

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: P979733

Luminaire Tested: PRLX-241-930-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979733
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-LL8-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

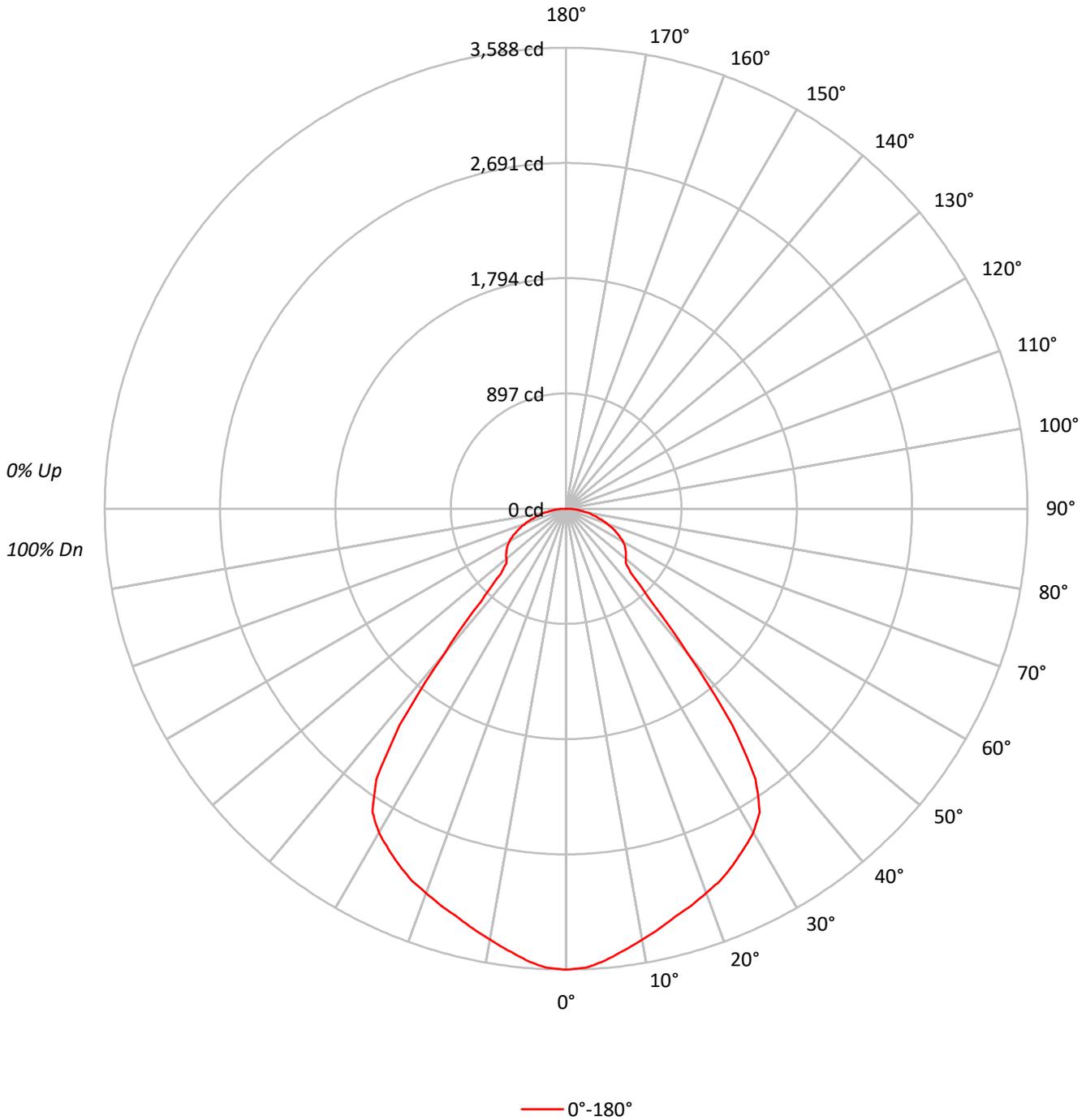
Lumens per Lamp: N/A
Luminaire Lumens: 6086.1 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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									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													100															
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88													88															
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77													77															
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68													68															
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61													61															
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54													54															
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49													49															
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45													45															
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41													41															
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38													38															
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	35													35															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27663
5°	27309
10°	26676
15°	26230
20°	26119
25°	26070
30°	25920
35°	24177
40°	14882
45°	7825
50°	7264
55°	7587
60°	7859
65°	7796
70°	7573
75°	7217
80°	6797
85°	6271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 7860 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.9	5.5
10°-20°	930.1	15.3
20°-30°	1412.1	23.2
30°-40°	1504.7	24.7
40°-50°	642.8	10.6
50°-60°	504.1	8.3
60°-70°	421.4	6.9
70°-80°	256.8	4.2
80°-90°	81.2	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°	2675.0	44.0
0°-40°	4179.7	68.7
0°-60°	5326.7	87.5
0°-90°	6086.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6086.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3588	
5°	3529	333
15°	3287	930
25°	3065	1412
35°	2569	1505
45°	718	643
55°	564	504
65°	427	421
75°	242	257
85°	71	81
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3588.3
2.5°	3576.9
5°	3528.9
7.5°	3467.2
10°	3407.8
12.5°	3348.3
15°	3286.6
17.5°	3238.6
20°	3183.8
22.5°	3133.5
25°	3064.9
27.5°	2989.5
30°	2911.8
32.5°	2802.1
35°	2569.0
37.5°	2123.3
40°	1478.8
42.5°	975.9
45°	717.7
47.5°	628.5
50°	605.7
52.5°	587.4
55°	564.5
57.5°	541.7
60°	509.7
62.5°	470.8
65°	427.4
67.5°	381.7
70°	336.0
72.5°	288.0
75°	242.3
77.5°	198.8
80°	153.1
82.5°	112.0
85°	70.9
87.5°	38.9
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	17.54	18.88	17.90	19.19	19.51	17.54	18.88	17.90	19.19	19.51
	3H	19.54	20.75	19.92	21.08	21.44	19.54	20.75	19.92	21.08	21.44
	4H	20.30	21.43	20.70	21.78	22.16	20.30	21.43	20.70	21.78	22.16
	6H	20.89	21.93	21.30	22.29	22.69	20.89	21.93	21.30	22.29	22.69
	8H	21.09	22.07	21.52	22.46	22.87	21.09	22.07	21.52	22.46	22.87
	12H	21.22	22.17	21.66	22.55	22.98	21.22	22.17	21.66	22.55	22.98
4H	2H	18.21	19.34	18.61	19.69	20.07	18.21	19.34	18.61	19.69	20.07
	3H	20.41	21.35	20.82	21.75	22.15	20.41	21.35	20.82	21.75	22.15
	4H	21.29	22.14	21.73	22.56	23.00	21.29	22.14	21.73	22.56	23.00
	6H	22.01	22.74	22.47	23.19	23.65	22.01	22.74	22.47	23.19	23.65
	8H	22.26	22.94	22.73	23.39	23.86	22.26	22.94	22.73	23.39	23.86
	12H	22.45	23.05	22.93	23.54	24.01	22.45	23.05	22.93	23.54	24.01
8H	4H	21.61	22.30	22.08	22.74	23.21	21.61	22.30	22.08	22.74	23.21
	6H	22.47	23.03	22.97	23.53	24.01	22.47	23.03	22.97	23.53	24.01
	8H	22.81	23.31	23.33	23.82	24.32	22.81	23.31	23.33	23.82	24.32
	12H	23.09	23.53	23.60	24.02	24.59	23.09	23.53	23.60	24.02	24.59
12H	4H	21.64	22.25	22.13	22.73	23.20	21.64	22.25	22.13	22.73	23.20
	6H	22.53	23.04	23.05	23.55	24.04	22.53	23.04	23.05	23.55	24.04
	8H	22.94	23.38	23.45	23.87	24.44	22.94	23.38	23.45	23.87	24.44