

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: P979991

Luminaire Tested: PRLX-242-930-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-18L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

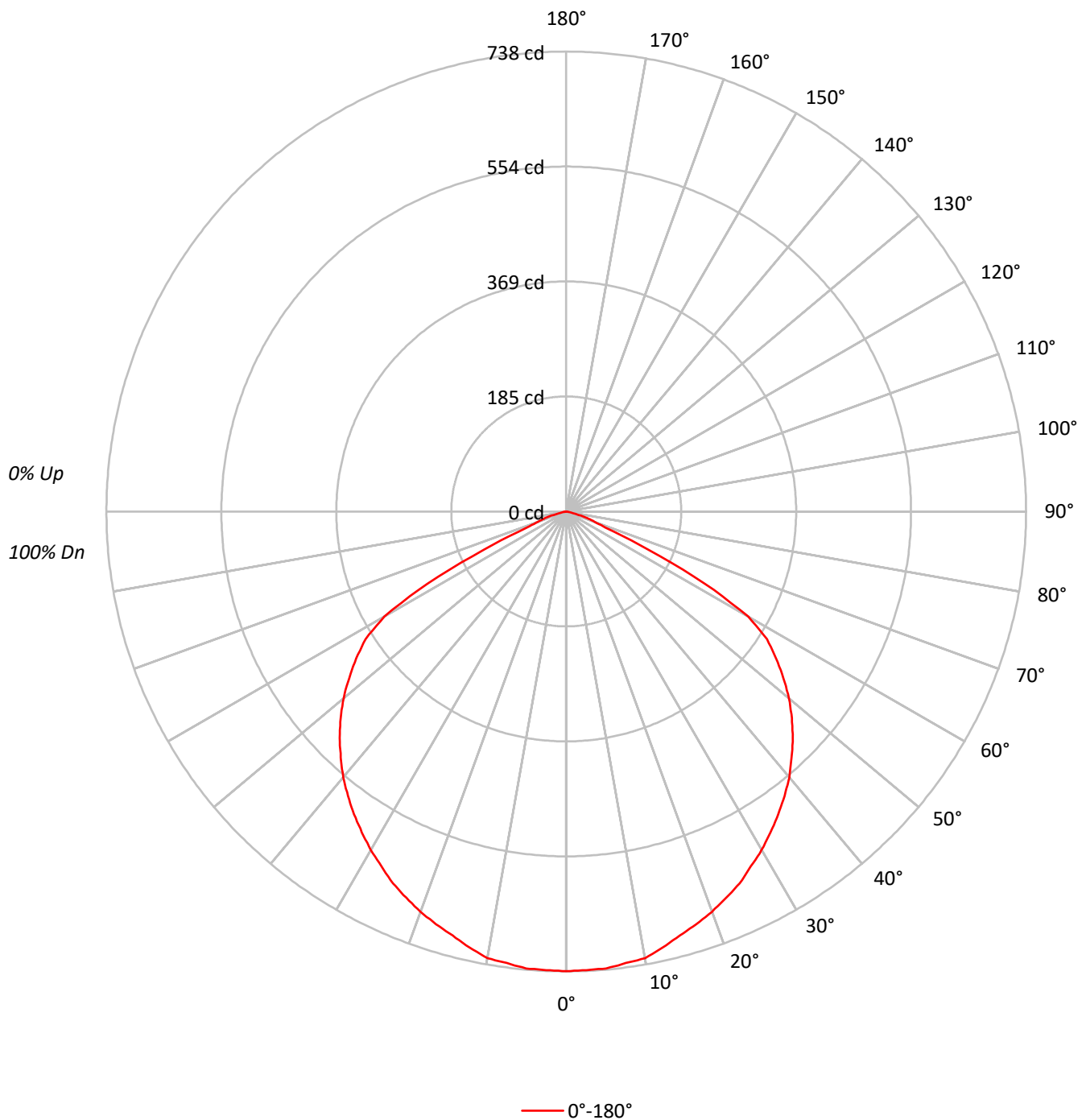
Lumens per Lamp: N/A
Luminaire Lumens: 1890.1 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	99	93	87	83	89	85	81		86	82	79		83
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		74
4	86	75	67	60	83	73	66	60	71	64	59		69	63	58		67
5	79	67	58	52	77	66	58	52	64	57	51		62	56	51		60
6	73	60	52	46	71	59	51	45	57	50	45		56	49	45		54
7	68	55	46	40	66	54	46	40	52	45	40		51	44	40		49
8	63	50	42	36	61	49	41	36	48	41	36		47	40	35		45
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3301
5°	3306
10°	3307
15°	3263
20°	3256
25°	3251
30°	3242
35°	3242
40°	3253
45°	3254
50°	3248
55°	3210
60°	3017
65°	1545
70°	622
75°	292
80°	57
85°	82

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.7
10°-20°	199.3	10.5
20°-30°	303.2	16.0
30°-40°	371.5	19.7
40°-50°	396.5	21.0
50°-60°	365.5	19.3
60°-70°	161.0	8.5
70°-80°	21.5	1.1
80°-90°	1.6	0.1
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°	572.4	30.3
0°-40°	944.0	49.9
0°-60°	1705.9	90.3
0°-90°	1890.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1890.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	738	
5°	736	70
15°	704	199
25°	658	303
35°	593	372
45°	514	396
55°	411	366
65°	146	161
75°	17	22
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	737.7
2.5°	736.6
5°	736.0
7.5°	731.1
10°	727.8
12.5°	716.9
15°	704.3
17.5°	694.5
20°	683.6
22.5°	671.0
25°	658.4
27.5°	642.0
30°	627.3
32.5°	610.3
35°	593.4
37.5°	575.4
40°	556.8
42.5°	535.5
45°	514.2
47.5°	491.2
50°	466.6
52.5°	439.3
55°	411.4
57.5°	381.9
60°	337.1
62.5°	250.8
65°	145.9
67.5°	67.8
70°	47.5
72.5°	35.5
75°	16.9
77.5°	4.9
80°	2.2
82.5°	2.2
85°	1.6
87.5°	1.1
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	16.99	18.54	17.35	18.85	19.16	16.99	18.54	17.35	18.85	19.16
	3H	17.03	18.41	17.41	18.74	19.10	17.03	18.41	17.41	18.74	19.10
	4H	17.00	18.28	17.40	18.63	19.01	17.00	18.28	17.40	18.63	19.01
	6H	16.94	18.12	17.35	18.49	18.88	16.94	18.12	17.35	18.49	18.88
	8H	16.91	18.03	17.33	18.42	18.82	16.91	18.03	17.33	18.42	18.82
	12H	16.87	17.95	17.30	18.33	18.76	16.87	17.95	17.30	18.33	18.76
4H	2H	17.08	18.37	17.48	18.72	19.09	17.08	18.37	17.48	18.72	19.09
	3H	17.17	18.22	17.58	18.62	19.02	17.17	18.22	17.58	18.62	19.02
	4H	17.14	18.07	17.57	18.49	18.92	17.14	18.07	17.57	18.49	18.92
	6H	17.08	17.88	17.54	18.33	18.79	17.08	17.88	17.54	18.33	18.79
	8H	17.03	17.79	17.50	18.23	18.70	17.03	17.79	17.50	18.23	18.70
	12H	17.00	17.67	17.49	18.15	18.62	17.00	17.67	17.49	18.15	18.62
8H	4H	17.05	17.80	17.51	18.24	18.71	17.05	17.80	17.51	18.24	18.71
	6H	16.97	17.59	17.47	18.08	18.56	16.97	17.59	17.47	18.08	18.56
	8H	16.92	17.47	17.43	17.98	18.47	16.92	17.47	17.43	17.98	18.47
	12H	16.88	17.37	17.39	17.87	18.43	16.88	17.37	17.39	17.87	18.43
12H	4H	17.01	17.68	17.50	18.16	18.63	17.01	17.68	17.50	18.16	18.63
	6H	16.91	17.47	17.43	17.98	18.47	16.91	17.47	17.43	17.98	18.47
	8H	16.88	17.37	17.39	17.87	18.43	16.88	17.37	17.39	17.87	18.43