

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: P979401

Luminaire Tested: PRLX-240-930-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-LL7-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6145.8 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

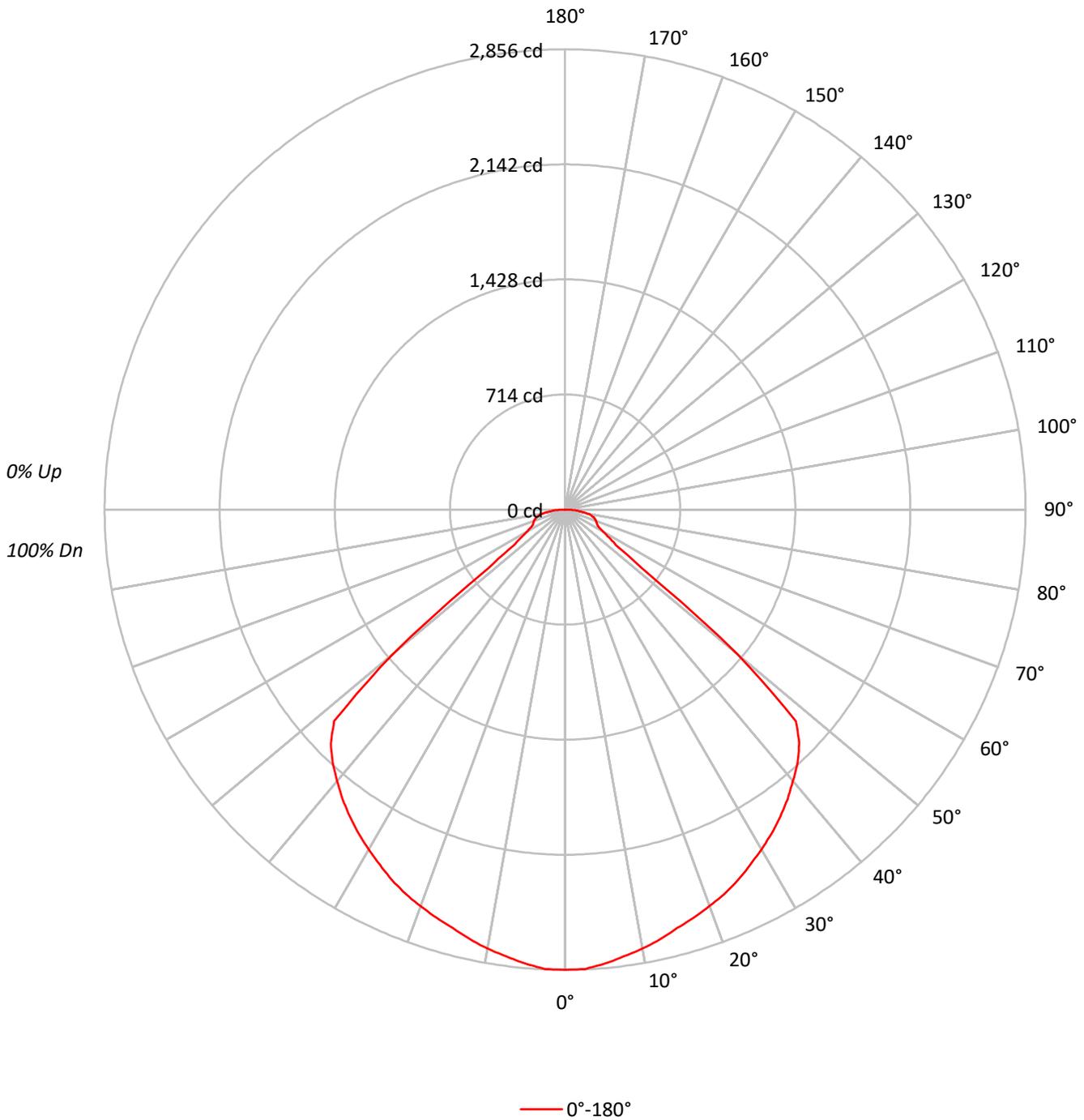
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68				68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60				60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35				35
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28753
5°	28590
10°	28291
15°	28020
20°	28059
25°	28194
30°	28318
35°	28587
40°	28897
45°	29248
50°	21852
55°	6799
60°	5433
65°	5234
70°	6012
75°	7123
80°	8159
85°	8018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29248 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	4.4
10°-20°	760.8	12.4
20°-30°	1170.0	19.0
30°-40°	1456.5	23.7
40°-50°	1527.9	24.9
50°-60°	472.4	7.7
60°-70°	223.9	3.6
70°-80°	189.1	3.1
80°-90°	77.4	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°	2198.7	35.8
0°-40°	3655.2	59.5
0°-60°	5655.5	92.0
0°-90°	6145.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6145.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2856	
5°	2829	268
15°	2688	761
25°	2538	1170
35°	2326	1456
45°	2054	1528
55°	387	472
65°	220	224
75°	183	189
85°	69	77
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2855.6
2.5°	2853.7
5°	2828.6
7.5°	2795.9
10°	2767.0
12.5°	2730.4
15°	2688.0
17.5°	2655.2
20°	2618.6
22.5°	2582.0
25°	2537.7
27.5°	2485.7
30°	2435.6
32.5°	2383.5
35°	2325.7
37.5°	2266.0
40°	2198.5
42.5°	2133.0
45°	2054.0
47.5°	1942.3
50°	1395.0
52.5°	599.3
55°	387.3
57.5°	321.8
60°	269.8
62.5°	235.1
65°	219.7
67.5°	212.0
70°	204.2
72.5°	194.6
75°	183.1
77.5°	165.7
80°	140.7
82.5°	106.0
85°	69.4
87.5°	38.5
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	14.65	16.08	15.02	16.39	16.71	14.65	16.08	15.02	16.39	16.71
	3H	16.61	17.88	16.99	18.21	18.57	16.61	17.88	16.99	18.21	18.57
	4H	17.77	18.96	18.18	19.31	19.69	17.77	18.96	18.18	19.31	19.69
	6H	18.91	19.99	19.32	20.36	20.76	18.91	19.99	19.32	20.36	20.76
	8H	19.33	20.37	19.76	20.76	21.16	19.33	20.37	19.76	20.76	21.16
	12H	19.64	20.63	20.07	21.01	21.44	19.64	20.63	20.07	21.01	21.44
4H	2H	15.16	16.34	15.56	16.69	17.07	15.16	16.34	15.56	16.69	17.07
	3H	17.53	18.50	17.94	18.90	19.30	17.53	18.50	17.94	18.90	19.30
	4H	18.91	19.78	19.34	20.19	20.63	18.91	19.78	19.34	20.19	20.63
	6H	20.23	20.99	20.69	21.43	21.89	20.23	20.99	20.69	21.43	21.89
	8H	20.73	21.44	21.19	21.88	22.35	20.73	21.44	21.19	21.88	22.35
	12H	21.10	21.73	21.58	22.21	22.68	21.10	21.73	21.58	22.21	22.68
8H	4H	19.44	20.15	19.91	20.59	21.06	19.44	20.15	19.91	20.59	21.06
	6H	20.94	21.53	21.44	22.02	22.50	20.94	21.53	21.44	22.02	22.50
	8H	21.55	22.08	22.07	22.59	23.08	21.55	22.08	22.07	22.59	23.08
	12H	22.03	22.51	22.54	23.00	23.57	22.03	22.51	22.54	23.00	23.57
12H	4H	19.53	20.16	20.02	20.65	21.12	19.53	20.16	20.02	20.65	21.12
	6H	21.08	21.62	21.60	22.13	22.62	21.08	21.62	21.60	22.13	22.62
	8H	21.76	22.24	22.28	22.73	23.30	21.76	22.24	22.28	22.73	23.30