

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: P979743

Luminaire Tested: PRLX-241-935-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979743
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-241-935-LL1-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

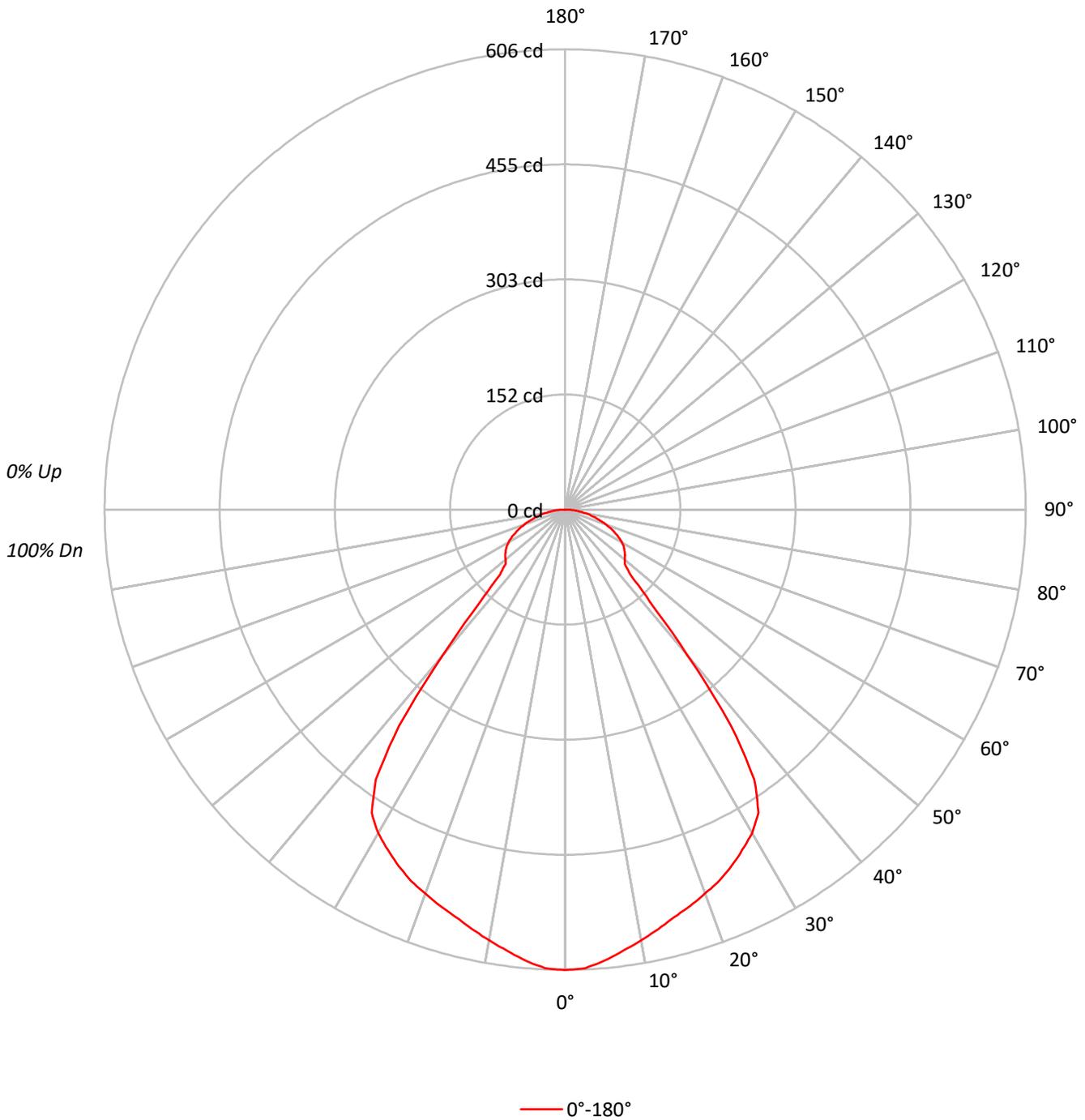
Lumens per Lamp: N/A
Luminaire Lumens: 1028.4 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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										
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	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°	4674
5°	4614
10°	4507
15°	4432
20°	4414
25°	4405
30°	4380
35°	4085
40°	2515
45°	1322
50°	1227
55°	1282
60°	1328
65°	1317
70°	1280
75°	1218
80°	1150
85°	1061

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 1329 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	5.5
10°-20°	157.2	15.3
20°-30°	238.6	23.2
30°-40°	254.3	24.7
40°-50°	108.6	10.6
50°-60°	85.2	8.3
60°-70°	71.2	6.9
70°-80°	43.4	4.2
80°-90°	13.7	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°	452.0	44.0
0°-40°	706.3	68.7
0°-60°	900.1	87.5
0°-90°	1028.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	606	
5°	596	56
15°	555	157
25°	518	239
35°	434	254
45°	121	109
55°	95	85
65°	72	71
75°	41	43
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	606.3
2.5°	604.4
5°	596.3
7.5°	585.9
10°	575.8
12.5°	565.8
15°	555.3
17.5°	547.2
20°	538.0
22.5°	529.5
25°	517.9
27.5°	505.1
30°	492.0
32.5°	473.5
35°	434.1
37.5°	358.8
40°	249.9
42.5°	164.9
45°	121.3
47.5°	106.2
50°	102.3
52.5°	99.3
55°	95.4
57.5°	91.5
60°	86.1
62.5°	79.6
65°	72.2
67.5°	64.5
70°	56.8
72.5°	48.7
75°	40.9
77.5°	33.6
80°	25.9
82.5°	18.9
85°	12.0
87.5°	6.6
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	11.36	12.70	11.72	13.01	13.33	11.36	12.70	11.72	13.01	13.33
	3H	13.36	14.57	13.74	14.90	15.26	13.36	14.57	13.74	14.90	15.26
	4H	14.12	15.25	14.52	15.60	15.98	14.12	15.25	14.52	15.60	15.98
	6H	14.71	15.75	15.12	16.12	16.51	14.71	15.75	15.12	16.12	16.51
	8H	14.91	15.90	15.34	16.29	16.69	14.91	15.90	15.34	16.29	16.69
	12H	15.05	15.99	15.48	16.37	16.80	15.05	15.99	15.48	16.37	16.80
4H	2H	12.03	13.16	12.43	13.51	13.89	12.03	13.16	12.43	13.51	13.89
	3H	14.23	15.17	14.64	15.57	15.98	14.23	15.17	14.64	15.57	15.98
	4H	15.11	15.96	15.55	16.38	16.82	15.11	15.96	15.55	16.38	16.82
	6H	15.83	16.57	16.29	17.01	17.47	15.83	16.57	16.29	17.01	17.47
	8H	16.08	16.77	16.55	17.21	17.68	16.08	16.77	16.55	17.21	17.68
	12H	16.27	16.88	16.75	17.36	17.83	16.27	16.88	16.75	17.36	17.83
8H	4H	15.43	16.12	15.90	16.57	17.04	15.43	16.12	15.90	16.57	17.04
	6H	16.29	16.85	16.79	17.35	17.83	16.29	16.85	16.79	17.35	17.83
	8H	16.63	17.13	17.15	17.65	18.14	16.63	17.13	17.15	17.65	18.14
	12H	16.91	17.35	17.42	17.84	18.41	16.91	17.35	17.42	17.84	18.41
12H	4H	15.46	16.07	15.95	16.55	17.03	15.46	16.07	15.95	16.55	17.03
	6H	16.36	16.86	16.88	17.37	17.86	16.36	16.86	16.88	17.37	17.86
	8H	16.76	17.20	17.27	17.69	18.26	16.76	17.20	17.27	17.69	18.26