

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: P979793

Luminaire Tested: PRLX-241-935-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979793
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-241-935-48L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

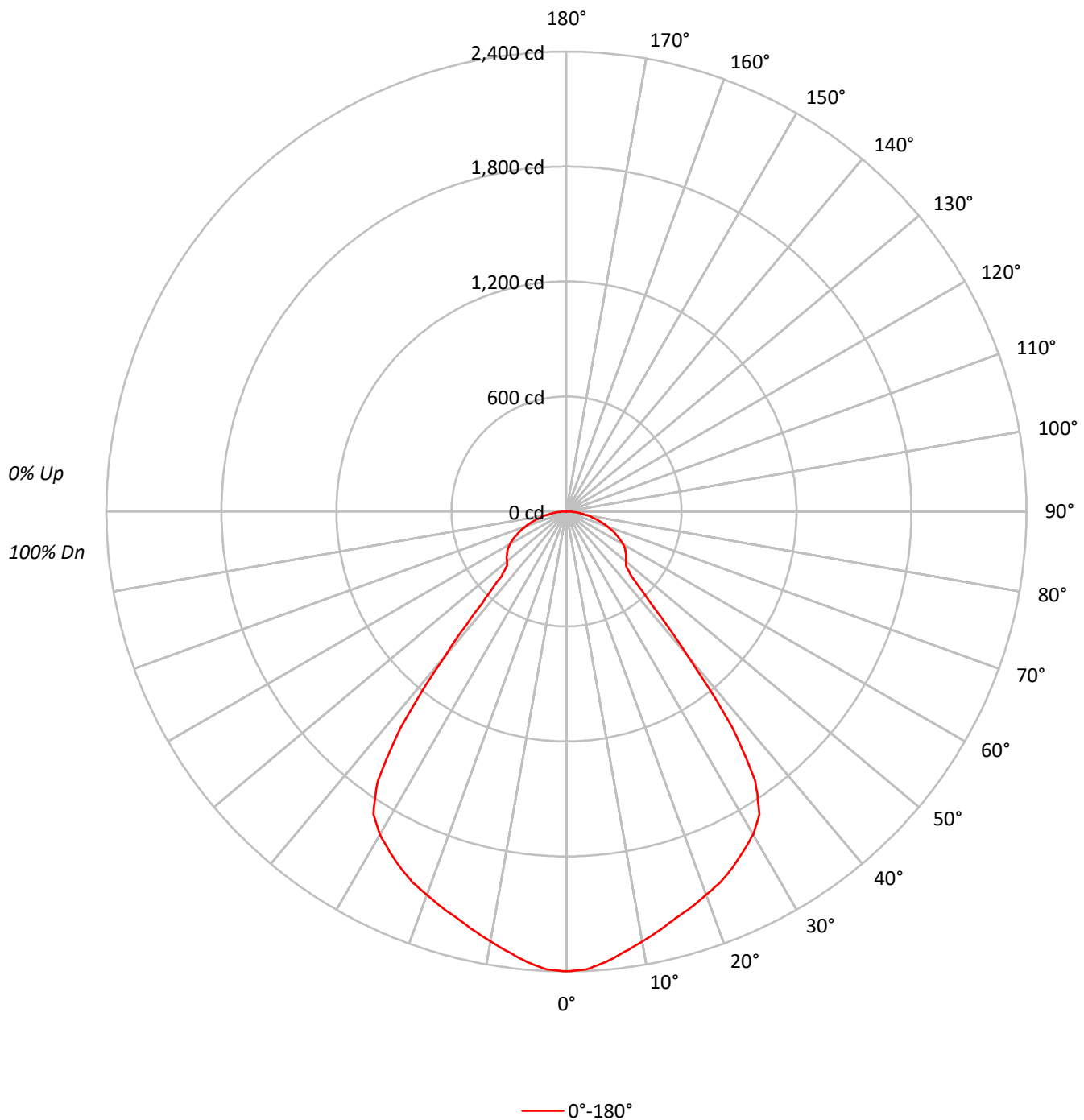
Lumens per Lamp: N/A
Luminaire Lumens: 4069.9 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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°	18499
5°	18262
10°	17839
15°	17542
20°	17467
25°	17434
30°	17333
35°	16168
40°	9952
45°	5232
50°	4857
55°	5074
60°	5255
65°	5213
70°	5065
75°	4825
80°	4546
85°	4193

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 5257 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	5.5
10°-20°	622.0	15.3
20°-30°	944.3	23.2
30°-40°	1006.2	24.7
40°-50°	429.9	10.6
50°-60°	337.1	8.3
60°-70°	281.8	6.9
70°-80°	171.7	4.2
80°-90°	54.3	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°	1788.9	44.0
0°-40°	2795.1	68.7
0°-60°	3562.1	87.5
0°-90°	4069.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2400	
5°	2360	223
15°	2198	622
25°	2050	944
35°	1718	1006
45°	480	430
55°	378	337
65°	286	282
75°	162	172
85°	47	54
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2399.6
2.5°	2392.0
5°	2359.9
7.5°	2318.6
10°	2278.9
12.5°	2239.2
15°	2197.9
17.5°	2165.8
20°	2129.1
22.5°	2095.5
25°	2049.6
27.5°	1999.2
30°	1947.2
32.5°	1873.9
35°	1718.0
37.5°	1419.9
40°	988.9
42.5°	652.6
45°	479.9
47.5°	420.3
50°	405.0
52.5°	392.8
55°	377.5
57.5°	362.2
60°	340.8
62.5°	314.9
65°	285.8
67.5°	255.2
70°	224.7
72.5°	192.6
75°	162.0
77.5°	133.0
80°	102.4
82.5°	74.9
85°	47.4
87.5°	26.0
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	16.14	17.48	16.51	17.79	18.11	16.14	17.48	16.51	17.79	18.11
	3H	18.14	19.35	18.52	19.68	20.04	18.14	19.35	18.52	19.68	20.04
	4H	18.90	20.03	19.30	20.38	20.76	18.90	20.03	19.30	20.38	20.76
	6H	19.49	20.53	19.90	20.90	21.29	19.49	20.53	19.90	20.90	21.29
	8H	19.69	20.68	20.12	21.07	21.47	19.69	20.68	20.12	21.07	21.47
	12H	19.83	20.77	20.26	21.15	21.58	19.83	20.77	20.26	21.15	21.58
4H	2H	16.81	17.94	17.21	18.29	18.67	16.81	17.94	17.21	18.29	18.67
	3H	19.01	19.95	19.42	20.35	20.75	19.01	19.95	19.42	20.35	20.75
	4H	19.89	20.74	20.33	21.16	21.60	19.89	20.74	20.33	21.16	21.60
	6H	20.61	21.34	21.07	21.79	22.25	20.61	21.34	21.07	21.79	22.25
	8H	20.86	21.55	21.33	21.99	22.46	20.86	21.55	21.33	21.99	22.46
	12H	21.05	21.66	21.53	22.14	22.61	21.05	21.66	21.53	22.14	22.61
8H	4H	20.21	20.90	20.68	21.35	21.82	20.21	20.90	20.68	21.35	21.82
	6H	21.07	21.63	21.57	22.13	22.61	21.07	21.63	21.57	22.13	22.61
	8H	21.41	21.91	21.93	22.43	22.92	21.41	21.91	21.93	22.43	22.92
	12H	21.69	22.13	22.20	22.62	23.19	21.69	22.13	22.20	22.62	23.19
12H	4H	20.24	20.85	20.73	21.33	21.81	20.24	20.85	20.73	21.33	21.81
	6H	21.14	21.64	21.66	22.15	22.64	21.14	21.64	21.66	22.15	22.64
	8H	21.54	21.98	22.05	22.47	23.04	21.54	21.98	22.05	22.47	23.04