

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: P979363

Luminaire Tested: PRLX-240-930-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-23L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

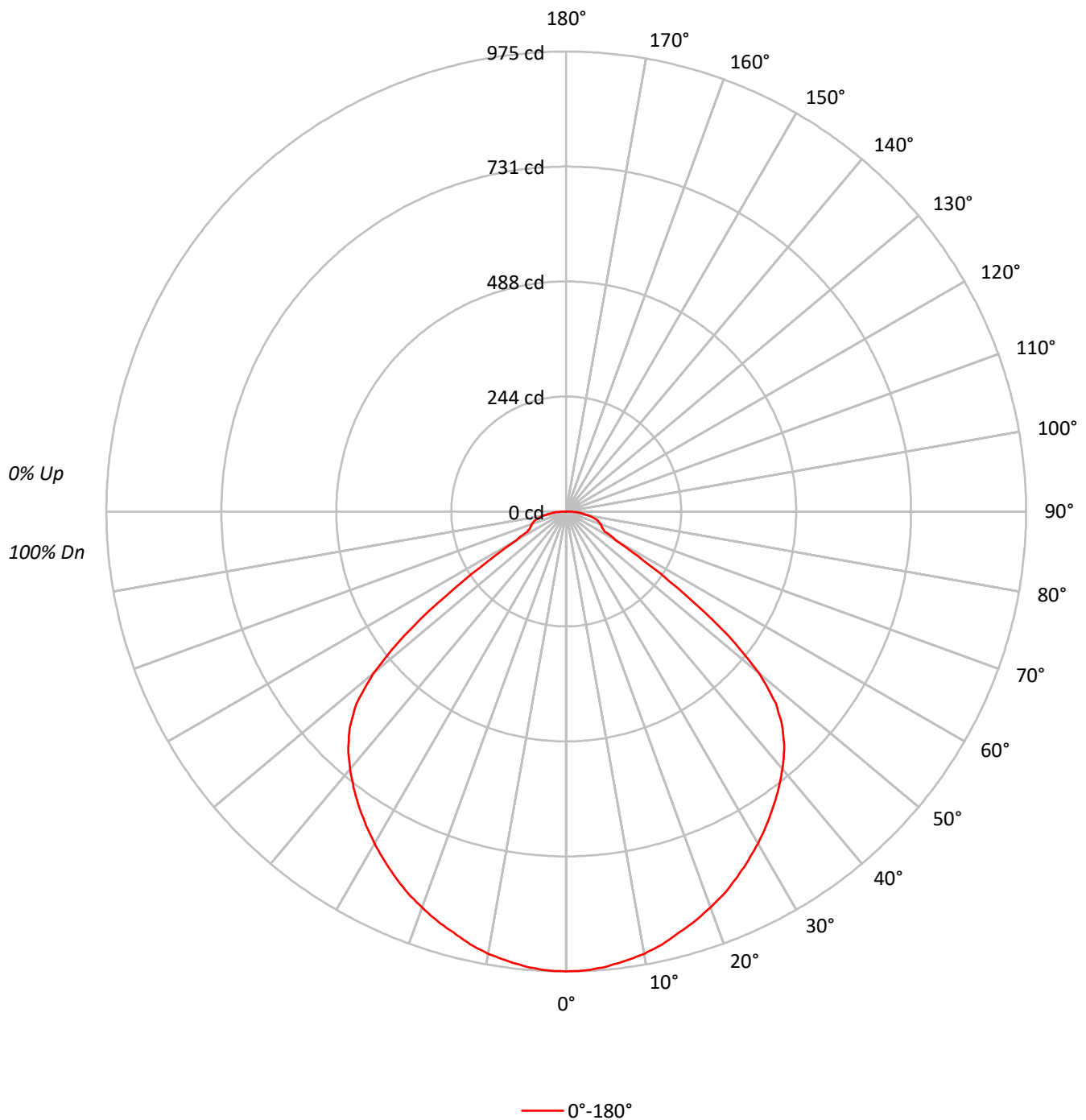
Lumens per Lamp: N/A
Luminaire Lumens: 2182.4 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9819
5°	9792
10°	9737
15°	9635
20°	9574
25°	9512
30°	9447
35°	9405
40°	9369
45°	9242
50°	8368
55°	5438
60°	2455
65°	2016
70°	2279
75°	2540
80°	2662
85°	2738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9242 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	4.2
10°-20°	261.2	12.0
20°-30°	394.7	18.1
30°-40°	478.9	21.9
40°-50°	493.8	22.6
50°-60°	280.0	12.8
60°-70°	88.5	4.1
70°-80°	67.6	3.1
80°-90°	25.8	1.2
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°	747.8	34.3
0°-40°	1226.7	56.2
0°-60°	2000.5	91.7
0°-90°	2182.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2182.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	975	
5°	969	92
15°	924	261
25°	856	395
35°	765	479
45°	649	494
55°	310	280
65°	85	89
75°	65	68
85°	24	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	975.2
2.5°	973.8
5°	968.8
7.5°	960.9
10°	952.3
12.5°	940.1
15°	924.3
17.5°	910.0
20°	893.5
22.5°	876.3
25°	856.2
27.5°	834.7
30°	812.5
32.5°	789.5
35°	765.1
37.5°	740.0
40°	712.8
42.5°	684.1
45°	649.0
47.5°	603.1
50°	534.2
52.5°	433.1
55°	309.8
57.5°	194.3
60°	121.9
62.5°	92.5
65°	84.6
67.5°	81.0
70°	77.4
72.5°	72.4
75°	65.3
77.5°	56.7
80°	45.9
82.5°	35.1
85°	23.7
87.5°	12.9
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	14.57	16.04	14.94	16.36	16.67	14.57	16.04	14.94	16.36	16.67
	3H	15.46	16.77	15.84	17.10	17.46	15.46	16.77	15.84	17.10	17.46
	4H	16.07	17.29	16.47	17.64	18.02	16.07	17.29	16.47	17.64	18.02
	6H	16.67	17.80	17.09	18.16	18.56	16.67	17.80	17.09	18.16	18.56
	8H	16.91	17.98	17.34	18.37	18.77	16.91	17.98	17.34	18.37	18.77
	12H	17.09	18.12	17.53	18.50	18.93	17.09	18.12	17.53	18.50	18.93
4H	2H	14.70	15.92	15.10	16.27	16.65	14.70	15.92	15.10	16.27	16.65
	3H	15.94	16.94	16.35	17.34	17.74	15.94	16.94	16.35	17.34	17.74
	4H	16.76	17.66	17.20	18.07	18.51	16.76	17.66	17.20	18.07	18.51
	6H	17.57	18.35	18.03	18.79	19.25	17.57	18.35	18.03	18.79	19.25
	8H	17.89	18.62	18.35	19.06	19.53	17.89	18.62	18.35	19.06	19.53
	12H	18.15	18.80	18.63	19.28	19.75	18.15	18.80	18.63	19.28	19.75
8H	4H	17.08	17.81	17.54	18.25	18.72	17.08	17.81	17.54	18.25	18.72
	6H	18.05	18.65	18.55	19.15	19.63	18.05	18.65	18.55	19.15	19.63
	8H	18.47	19.02	18.98	19.53	20.02	18.47	19.02	18.98	19.53	20.02
	12H	18.84	19.33	19.35	19.82	20.39	18.84	19.33	19.35	19.82	20.39
12H	4H	17.12	17.77	17.60	18.25	18.72	17.12	17.77	17.60	18.25	18.72
	6H	18.13	18.68	18.64	19.19	19.68	18.13	18.68	18.64	19.19	19.68
	8H	18.62	19.11	19.13	19.61	20.17	18.62	19.11	19.13	19.61	20.17