

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P980323

Luminaire Tested: PRLX-243-930-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980323
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-243-930-23L-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

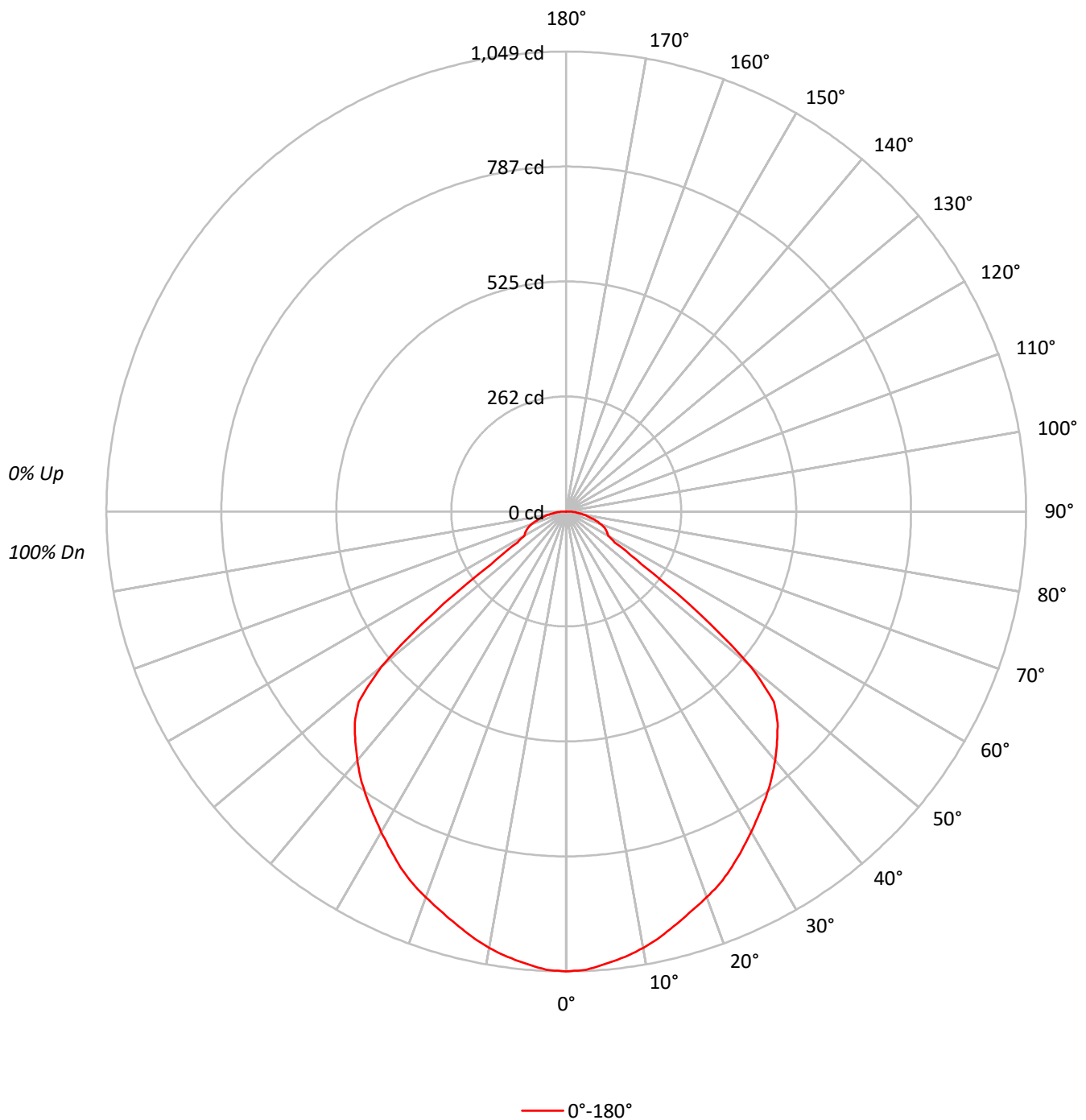
Lumens per Lamp: N/A
Luminaire Lumens: 2217.3 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5176
5°	5132
10°	5066
15°	4974
20°	4917
25°	4872
30°	4808
35°	4785
40°	4776
45°	4759
50°	4222
55°	1807
60°	1089
65°	1164
70°	1200
75°	1163
80°	1119
85°	1138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4759 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	4.4
10°-20°	275.0	12.4
20°-30°	412.1	18.6
30°-40°	497.5	22.4
40°-50°	517.5	23.3
50°-60°	232.8	10.5
60°-70°	97.7	4.4
70°-80°	64.6	2.9
80°-90°	22.0	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°	785.2	35.4
0°-40°	1282.7	57.8
0°-60°	2033.0	91.7
0°-90°	2217.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1049	
5°	1036	98
15°	974	275
25°	895	412
35°	794	497
45°	682	518
55°	210	233
65°	100	98
75°	61	65
85°	20	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1049.1
2.5°	1046.2
5°	1036.2
7.5°	1024.7
10°	1011.1
12.5°	993.9
15°	973.8
17.5°	954.5
20°	936.5
22.5°	917.9
25°	894.9
27.5°	869.1
30°	844.0
32.5°	818.9
35°	794.5
37.5°	769.4
40°	741.5
42.5°	712.1
45°	682.0
47.5°	642.5
50°	550.0
52.5°	384.4
55°	210.1
57.5°	131.2
60°	110.4
62.5°	105.4
65°	99.7
67.5°	92.5
70°	83.2
72.5°	72.4
75°	61.0
77.5°	50.2
80°	39.4
82.5°	29.4
85°	20.1
87.5°	11.5
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	9.45	10.90	9.82	11.22	11.53	9.45	10.90	9.82	11.22	11.53
	3H	11.55	12.83	11.92	13.16	13.52	11.55	12.83	11.92	13.16	13.52
	4H	12.38	13.58	12.78	13.93	14.31	12.38	13.58	12.78	13.93	14.31
	6H	13.02	14.13	13.43	14.50	14.89	13.02	14.13	13.43	14.50	14.89
	8H	13.25	14.31	13.68	14.70	15.10	13.25	14.31	13.68	14.70	15.10
	12H	13.44	14.44	13.87	14.82	15.25	13.44	14.44	13.87	14.82	15.25
4H	2H	10.12	11.32	10.52	11.67	12.05	10.12	11.32	10.52	11.67	12.05
	3H	12.46	13.44	12.87	13.84	14.25	12.46	13.44	12.87	13.84	14.25
	4H	13.42	14.30	13.86	14.72	15.16	13.42	14.30	13.86	14.72	15.16
	6H	14.20	14.97	14.66	15.41	15.88	14.20	14.97	14.66	15.41	15.88
	8H	14.49	15.20	14.96	15.65	16.12	14.49	15.20	14.96	15.65	16.12
	12H	14.73	15.36	15.21	15.84	16.32	14.73	15.36	15.21	15.84	16.32
8H	4H	13.78	14.49	14.24	14.94	15.41	13.78	14.49	14.24	14.94	15.41
	6H	14.70	15.29	15.20	15.78	16.26	14.70	15.29	15.20	15.78	16.26
	8H	15.07	15.61	15.59	16.12	16.61	15.07	15.61	15.59	16.12	16.61
	12H	15.41	15.89	15.92	16.38	16.95	15.41	15.89	15.92	16.38	16.95
12H	4H	13.81	14.45	14.30	14.93	15.40	13.81	14.45	14.30	14.93	15.40
	6H	14.77	15.30	15.28	15.82	16.31	14.77	15.30	15.28	15.82	16.31
	8H	15.21	15.69	15.72	16.19	16.75	15.21	15.69	15.72	16.19	16.75

END OF REPORT