

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: P979713

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-930-48L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

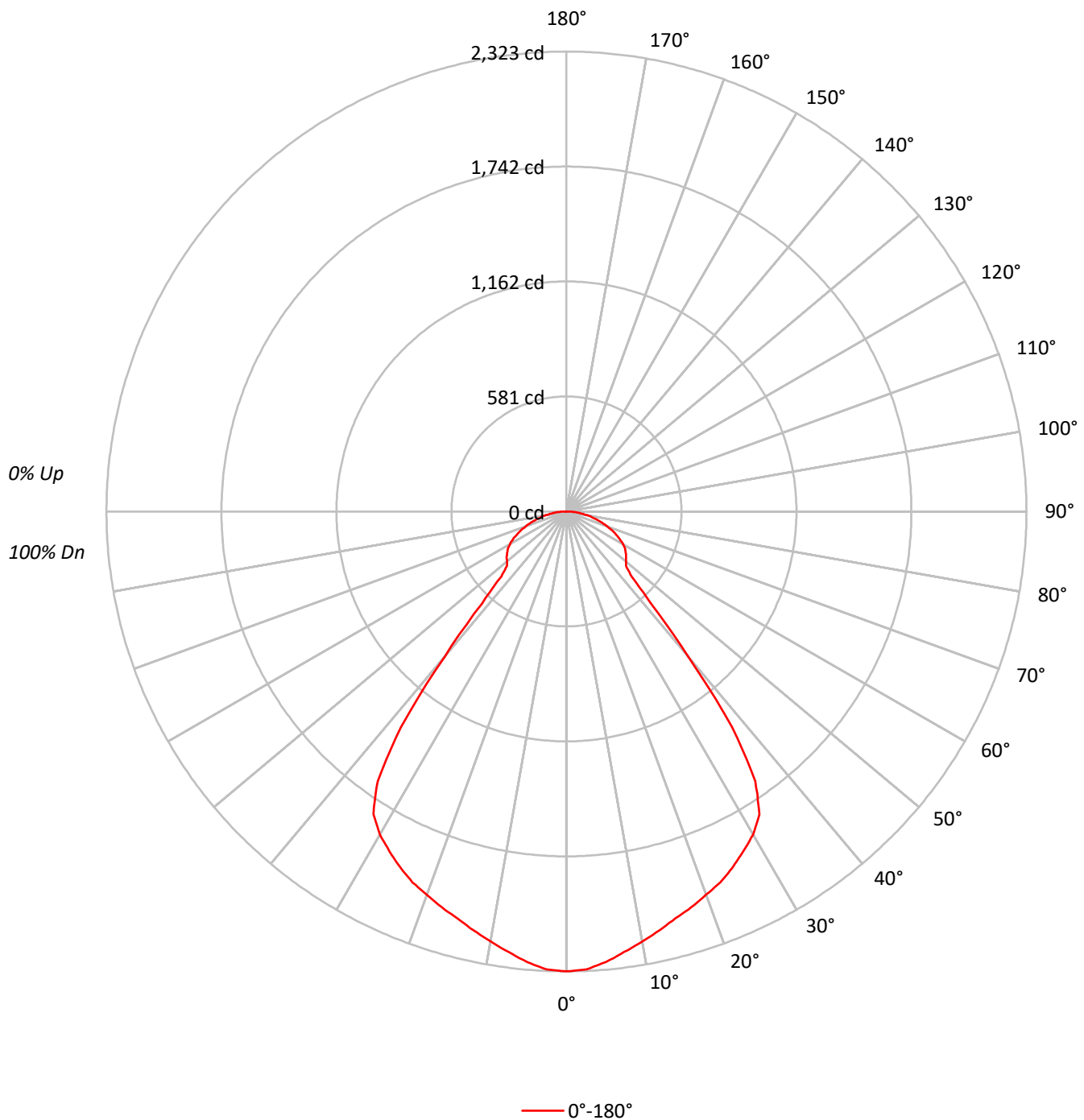
Lumens per Lamp: N/A
Luminaire Lumens: 3939.5 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	104	101	98	100	98	95		96	94	92		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	81		84
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65
6	77	66	58	52	76	65	58	52	63	57	52		62	56	51		60
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		56
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	39		49
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17906
5°	17676
10°	17267
15°	16979
20°	16906
25°	16875
30°	16778
35°	15650
40°	9633
45°	5064
50°	4701
55°	4911
60°	5086
65°	5047
70°	4902
75°	4670
80°	4400
85°	4060

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 62.5°
Luminance: 5089 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	5.5
10°-20°	602.0	15.3
20°-30°	914.0	23.2
30°-40°	974.0	24.7
40°-50°	416.1	10.6
50°-60°	326.3	8.3
60°-70°	272.8	6.9
70°-80°	166.2	4.2
80°-90°	52.6	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°	1731.5	44.0
0°-40°	2705.5	68.7
0°-60°	3447.9	87.5
0°-90°	3939.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3939.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2323	
5°	2284	215
15°	2127	602
25°	1984	914
35°	1663	974
45°	464	416
55°	365	326
65°	277	273
75°	157	166
85°	46	53
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2322.7
2.5°	2315.3
5°	2284.2
7.5°	2244.3
10°	2205.8
12.5°	2167.3
15°	2127.4
17.5°	2096.3
20°	2060.8
22.5°	2028.3
25°	1983.9
27.5°	1935.1
30°	1884.8
32.5°	1813.8
35°	1662.9
37.5°	1374.4
40°	957.2
42.5°	631.7
45°	464.5
47.5°	406.8
50°	392.0
52.5°	380.2
55°	365.4
57.5°	350.6
60°	329.9
62.5°	304.8
65°	276.7
67.5°	247.1
70°	217.5
72.5°	186.4
75°	156.8
77.5°	128.7
80°	99.1
82.5°	72.5
85°	45.9
87.5°	25.2
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	16.03	17.37	16.39	17.68	18.00	16.03	17.37	16.39	17.68	18.00
	3H	18.03	19.23	18.41	19.56	19.93	18.03	19.23	18.41	19.56	19.93
	4H	18.79	19.92	19.19	20.27	20.65	18.79	19.92	19.19	20.27	20.65
	6H	19.37	20.41	19.79	20.78	21.18	19.37	20.41	19.79	20.78	21.18
	8H	19.58	20.56	20.00	20.95	21.36	19.58	20.56	20.00	20.95	21.36
	12H	19.71	20.66	20.15	21.04	21.47	19.71	20.66	20.15	21.04	21.47
4H	2H	16.70	17.82	17.10	18.17	18.56	16.70	17.82	17.10	18.17	18.56
	3H	18.90	19.84	19.31	20.24	20.64	18.90	19.84	19.31	20.24	20.64
	4H	19.78	20.63	20.22	21.04	21.49	19.78	20.63	20.22	21.04	21.49
	6H	20.50	21.23	20.96	21.68	22.14	20.50	21.23	20.96	21.68	22.14
	8H	20.75	21.43	21.22	21.88	22.35	20.75	21.43	21.22	21.88	22.35
	12H	20.93	21.54	21.42	22.02	22.50	20.93	21.54	21.42	22.02	22.50
8H	4H	20.10	20.79	20.57	21.23	21.70	20.10	20.79	20.57	21.23	21.70
	6H	20.96	21.52	21.46	22.01	22.49	20.96	21.52	21.46	22.01	22.49
	8H	21.30	21.80	21.82	22.31	22.80	21.30	21.80	21.82	22.31	22.80
	12H	21.58	22.02	22.09	22.51	23.08	21.58	22.02	22.09	22.51	23.08
12H	4H	20.13	20.74	20.62	21.22	21.69	20.13	20.74	20.62	21.22	21.69
	6H	21.02	21.52	21.54	22.04	22.53	21.02	21.52	21.54	22.04	22.53
	8H	21.43	21.87	21.94	22.36	22.93	21.43	21.87	21.94	22.36	22.93