

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: P980381

Luminaire Tested: PRLX-243-935-12L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-935-12L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

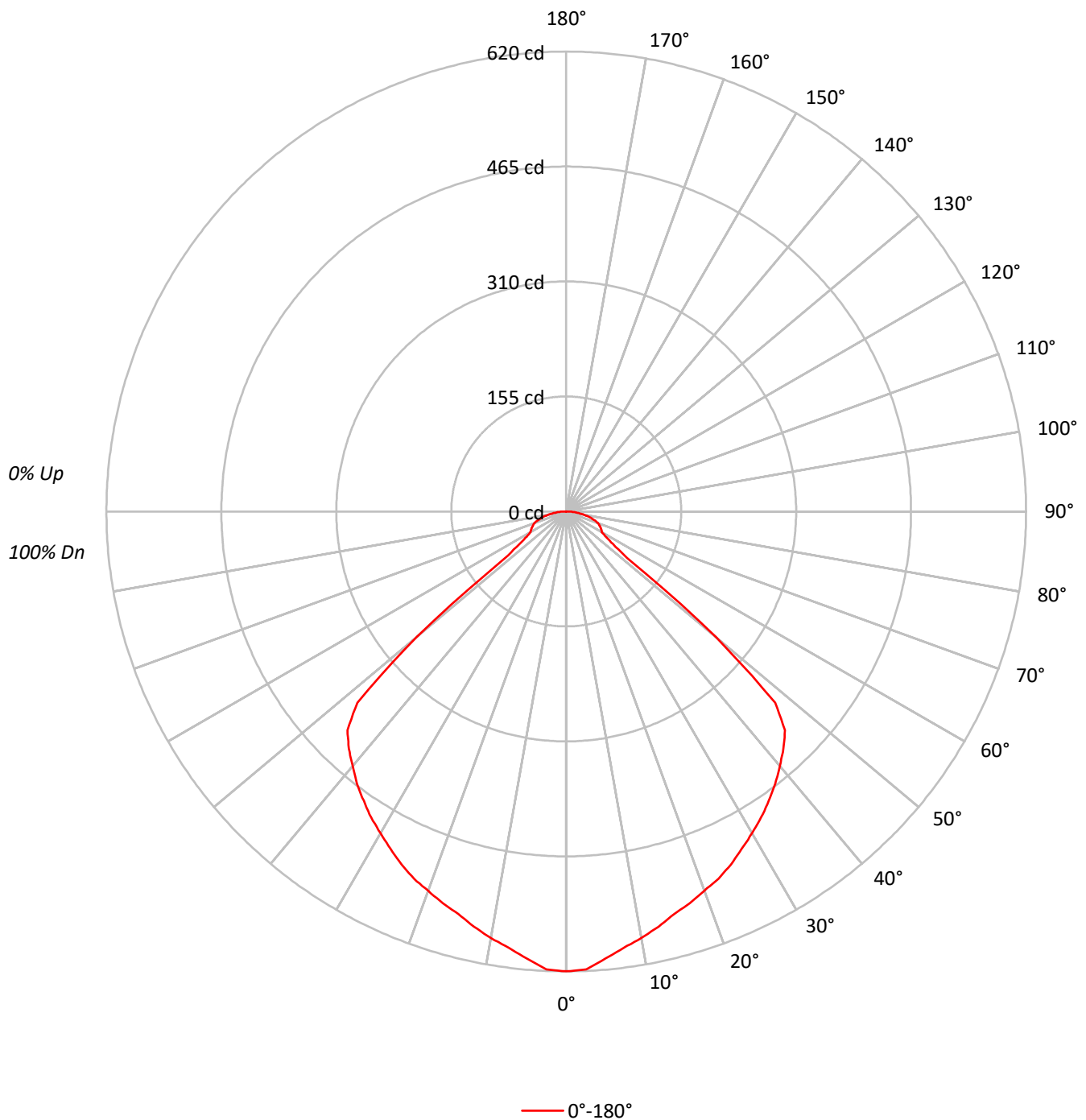
Lumens per Lamp: N/A
Luminaire Lumens: 1251.0 lumens
Efficiency: N/A
Efficacy: 166.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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	104	100	108	105	102	99	101	98	96		97	95	93		88
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		68
4	88	78	71	65	86	77	70	65	75	68	64		72	67	63		60
5	82	71	63	57	80	70	63	57	68	61	56		66	60	56		53
6	76	65	57	51	75	64	56	51	62	55	50		60	55	50		48
7	71	59	51	46	70	58	51	46	57	50	45		56	49	45		43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		39
9	62	50	43	37	61	49	42	37	48	42	37		47	41	37		35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3058
5°	2997
10°	2925
15°	2870
20°	2857
25°	2859
30°	2854
35°	2868
40°	2885
45°	2910
50°	2022
55°	658
60°	549
65°	595
70°	652
75°	677
80°	648
85°	657

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	4.6
10°-20°	159.1	12.7
20°-30°	242.0	19.3
30°-40°	298.2	23.8
40°-50°	305.9	24.5
50°-60°	88.9	7.1
60°-70°	50.3	4.0
70°-80°	36.8	2.9
80°-90°	12.7	1.0
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°	458.2	36.6
0°-40°	756.4	60.5
0°-60°	1151.2	92.0
0°-90°	1251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	620	
5°	605	57
15°	562	159
25°	525	242
35°	476	298
45°	417	306
55°	76	89
65°	51	50
75°	36	37
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	619.8
2.5°	617.9
5°	605.2
7.5°	593.2
10°	583.9
12.5°	573.5
15°	561.9
17.5°	553.8
20°	544.1
22.5°	536.0
25°	525.2
27.5°	512.9
30°	500.9
32.5°	489.3
35°	476.2
37.5°	463.0
40°	448.0
42.5°	433.7
45°	417.1
47.5°	381.9
50°	263.4
52.5°	103.5
55°	76.5
57.5°	62.9
60°	55.6
62.5°	53.3
65°	51.0
67.5°	48.3
70°	45.2
72.5°	40.9
75°	35.5
77.5°	29.0
80°	22.8
82.5°	17.0
85°	11.6
87.5°	6.6
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	6.40	7.81	6.77	8.13	8.44	6.40	7.81	6.77	8.13	8.44
	3H	8.83	10.08	9.21	10.41	10.78	8.83	10.08	9.21	10.41	10.78
	4H	9.88	11.06	10.29	11.41	11.79	9.88	11.06	10.29	11.41	11.79
	6H	10.67	11.75	11.08	12.12	12.51	10.67	11.75	11.08	12.12	12.51
	8H	10.95	11.97	11.38	12.36	12.77	10.95	11.97	11.38	12.36	12.77
	12H	11.16	12.14	11.59	12.52	12.95	11.16	12.14	11.59	12.52	12.95
4H	2H	7.15	8.32	7.55	8.67	9.05	7.15	8.32	7.55	8.67	9.05
	3H	9.85	10.81	10.26	11.21	11.61	9.85	10.81	10.26	11.21	11.61
	4H	11.04	11.90	11.47	12.32	12.76	11.04	11.90	11.47	12.32	12.76
	6H	11.96	12.70	12.42	13.15	13.61	11.96	12.70	12.42	13.15	13.61
	8H	12.28	12.98	12.75	13.43	13.90	12.28	12.98	12.75	13.43	13.90
	12H	12.55	13.17	13.04	13.65	14.13	12.55	13.17	13.04	13.65	14.13
8H	4H	11.46	12.16	11.93	12.61	13.08	11.46	12.16	11.93	12.61	13.08
	6H	12.52	13.10	13.02	13.59	14.07	12.52	13.10	13.02	13.59	14.07
	8H	12.94	13.47	13.46	13.98	14.47	12.94	13.47	13.46	13.98	14.47
	12H	13.31	13.78	13.83	14.27	14.84	13.31	13.78	13.83	14.27	14.84
12H	4H	11.51	12.13	11.99	12.61	13.09	11.51	12.13	11.99	12.61	13.09
	6H	12.60	13.13	13.12	13.64	14.13	12.60	13.13	13.12	13.64	14.13
	8H	13.10	13.57	13.61	14.06	14.63	13.10	13.57	13.61	14.06	14.63

END OF REPORT