

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: P979421

Luminaire Tested: PRLX-240-935-LL1-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-LL1-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

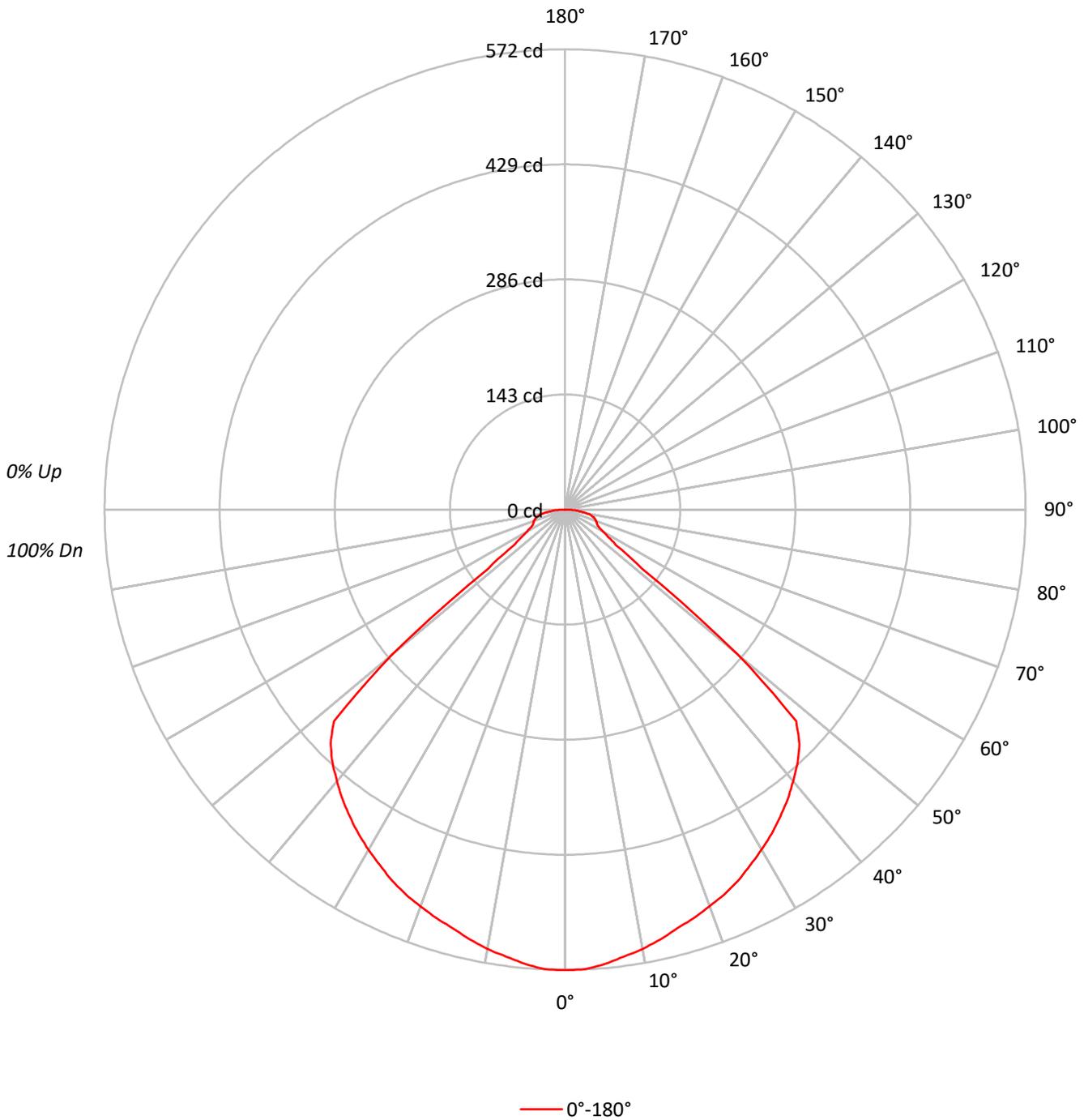
Lumens per Lamp: N/A
Luminaire Lumens: 1231.7 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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									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	105	101	99	100	98	96	97	95	93	93	91	90	88													88															
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77													77															
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68													68															
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60													60															
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53													53															
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47													47															
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42													42															
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38													38															
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35													35															
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32													32															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5762
5°	5730
10°	5670
15°	5616
20°	5623
25°	5651
30°	5675
35°	5729
40°	5791
45°	5862
50°	4380
55°	1362
60°	1089
65°	1048
70°	1204
75°	1428
80°	1635
85°	1606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5862 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	4.4
10°-20°	152.5	12.4
20°-30°	234.5	19.0
30°-40°	291.9	23.7
40°-50°	306.2	24.9
50°-60°	94.7	7.7
60°-70°	44.9	3.6
70°-80°	37.9	3.1
80°-90°	15.5	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°	440.7	35.8
0°-40°	732.6	59.5
0°-60°	1133.5	92.0
0°-90°	1231.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	572	
5°	567	54
15°	539	152
25°	509	234
35°	466	292
45°	412	306
55°	78	95
65°	44	45
75°	37	38
85°	14	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	572.3
2.5°	571.9
5°	566.9
7.5°	560.4
10°	554.6
12.5°	547.2
15°	538.7
17.5°	532.2
20°	524.8
22.5°	517.5
25°	508.6
27.5°	498.2
30°	488.1
32.5°	477.7
35°	466.1
37.5°	454.2
40°	440.6
42.5°	427.5
45°	411.7
47.5°	389.3
50°	279.6
52.5°	120.1
55°	77.6
57.5°	64.5
60°	54.1
62.5°	47.1
65°	44.0
67.5°	42.5
70°	40.9
72.5°	39.0
75°	36.7
77.5°	33.2
80°	28.2
82.5°	21.2
85°	13.9
87.5°	7.7
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	9.07	10.49	9.43	10.81	11.12	9.07	10.49	9.43	10.81	11.12
	3H	11.03	12.30	11.41	12.63	12.99	11.03	12.30	11.41	12.63	12.99
	4H	12.19	13.37	12.59	13.72	14.10	12.19	13.37	12.59	13.72	14.10
	6H	13.32	14.41	13.74	14.78	15.17	13.32	14.41	13.74	14.78	15.17
	8H	13.75	14.78	14.18	15.17	15.57	13.75	14.78	14.18	15.17	15.57
	12H	14.05	15.04	14.48	15.42	15.85	14.05	15.04	14.48	15.42	15.85
4H	2H	9.58	10.76	9.98	11.11	11.49	9.58	10.76	9.98	11.11	11.49
	3H	11.94	12.91	12.35	13.31	13.72	11.94	12.91	12.35	13.31	13.72
	4H	13.32	14.19	13.76	14.61	15.05	13.32	14.19	13.76	14.61	15.05
	6H	14.65	15.40	15.11	15.85	16.31	14.65	15.40	15.11	15.85	16.31
	8H	15.14	15.85	15.61	16.29	16.76	15.14	15.85	15.61	16.29	16.76
	12H	15.51	16.14	15.99	16.62	17.09	15.51	16.14	15.99	16.62	17.09
8H	4H	13.85	14.56	14.32	15.01	15.48	13.85	14.56	14.32	15.01	15.48
	6H	15.36	15.95	15.86	16.44	16.92	15.36	15.95	15.86	16.44	16.92
	8H	15.96	16.49	16.48	17.01	17.50	15.96	16.49	16.48	17.01	17.50
	12H	16.44	16.92	16.95	17.41	17.98	16.44	16.92	16.95	17.41	17.98
12H	4H	13.95	14.58	14.43	15.06	15.53	13.95	14.58	14.43	15.06	15.53
	6H	15.50	16.03	16.01	16.54	17.03	15.50	16.03	16.01	16.54	17.03
	8H	16.18	16.65	16.69	17.15	17.71	16.18	16.65	16.69	17.15	17.71