

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: P979711

Luminaire Tested: PRLX-241-930-48L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-930-48L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

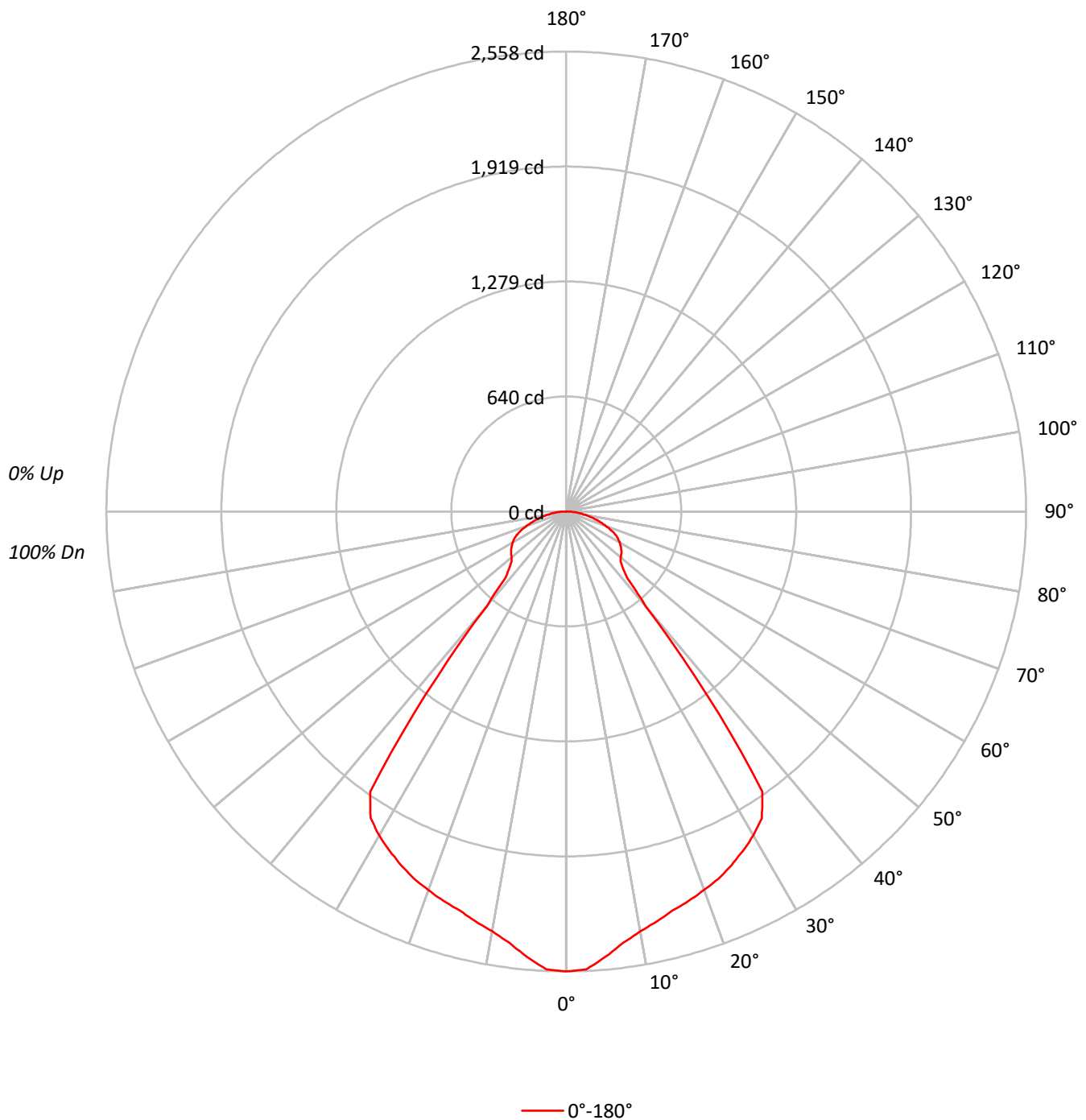
Lumens per Lamp: N/A
Luminaire Lumens: 4127.2 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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	98	100	98	95		97	94	92		93
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	66	87	78	71	65	75	69	65		73	68	64		71
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		65
6	78	66	59	53	76	65	58	53	64	57	52		62	56	52		61
7	73	61	54	48	71	60	53	48	59	53	48		58	52	48		56
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		49
10	61	49	42	38	60	49	42	37	48	42	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19719
5°	19257
10°	18564
15°	18325
20°	18387
25°	18473
30°	18529
35°	17891
40°	6909
45°	4855
50°	4755
55°	5031
60°	5292
65°	5450
70°	5268
75°	4980
80°	4661
85°	4316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 5450 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	5.7
10°-20°	650.7	15.8
20°-30°	1001.3	24.3
30°-40°	1018.5	24.7
40°-50°	364.9	8.8
50°-60°	333.7	8.1
60°-70°	291.5	7.1
70°-80°	177.3	4.3
80°-90°	55.7	1.4
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°	1885.6	45.7
0°-40°	2904.1	70.4
0°-60°	3602.7	87.3
0°-90°	4127.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2558	
5°	2488	234
15°	2296	651
25°	2172	1001
35°	1901	1019
45°	445	365
55°	374	334
65°	299	292
75°	167	177
85°	49	56
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2557.9
2.5°	2549.0
5°	2488.4
7.5°	2420.3
10°	2371.5
12.5°	2334.5
15°	2296.1
17.5°	2270.9
20°	2241.3
22.5°	2211.7
25°	2171.8
27.5°	2127.4
30°	2081.5
32.5°	2023.8
35°	1901.1
37.5°	1287.1
40°	686.5
42.5°	500.0
45°	445.3
47.5°	411.3
50°	396.5
52.5°	386.1
55°	374.3
57.5°	359.5
60°	343.2
62.5°	324.0
65°	298.8
67.5°	266.3
70°	233.7
72.5°	199.7
75°	167.2
77.5°	136.1
80°	105.0
82.5°	76.9
85°	48.8
87.5°	26.6
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	16.07	17.39	16.44	17.71	18.02	16.07	17.39	16.44	17.71	18.02
	3H	18.23	19.41	18.61	19.74	20.11	18.23	19.41	18.61	19.74	20.11
	4H	19.01	20.12	19.41	20.47	20.85	19.01	20.12	19.41	20.47	20.85
	6H	19.60	20.62	20.01	20.99	21.39	19.60	20.62	20.01	20.99	21.39
	8H	19.80	20.77	20.23	21.17	21.57	19.80	20.77	20.23	21.17	21.57
	12H	19.94	20.87	20.37	21.25	21.68	19.94	20.87	20.37	21.25	21.68
4H	2H	16.82	17.93	17.22	18.28	18.66	16.82	17.93	17.22	18.28	18.66
	3H	19.13	20.06	19.55	20.46	20.87	19.13	20.06	19.55	20.46	20.87
	4H	20.03	20.87	20.47	21.29	21.73	20.03	20.87	20.47	21.29	21.73
	6H	20.75	21.47	21.21	21.92	22.38	20.75	21.47	21.21	21.92	22.38
	8H	21.00	21.67	21.46	22.12	22.59	21.00	21.67	21.46	22.12	22.59
	12H	21.18	21.78	21.67	22.26	22.74	21.18	21.78	21.67	22.26	22.74
8H	4H	20.35	21.03	20.82	21.48	21.95	20.35	21.03	20.82	21.48	21.95
	6H	21.21	21.76	21.71	22.26	22.74	21.21	21.76	21.71	22.26	22.74
	8H	21.55	22.04	22.07	22.56	23.05	21.55	22.04	22.07	22.56	23.05
	12H	21.83	22.26	22.34	22.76	23.33	21.83	22.26	22.34	22.76	23.33
12H	4H	20.38	20.98	20.87	21.46	21.94	20.38	20.98	20.87	21.46	21.94
	6H	21.27	21.77	21.79	22.28	22.77	21.27	21.77	21.79	22.28	22.77
	8H	21.68	22.11	22.19	22.60	23.17	21.68	22.11	22.19	22.60	23.17