

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: P980003

Luminaire Tested: PRLX-242-930-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-23L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

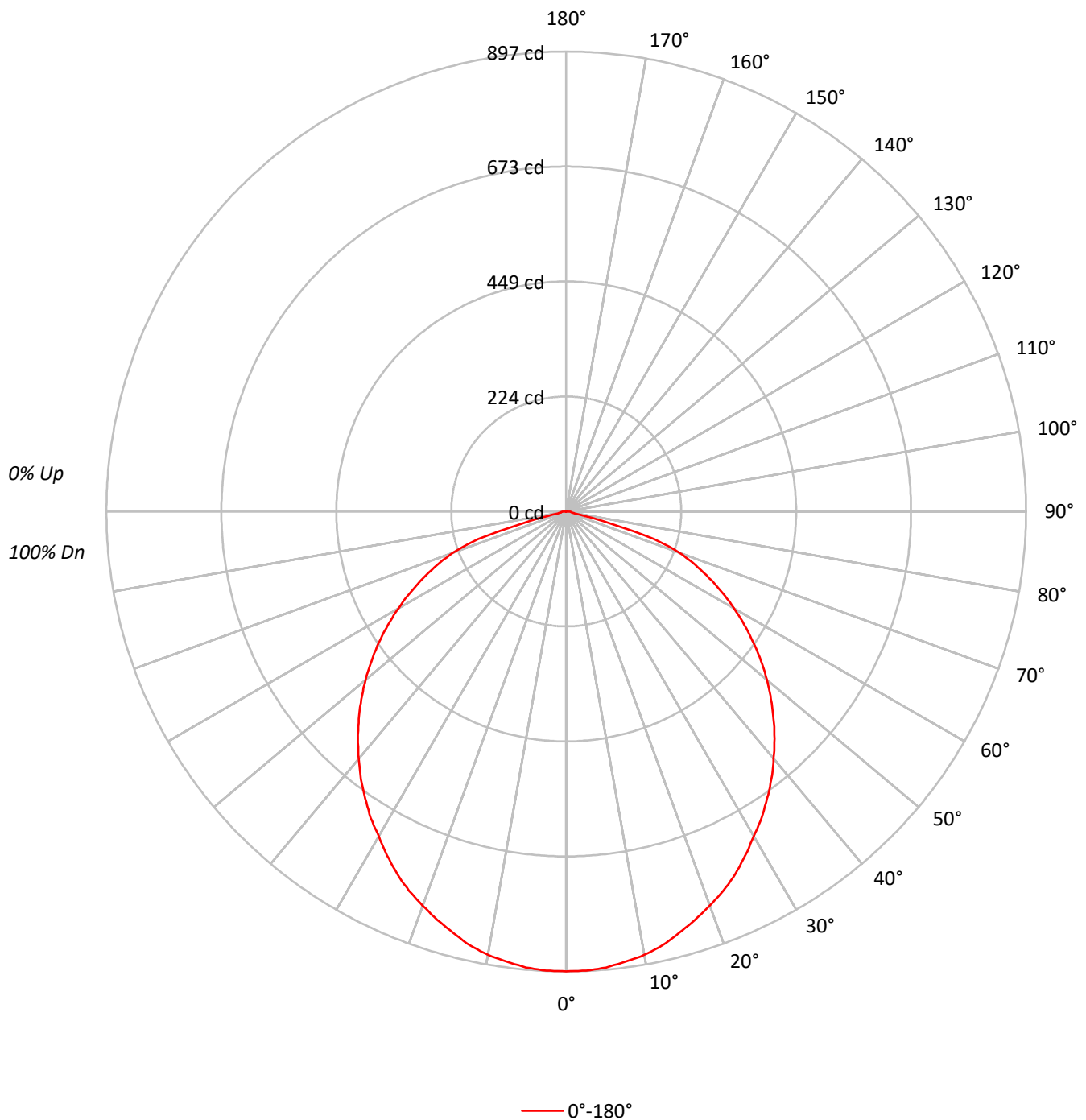
Lumens per Lamp: N/A
Luminaire Lumens: 2366.5 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4015
5°	4011
10°	3992
15°	3944
20°	3897
25°	3852
30°	3779
35°	3733
40°	3678
45°	3621
50°	3560
55°	3480
60°	3382
65°	3257
70°	3077
75°	1278
80°	278
85°	442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.6
10°-20°	240.2	10.1
20°-30°	359.0	15.2
30°-40°	427.6	18.1
40°-50°	441.4	18.7
50°-60°	398.5	16.8
60°-70°	304.4	12.9
70°-80°	102.8	4.3
80°-90°	7.9	0.3
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°	683.9	28.9
0°-40°	1111.5	47.0
0°-60°	1951.4	82.5
0°-90°	2366.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	897	
5°	893	85
15°	851	240
25°	780	359
35°	683	428
45°	572	441
55°	446	399
65°	308	304
75°	74	103
85°	9	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	897.1
2.5°	896.4
5°	892.8
7.5°	885.6
10°	878.4
12.5°	867.0
15°	851.2
17.5°	835.4
20°	818.2
22.5°	801.0
25°	780.2
27.5°	756.5
30°	731.4
32.5°	709.2
35°	683.4
37.5°	657.6
40°	629.6
42.5°	601.6
45°	572.2
47.5°	542.1
50°	511.3
52.5°	479.0
55°	446.0
57.5°	412.3
60°	377.9
62.5°	343.5
65°	307.6
67.5°	272.5
70°	235.2
72.5°	180.0
75°	73.9
77.5°	15.8
80°	10.8
82.5°	10.0
85°	8.6
87.5°	5.0
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	16.68	18.29	17.05	18.60	18.92	16.68	18.29	17.05	18.60	18.92
	3H	18.51	19.95	18.89	20.28	20.64	18.51	19.95	18.89	20.28	20.64
	4H	18.74	20.10	19.14	20.45	20.82	18.74	20.10	19.14	20.45	20.82
	6H	18.69	19.94	19.10	20.31	20.70	18.69	19.94	19.10	20.31	20.70
	8H	18.66	19.86	19.09	20.25	20.65	18.66	19.86	19.09	20.25	20.65
	12H	18.64	19.78	19.07	20.16	20.59	18.64	19.78	19.07	20.16	20.59
4H	2H	17.33	18.69	17.73	19.04	19.41	17.33	18.69	17.73	19.04	19.41
	3H	19.34	20.46	19.75	20.86	21.26	19.34	20.46	19.75	20.86	21.26
	4H	19.56	20.57	19.99	20.98	21.42	19.56	20.57	19.99	20.98	21.42
	6H	19.52	20.39	19.97	20.84	21.29	19.52	20.39	19.97	20.84	21.29
	8H	19.49	20.30	19.95	20.75	21.21	19.49	20.30	19.95	20.75	21.21
	12H	19.47	20.20	19.95	20.68	21.15	19.47	20.20	19.95	20.68	21.15
8H	4H	19.61	20.43	20.07	20.87	21.34	19.61	20.43	20.07	20.87	21.34
	6H	19.56	20.23	20.05	20.72	21.19	19.56	20.23	20.05	20.72	21.19
	8H	19.53	20.12	20.04	20.63	21.12	19.53	20.12	20.04	20.63	21.12
	12H	19.52	20.04	20.03	20.53	21.10	19.52	20.04	20.03	20.53	21.10
12H	4H	19.59	20.31	20.07	20.79	21.26	19.59	20.31	20.07	20.79	21.26
	6H	19.52	20.11	20.03	20.62	21.11	19.52	20.11	20.03	20.62	21.11
	8H	19.51	20.03	20.02	20.52	21.09	19.51	20.03	20.02	20.52	21.09

END OF REPORT