

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: P979663

Luminaire Tested: PRLX-241-930-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979663
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-LL1-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

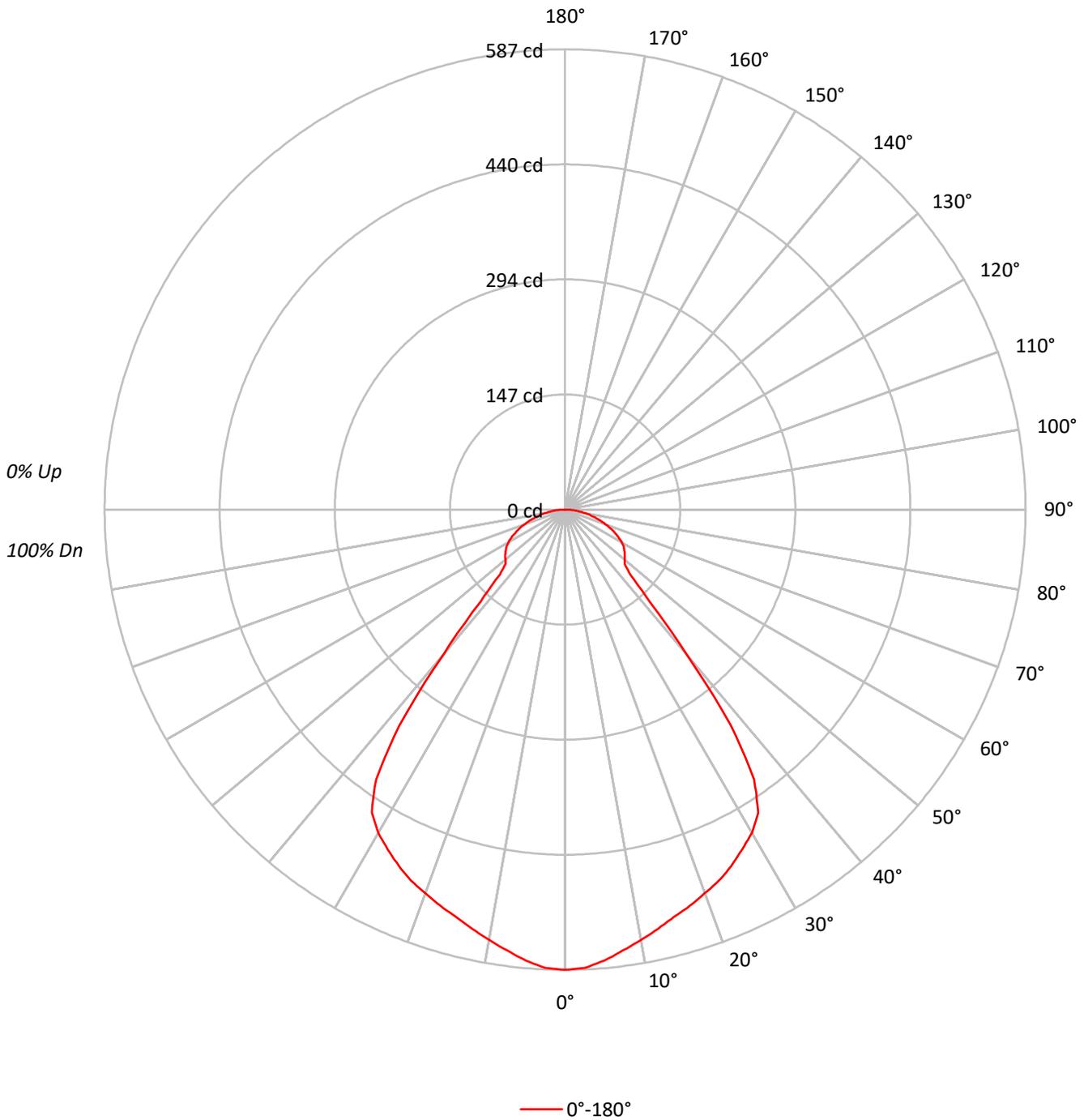
Lumens per Lamp: N/A
Luminaire Lumens: 995.4 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4524
5°	4467
10°	4363
15°	4290
20°	4272
25°	4264
30°	4239
35°	3955
40°	2434
45°	1280
50°	1189
55°	1241
60°	1286
65°	1275
70°	1237
75°	1180
80°	1110
85°	1026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 1286 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	5.5
10°-20°	152.1	15.3
20°-30°	230.9	23.2
30°-40°	246.1	24.7
40°-50°	105.1	10.6
50°-60°	82.5	8.3
60°-70°	68.9	6.9
70°-80°	42.0	4.2
80°-90°	13.3	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°	437.5	44.0
0°-40°	683.6	68.7
0°-60°	871.2	87.5
0°-90°	995.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	995.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	587	
5°	577	54
15°	538	152
25°	501	231
35°	420	246
45°	117	105
55°	92	82
65°	70	69
75°	40	42
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	586.9
2.5°	585.0
5°	577.2
7.5°	567.1
10°	557.3
12.5°	547.6
15°	537.5
17.5°	529.7
20°	520.7
22.5°	512.5
25°	501.3
27.5°	488.9
30°	476.2
32.5°	458.3
35°	420.2
37.5°	347.3
40°	241.9
42.5°	159.6
45°	117.4
47.5°	102.8
50°	99.1
52.5°	96.1
55°	92.3
57.5°	88.6
60°	83.4
62.5°	77.0
65°	69.9
67.5°	62.4
70°	54.9
72.5°	47.1
75°	39.6
77.5°	32.5
80°	25.0
82.5°	18.3
85°	11.6
87.5°	6.4
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	11.25	12.59	11.61	12.90	13.22	11.25	12.59	11.61	12.90	13.22
	3H	13.25	14.45	13.63	14.78	15.15	13.25	14.45	13.63	14.78	15.15
	4H	14.01	15.13	14.41	15.48	15.87	14.01	15.13	14.41	15.48	15.87
	6H	14.59	15.63	15.01	16.00	16.39	14.59	15.63	15.01	16.00	16.39
	8H	14.79	15.78	15.22	16.17	16.57	14.79	15.78	15.22	16.17	16.57
	12H	14.93	15.87	15.36	16.26	16.69	14.93	15.87	15.36	16.26	16.69
4H	2H	11.92	13.05	12.32	13.40	13.78	11.92	13.05	12.32	13.40	13.78
	3H	14.12	15.05	14.53	15.46	15.86	14.12	15.05	14.53	15.46	15.86
	4H	15.00	15.84	15.43	16.26	16.70	15.00	15.84	15.43	16.26	16.70
	6H	15.72	16.45	16.18	16.89	17.36	15.72	16.45	16.18	16.89	17.36
	8H	15.97	16.65	16.43	17.10	17.57	15.97	16.65	16.43	17.10	17.57
	12H	16.15	16.76	16.64	17.24	17.71	16.15	16.76	16.64	17.24	17.71
8H	4H	15.32	16.00	15.79	16.45	16.92	15.32	16.00	15.79	16.45	16.92
	6H	16.18	16.74	16.68	17.23	17.71	16.18	16.74	16.68	17.23	17.71
	8H	16.51	17.02	17.03	17.53	18.02	16.51	17.02	17.03	17.53	18.02
	12H	16.79	17.23	17.31	17.73	18.30	16.79	17.23	17.31	17.73	18.30
12H	4H	15.35	15.96	15.83	16.44	16.91	15.35	15.96	15.83	16.44	16.91
	6H	16.24	16.74	16.76	17.25	17.75	16.24	16.74	16.76	17.25	17.75
	8H	16.64	17.08	17.16	17.58	18.15	16.64	17.08	17.16	17.58	18.15