

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: P979333

Luminaire Tested: PRLX-240-927-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979333
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-LL8-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

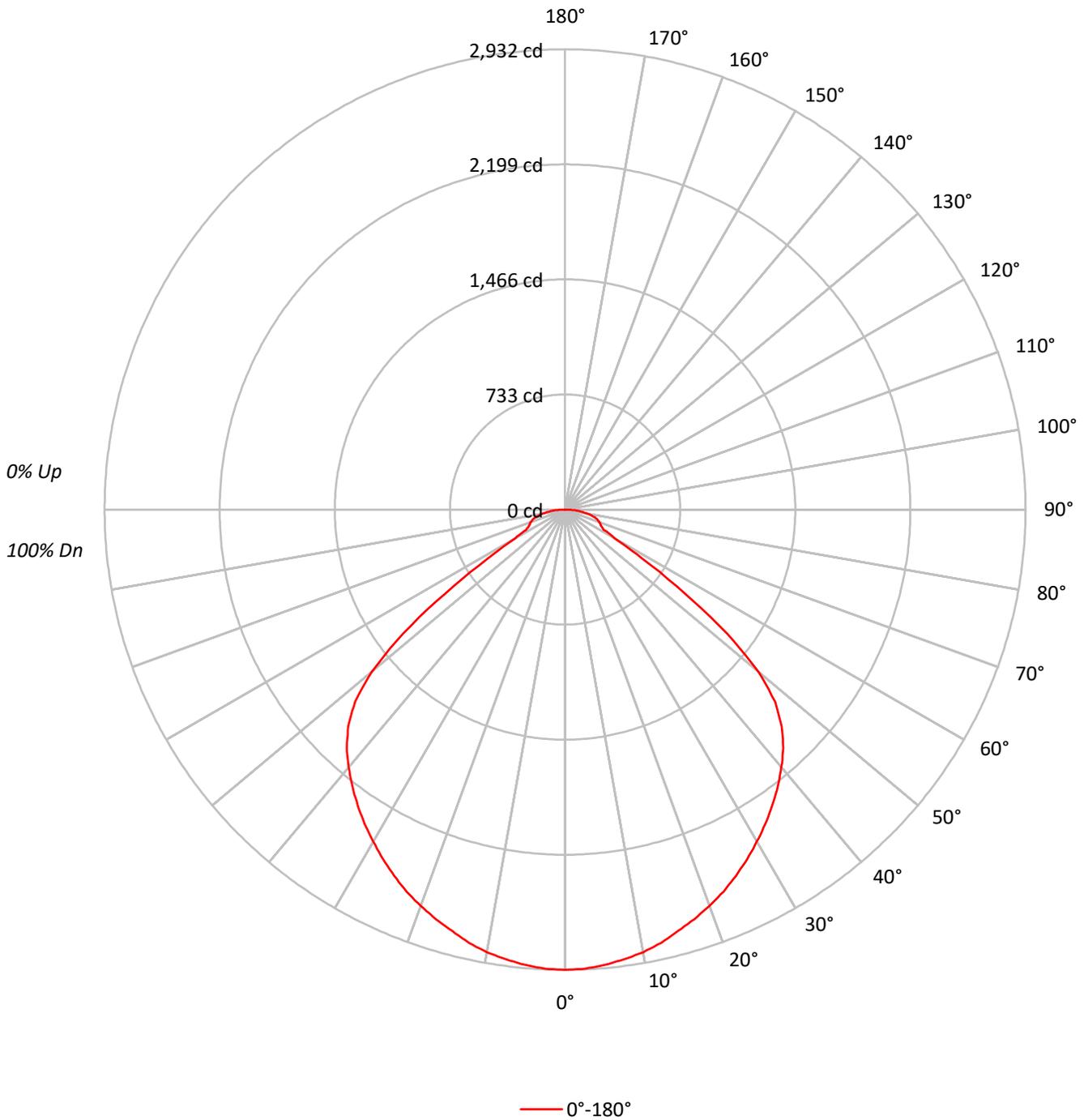
Lumens per Lamp: N/A
Luminaire Lumens: 6561.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	
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°	29522
5°	29439
10°	29273
15°	28969
20°	28784
25°	28599
30°	28401
35°	28276
40°	28168
45°	27783
50°	25160
55°	16351
60°	7381
65°	6061
70°	6854
75°	7633
80°	8002
85°	8214

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27783 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	4.2
10°-20°	785.2	12.0
20°-30°	1186.5	18.1
30°-40°	1439.9	21.9
40°-50°	1484.5	22.6
50°-60°	841.9	12.8
60°-70°	266.3	4.1
70°-80°	203.2	3.1
80°-90°	77.4	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°	2248.1	34.3
0°-40°	3688.0	56.2
0°-60°	6014.5	91.7
0°-90°	6561.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6561.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2932	
5°	2913	276
15°	2779	785
25°	2574	1187
35°	2300	1440
45°	1951	1484
55°	931	842
65°	254	266
75°	196	203
85°	71	77
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2932.0
2.5°	2927.7
5°	2912.6
7.5°	2888.9
10°	2863.1
12.5°	2826.4
15°	2779.0
17.5°	2735.9
20°	2686.3
22.5°	2634.5
25°	2574.2
27.5°	2509.5
30°	2442.7
32.5°	2373.7
35°	2300.4
37.5°	2224.9
40°	2143.0
42.5°	2056.7
45°	1951.1
47.5°	1813.1
50°	1606.2
52.5°	1302.2
55°	931.4
57.5°	584.3
60°	366.5
62.5°	278.1
65°	254.4
67.5°	243.6
70°	232.8
72.5°	217.7
75°	196.2
77.5°	170.3
80°	138.0
82.5°	105.6
85°	71.1
87.5°	38.8
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	18.40	19.87	18.76	20.18	20.50	18.40	19.87	18.76	20.18	20.50
	3H	19.29	20.60	19.67	20.93	21.29	19.29	20.60	19.67	20.93	21.29
	4H	19.90	21.12	20.30	21.47	21.85	19.90	21.12	20.30	21.47	21.85
	6H	20.50	21.62	20.91	21.99	22.38	20.50	21.62	20.91	21.99	22.38
	8H	20.73	21.80	21.16	22.19	22.59	20.73	21.80	21.16	22.19	22.59
	12H	20.92	21.94	21.35	22.32	22.75	20.92	21.94	21.35	22.32	22.75
4H	2H	18.52	19.74	18.92	20.09	20.47	18.52	19.74	18.92	20.09	20.47
	3H	19.77	20.76	20.18	21.17	21.57	19.77	20.76	20.18	21.17	21.57
	4H	20.59	21.48	21.02	21.90	22.34	20.59	21.48	21.02	21.90	22.34
	6H	21.39	22.17	21.85	22.62	23.08	21.39	22.17	21.85	22.62	23.08
	8H	21.71	22.44	22.18	22.89	23.36	21.71	22.44	22.18	22.89	23.36
	12H	21.97	22.62	22.46	23.10	23.58	21.97	22.62	22.46	23.10	23.58
8H	4H	20.90	21.63	21.37	22.08	22.54	20.90	21.63	21.37	22.08	22.54
	6H	21.87	22.48	22.37	22.97	23.45	21.87	22.48	22.37	22.97	23.45
	8H	22.29	22.84	22.81	23.35	23.84	22.29	22.84	22.81	23.35	23.84
	12H	22.66	23.15	23.17	23.65	24.21	22.66	23.15	23.17	23.65	24.21
12H	4H	20.94	21.60	21.43	22.08	22.55	20.94	21.60	21.43	22.08	22.55
	6H	21.95	22.50	22.47	23.01	23.50	21.95	22.50	22.47	23.01	23.50
	8H	22.44	22.94	22.95	23.43	24.00	22.44	22.94	22.95	23.43	24.00