	22.51	22.98
8H	4H	20.31	21.04	20.77	21.48	21.95	20.31	21.04	20.77	21.48	21.95
	6H	21.28	21.89	21.78	22.38	22.86	21.28	21.89	21.78	22.38	22.86
	8H	21.70	22.25	22.21	22.76	23.25	21.70	22.25	22.21	22.76	23.25
	12H	22.07	22.56	22.58	23.05	23.62	22.07	22.56	22.58	23.05	23.62
12H	4H	20.35	21.00	20.84	21.48	21.96	20.35	21.00	20.84	21.48	21.96
	6H	21.36	21.91	21.87	22.42	22.91	21.36	21.91	21.87	22.42	22.91
	8H	21.85	22.35	22.36	22.84	23.40	21.85	22.35	22.36	22.84	23.40