

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: P979791

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979791
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-241-935-48L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

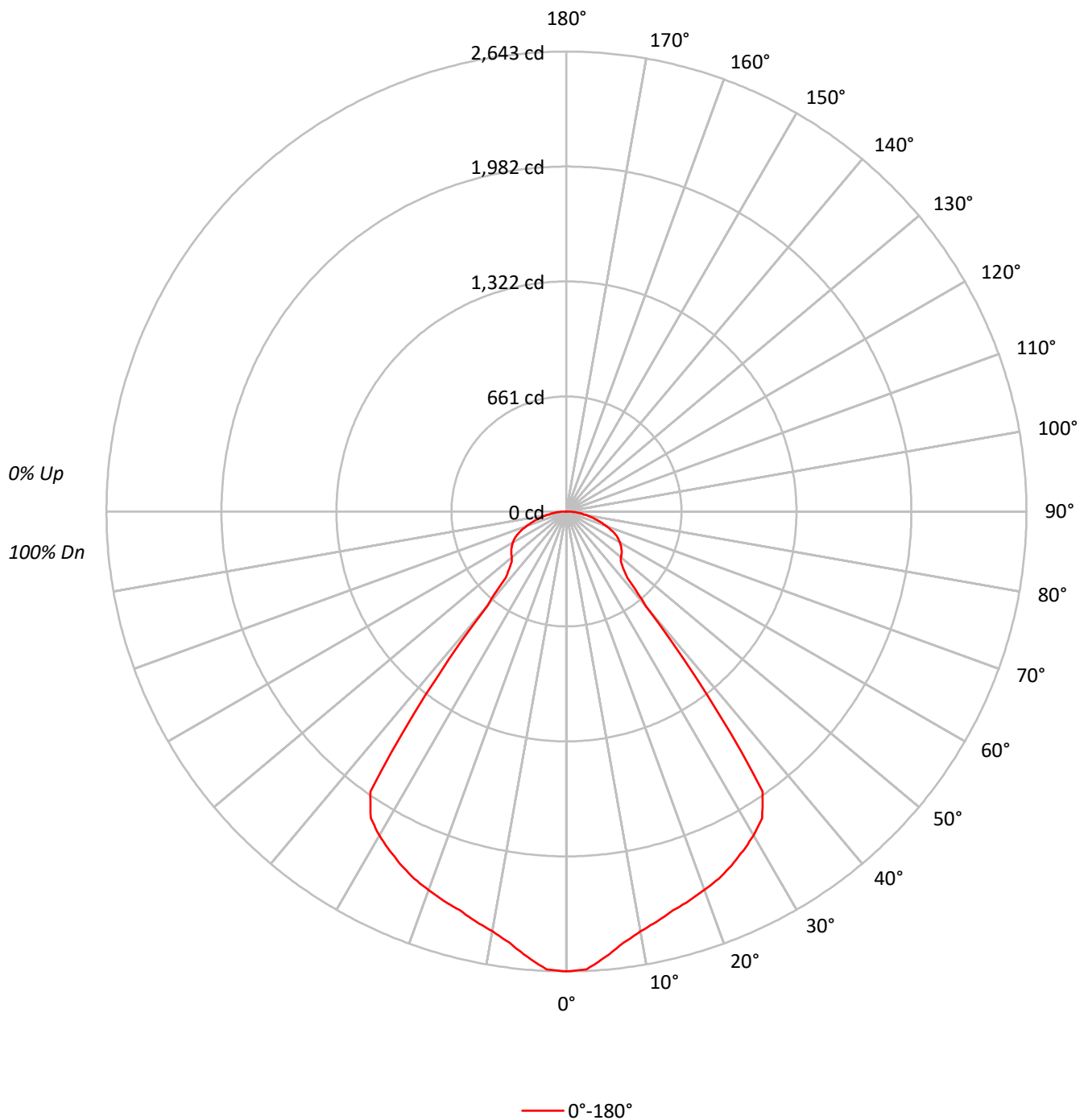
Lumens per Lamp: N/A
Luminaire Lumens: 4264.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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		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	98	100	98	95		97	94	92		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		68
4	89	79	71	66	87	78	71	65	75	69	65		73	68	64		61
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		55
6	78	66	59	53	76	65	58	53	64	57	52		62	56	52		50
7	73	61	54	48	71	60	53	48	59	53	48		58	52	48		45
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		42
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		38
10	61	49	42	38	60	49	42	37	48	42	37		47	41	37		36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20373
5°	19894
10°	19179
15°	18932
20°	18997
25°	19085
30°	19143
35°	18483
40°	7137
45°	5016
50°	4912
55°	5197
60°	5467
65°	5631
70°	5443
75°	5144
80°	4817
85°	4458

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 5631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	5.7
10°-20°	672.2	15.8
20°-30°	1034.5	24.3
30°-40°	1052.2	24.7
40°-50°	377.0	8.8
50°-60°	344.7	8.1
60°-70°	301.2	7.1
70°-80°	183.2	4.3
80°-90°	57.6	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°	1948.1	45.7
0°-40°	3000.3	70.4
0°-60°	3722.0	87.3
0°-90°	4264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4264.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2643	
5°	2571	241
15°	2372	672
25°	2244	1034
35°	1964	1052
45°	460	377
55°	387	345
65°	309	301
75°	173	183
85°	50	58
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2642.7
2.5°	2633.5
5°	2570.8
7.5°	2500.5
10°	2450.1
12.5°	2411.9
15°	2372.1
17.5°	2346.2
20°	2315.6
22.5°	2285.0
25°	2243.7
27.5°	2197.9
30°	2150.5
32.5°	2090.9
35°	1964.0
37.5°	1329.7
40°	709.2
42.5°	516.6
45°	460.1
47.5°	424.9
50°	409.6
52.5°	398.9
55°	386.7
57.5°	371.4
60°	354.6
62.5°	334.7
65°	308.7
67.5°	275.1
70°	241.5
72.5°	206.3
75°	172.7
77.5°	140.6
80°	108.5
82.5°	79.5
85°	50.4
87.5°	27.5
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	16.18	17.51	16.55	17.82	18.13	16.18	17.51	16.55	17.82	18.13
	3H	18.34	19.53	18.72	19.86	20.22	18.34	19.53	18.72	19.86	20.22
	4H	19.12	20.23	19.52	20.58	20.97	19.12	20.23	19.52	20.58	20.97
	6H	19.71	20.74	20.13	21.11	21.50	19.71	20.74	20.13	21.11	21.50
	8H	19.91	20.89	20.34	21.28	21.68	19.91	20.89	20.34	21.28	21.68
	12H	20.05	20.99	20.49	21.37	21.80	20.05	20.99	20.49	21.37	21.80
4H	2H	16.93	18.04	17.33	18.39	18.78	16.93	18.04	17.33	18.39	18.78
	3H	19.25	20.18	19.66	20.58	20.98	19.25	20.18	19.66	20.58	20.98
	4H	20.14	20.98	20.58	21.40	21.84	20.14	20.98	20.58	21.40	21.84
	6H	20.86	21.58	21.32	22.03	22.49	20.86	21.58	21.32	22.03	22.49
	8H	21.11	21.79	21.58	22.23	22.70	21.11	21.79	21.58	22.23	22.70
	12H	21.30	21.90	21.78	22.38	22.85	21.30	21.90	21.78	22.38	22.85
8H	4H	20.47	21.14	20.93	21.59	22.06	20.47	21.14	20.93	21.59	22.06
	6H	21.32	21.88	21.82	22.37	22.85	21.32	21.88	21.82	22.37	22.85
	8H	21.66	22.16	22.18	22.67	23.16	21.66	22.16	22.18	22.67	23.16
	12H	21.94	22.37	22.46	22.87	23.44	21.94	22.37	22.46	22.87	23.44
12H	4H	20.50	21.10	20.98	21.58	22.05	20.50	21.10	20.98	21.58	22.05
	6H	21.39	21.88	21.91	22.39	22.89	21.39	21.88	21.91	22.39	22.89
	8H	21.79	22.22	22.31	22.72	23.29	21.79	22.22	22.31	22.72	23.29