

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: P980303

Luminaire Tested: PRLX-243-930-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-930-LL1-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

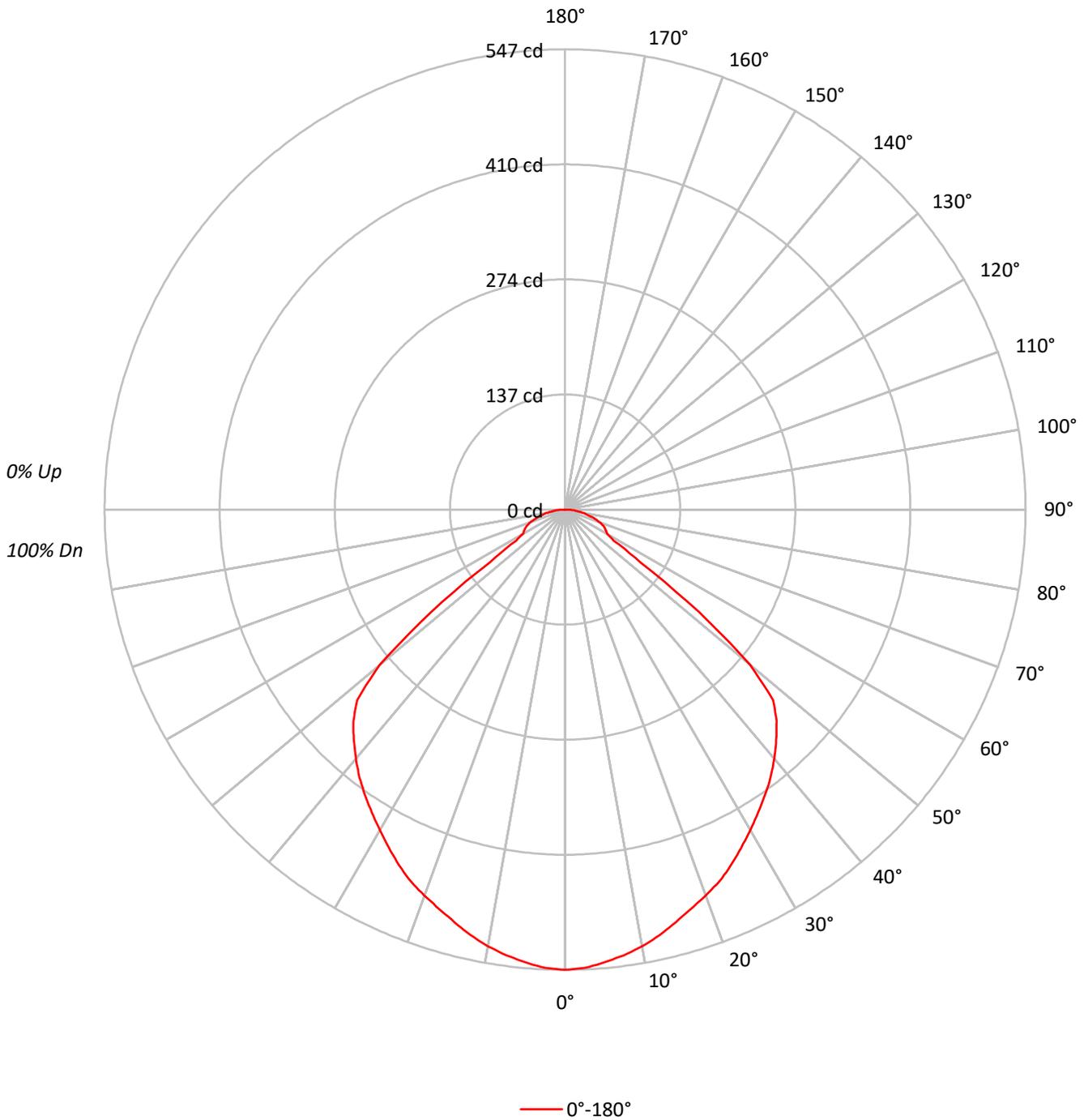
Lumens per Lamp: N/A
Luminaire Lumens: 1155.9 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	95	97	95	93	93	91	90	88													88															
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77													77															
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67													67															
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59													59															
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52													52															
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46													46															
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42													42															
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	37													37															
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34													34															
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31													31															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2698
5°	2675
10°	2641
15°	2593
20°	2563
25°	2540
30°	2507
35°	2495
40°	2489
45°	2480
50°	2201
55°	942
60°	568
65°	607
70°	626
75°	606
80°	585
85°	594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2480 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	4.4
10°-20°	143.3	12.4
20°-30°	214.8	18.6
30°-40°	259.3	22.4
40°-50°	269.8	23.3
50°-60°	121.4	10.5
60°-70°	50.9	4.4
70°-80°	33.7	2.9
80°-90°	11.5	1.0
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°	409.3	35.4
0°-40°	668.7	57.8
0°-60°	1059.8	91.7
0°-90°	1155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	547	
5°	540	51
15°	508	143
25°	466	215
35°	414	259
45°	356	270
55°	110	121
65°	52	51
75°	32	34
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	546.9
2.5°	545.4
5°	540.1
7.5°	534.2
10°	527.1
12.5°	518.1
15°	507.6
17.5°	497.5
20°	488.2
22.5°	478.5
25°	466.5
27.5°	453.1
30°	440.0
32.5°	426.9
35°	414.2
37.5°	401.1
40°	386.5
42.5°	371.2
45°	355.5
47.5°	334.9
50°	286.7
52.5°	200.4
55°	109.5
57.5°	68.4
60°	57.6
62.5°	54.9
65°	52.0
67.5°	48.2
70°	43.4
72.5°	37.8
75°	31.8
77.5°	26.2
80°	20.6
82.5°	15.3
85°	10.5
87.5°	6.0
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	7.19	8.64	7.56	8.95	9.27	7.19	8.64	7.56	8.95	9.27
	3H	9.28	10.57	9.66	10.90	11.26	9.28	10.57	9.66	10.90	11.26
	4H	10.11	11.31	10.51	11.66	12.04	10.11	11.31	10.51	11.66	12.04
	6H	10.76	11.87	11.17	12.24	12.63	10.76	11.87	11.17	12.24	12.63
	8H	10.99	12.05	11.42	12.44	12.84	10.99	12.05	11.42	12.44	12.84
	12H	11.18	12.18	11.61	12.56	12.99	11.18	12.18	11.61	12.56	12.99
4H	2H	7.85	9.06	8.26	9.41	9.79	7.85	9.06	8.26	9.41	9.79
	3H	10.20	11.18	10.61	11.58	11.99	10.20	11.18	10.61	11.58	11.99
	4H	11.16	12.04	11.59	12.46	12.90	11.16	12.04	11.59	12.46	12.90
	6H	11.94	12.71	12.40	13.15	13.62	11.94	12.71	12.40	13.15	13.62
	8H	12.23	12.95	12.70	13.39	13.86	12.23	12.95	12.70	13.39	13.86
	12H	12.47	13.10	12.95	13.58	14.06	12.47	13.10	12.95	13.58	14.06
8H	4H	11.51	12.23	11.98	12.68	13.14	11.51	12.23	11.98	12.68	13.14
	6H	12.44	13.03	12.94	13.53	14.00	12.44	13.03	12.94	13.53	14.00
	8H	12.81	13.35	13.33	13.86	14.35	12.81	13.35	13.33	13.86	14.35
	12H	13.15	13.63	13.66	14.12	14.69	13.15	13.63	13.66	14.12	14.69
12H	4H	11.55	12.19	12.04	12.67	13.14	11.55	12.19	12.04	12.67	13.14
	6H	12.51	13.05	13.03	13.56	14.05	12.51	13.05	13.03	13.56	14.05
	8H	12.95	13.43	13.46	13.93	14.49	12.95	13.43	13.46	13.93	14.49