

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: P979343

Luminaire Tested: PRLX-240-930-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979343
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-240-930-LL1-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

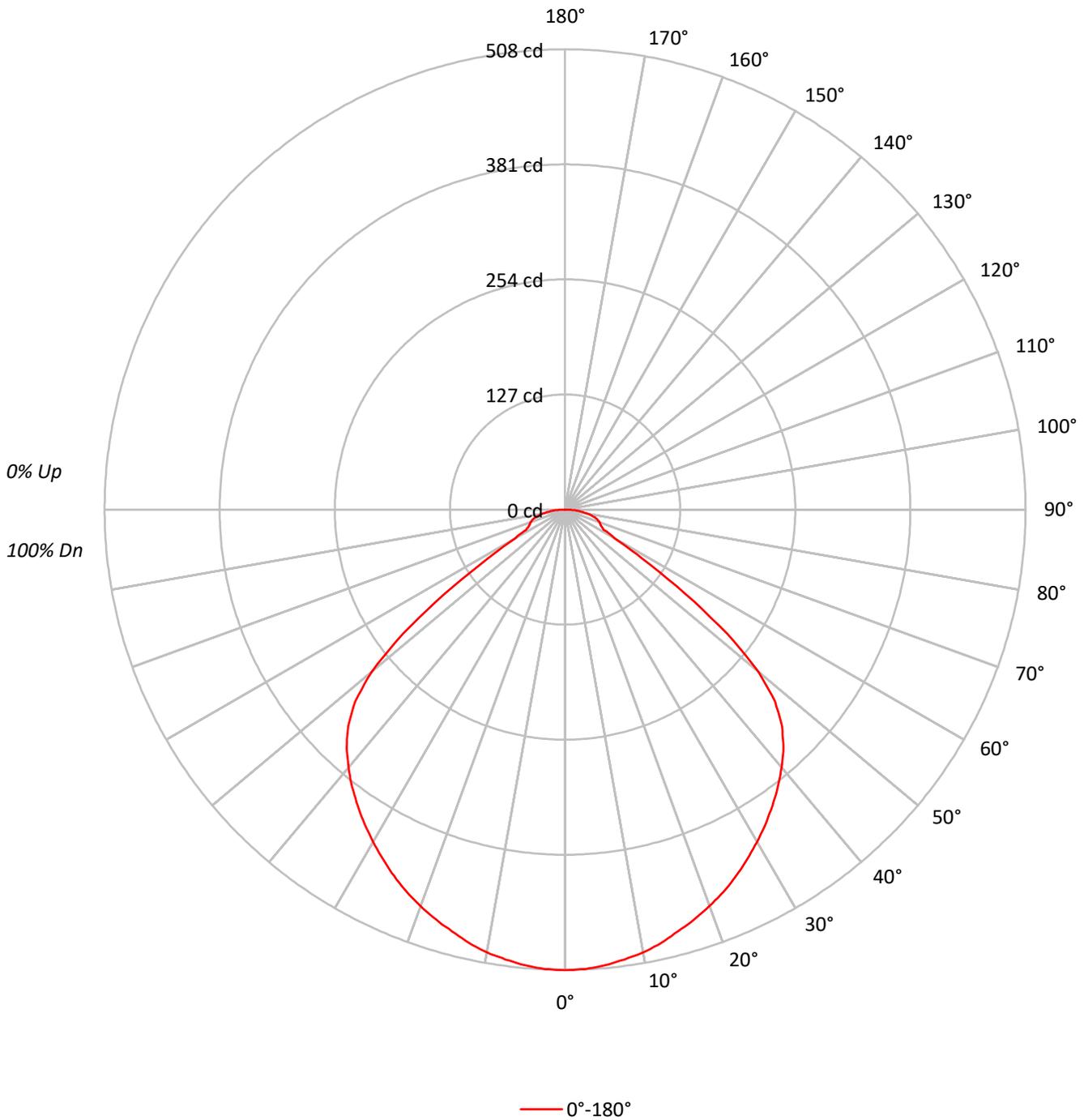
Lumens per Lamp: N/A
Luminaire Lumens: 1137.6 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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	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°	5119
5°	5104
10°	5075
15°	5022
20°	4991
25°	4958
30°	4924
35°	4902
40°	4884
45°	4817
50°	4363
55°	2835
60°	1279
65°	1051
70°	1189
75°	1323
80°	1386
85°	1421

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	4.2
10°-20°	136.1	12.0
20°-30°	205.7	18.1
30°-40°	249.7	21.9
40°-50°	257.4	22.6
50°-60°	146.0	12.8
60°-70°	46.1	4.1
70°-80°	35.2	3.1
80°-90°	13.4	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°	389.8	34.3
0°-40°	639.5	56.2
0°-60°	1042.8	91.7
0°-90°	1137.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	508	
5°	505	48
15°	482	136
25°	446	206
35°	399	250
45°	338	257
55°	162	146
65°	44	46
75°	34	35
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	508.4
2.5°	507.6
5°	505.0
7.5°	500.9
10°	496.4
12.5°	490.1
15°	481.8
17.5°	474.4
20°	465.8
22.5°	456.8
25°	446.3
27.5°	435.1
30°	423.5
32.5°	411.6
35°	398.8
37.5°	385.8
40°	371.6
42.5°	356.6
45°	338.3
47.5°	314.4
50°	278.5
52.5°	225.8
55°	161.5
57.5°	101.3
60°	63.5
62.5°	48.2
65°	44.1
67.5°	42.2
70°	40.4
72.5°	37.8
75°	34.0
77.5°	29.5
80°	23.9
82.5°	18.3
85°	12.3
87.5°	6.7
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	12.31	13.78	12.67	14.09	14.41	12.31	13.78	12.67	14.09	14.41
	3H	13.20	14.51	13.58	14.84	15.20	13.20	14.51	13.58	14.84	15.20
	4H	13.81	15.03	14.21	15.38	15.76	13.81	15.03	14.21	15.38	15.76
	6H	14.41	15.53	14.82	15.90	16.29	14.41	15.53	14.82	15.90	16.29
	8H	14.64	15.71	15.07	16.10	16.51	14.64	15.71	15.07	16.10	16.51
	12H	14.83	15.85	15.26	16.23	16.66	14.83	15.85	15.26	16.23	16.66
4H	2H	12.43	13.65	12.84	14.00	14.38	12.43	13.65	12.84	14.00	14.38
	3H	13.68	14.68	14.09	15.08	15.48	13.68	14.68	14.09	15.08	15.48
	4H	14.50	15.39	14.93	15.81	16.25	14.50	15.39	14.93	15.81	16.25
	6H	15.30	16.08	15.76	16.53	16.99	15.30	16.08	15.76	16.53	16.99
	8H	15.62	16.35	16.09	16.80	17.27	15.62	16.35	16.09	16.80	17.27
	12H	15.88	16.53	16.37	17.01	17.49	15.88	16.53	16.37	17.01	17.49
8H	4H	14.81	15.54	15.28	15.99	16.46	14.81	15.54	15.28	15.99	16.46
	6H	15.78	16.39	16.28	16.88	17.36	15.78	16.39	16.28	16.88	17.36
	8H	16.20	16.75	16.72	17.26	17.75	16.20	16.75	16.72	17.26	17.75
	12H	16.57	17.06	17.08	17.56	18.12	16.57	17.06	17.08	17.56	18.12
12H	4H	14.86	15.51	15.34	15.99	16.46	14.86	15.51	15.34	15.99	16.46
	6H	15.86	16.41	16.38	16.92	17.41	15.86	16.41	16.38	16.92	17.41
	8H	16.35	16.85	16.86	17.34	17.91	16.35	16.85	16.86	17.34	17.91