

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: P979361

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-23L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

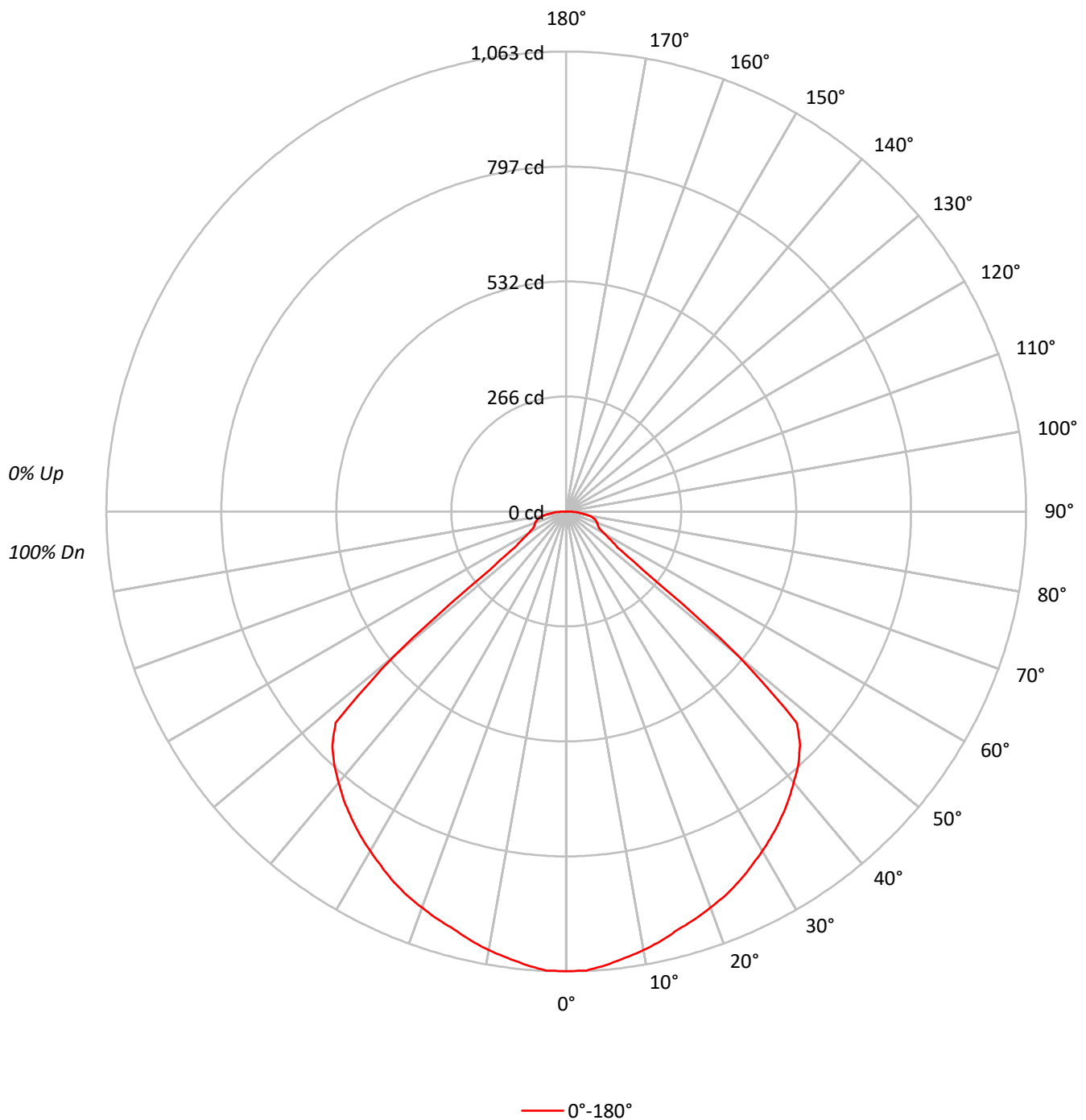
Lumens per Lamp: N/A
Luminaire Lumens: 2287.1 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	101	99	100	98	96		97	95	93		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		68
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		60
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		53
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		35
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10700
5°	10640
10°	10528
15°	10427
20°	10442
25°	10492
30°	10538
35°	10639
40°	10755
45°	10885
50°	8133
55°	2530
60°	2022
65°	1947
70°	2237
75°	2649
80°	3033
85°	2981

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10885 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	4.4
10°-20°	283.1	12.4
20°-30°	435.4	19.0
30°-40°	542.0	23.7
40°-50°	568.6	24.9
50°-60°	175.8	7.7
60°-70°	83.3	3.6
70°-80°	70.4	3.1
80°-90°	28.8	1.3
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°	818.3	35.8
0°-40°	1360.3	59.5
0°-60°	2104.7	92.0
0°-90°	2287.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1063	
5°	1053	100
15°	1000	283
25°	944	435
35°	866	542
45°	764	569
55°	144	176
65°	82	83
75°	68	70
85°	26	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1062.7
2.5°	1062.0
5°	1052.7
7.5°	1040.5
10°	1029.7
12.5°	1016.1
15°	1000.3
17.5°	988.2
20°	974.5
22.5°	960.9
25°	944.4
27.5°	925.1
30°	906.4
32.5°	887.0
35°	865.5
37.5°	843.3
40°	818.2
42.5°	793.8
45°	764.4
47.5°	722.8
50°	519.2
52.5°	223.0
55°	144.1
57.5°	119.8
60°	100.4
62.5°	87.5
65°	81.7
67.5°	78.9
70°	76.0
72.5°	72.4
75°	68.1
77.5°	61.7
80°	52.3
82.5°	39.4
85°	25.8
87.5°	14.3
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	11.22	12.65	11.59	12.96	13.27	11.22	12.65	11.59	12.96	13.27
	3H	13.18	14.45	13.56	14.78	15.14	13.18	14.45	13.56	14.78	15.14
	4H	14.34	15.52	14.74	15.87	16.25	14.34	15.52	14.74	15.87	16.25
	6H	15.47	16.56	15.89	16.93	17.32	15.47	16.56	15.89	16.93	17.32
	8H	15.90	16.93	16.33	17.32	17.72	15.90	16.93	16.33	17.32	17.72
	12H	16.20	17.19	16.63	17.57	18.00	16.20	17.19	16.63	17.57	18.00
4H	2H	11.73	12.91	12.13	13.26	13.64	11.73	12.91	12.13	13.26	13.64
	3H	14.09	15.06	14.51	15.47	15.87	14.09	15.06	14.51	15.47	15.87
	4H	15.47	16.34	15.91	16.76	17.20	15.47	16.34	15.91	16.76	17.20
	6H	16.80	17.55	17.26	18.00	18.46	16.80	17.55	17.26	18.00	18.46
	8H	17.29	18.00	17.76	18.44	18.91	17.29	18.00	17.76	18.44	18.91
	12H	17.66	18.29	18.15	18.77	19.24	17.66	18.29	18.15	18.77	19.24
8H	4H	16.00	16.71	16.47	17.16	17.63	16.00	16.71	16.47	17.16	17.63
	6H	17.51	18.10	18.01	18.59	19.07	17.51	18.10	18.01	18.59	19.07
	8H	18.11	18.64	18.63	19.16	19.65	18.11	18.64	18.63	19.16	19.65
	12H	18.59	19.07	19.10	19.56	20.13	18.59	19.07	19.10	19.56	20.13
12H	4H	16.10	16.73	16.58	17.21	17.68	16.10	16.73	16.58	17.21	17.68
	6H	17.65	18.18	18.16	18.69	19.18	17.65	18.18	18.16	18.69	19.18
	8H	18.33	18.80	18.84	19.30	19.86	18.33	18.80	18.84	19.30	19.86

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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