

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: P980383

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-935-12L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

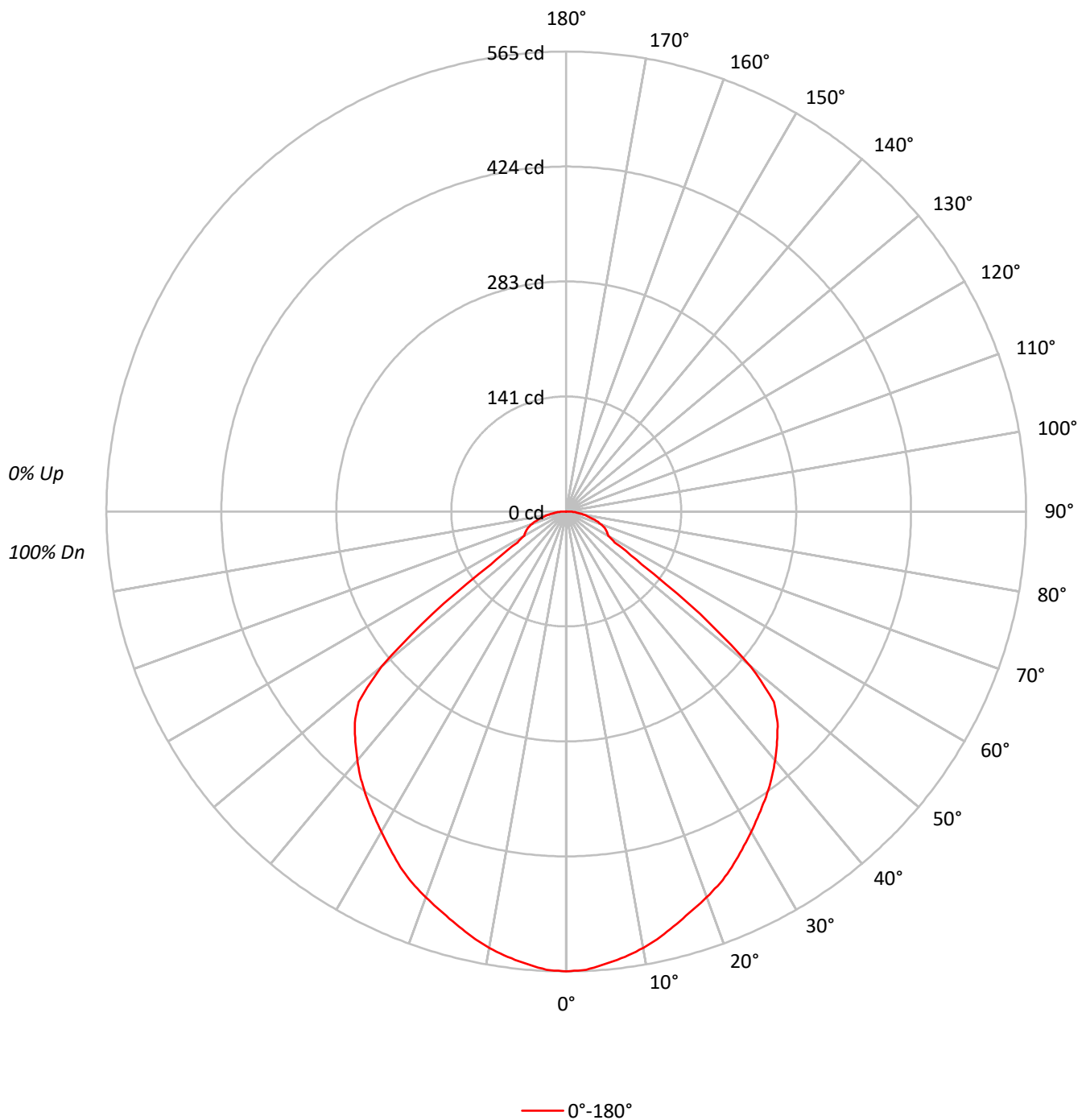
Lumens per Lamp: N/A
Luminaire Lumens: 1194.1 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	103	100	108	105	101	99	100	98	95		97	95	93		88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		67
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		52
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		42
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2788
5°	2764
10°	2728
15°	2679
20°	2648
25°	2624
30°	2589
35°	2577
40°	2572
45°	2563
50°	2274
55°	974
60°	587
65°	627
70°	646
75°	625
80°	602
85°	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2563 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	4.4
10°-20°	148.1	12.4
20°-30°	221.9	18.6
30°-40°	267.9	22.4
40°-50°	278.7	23.3
50°-60°	125.4	10.5
60°-70°	52.6	4.4
70°-80°	34.8	2.9
80°-90°	11.8	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°	422.9	35.4
0°-40°	690.8	57.9
0°-60°	1094.9	91.7
0°-90°	1194.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	565	
5°	558	53
15°	524	148
25°	482	222
35°	428	268
45°	367	279
55°	113	125
65°	54	53
75°	33	35
85°	11	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	565.0
2.5°	563.5
5°	558.0
7.5°	551.9
10°	544.5
12.5°	535.3
15°	524.4
17.5°	514.0
20°	504.4
22.5°	494.3
25°	482.0
27.5°	468.1
30°	454.5
32.5°	441.0
35°	427.9
37.5°	414.4
40°	399.3
42.5°	383.5
45°	367.3
47.5°	346.0
50°	296.2
52.5°	207.0
55°	113.2
57.5°	70.7
60°	59.5
62.5°	56.8
65°	53.7
67.5°	49.8
70°	44.8
72.5°	39.0
75°	32.8
77.5°	27.0
80°	21.2
82.5°	15.8
85°	10.8
87.5°	6.2
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	7.31	8.76	7.67	9.07	9.38	7.31	8.76	7.67	9.07	9.38
	3H	9.40	10.68	9.78	11.01	11.38	9.40	10.68	9.78	11.01	11.38
	4H	10.22	11.43	10.63	11.78	12.16	10.22	11.43	10.63	11.78	12.16
	6H	10.87	11.98	11.28	12.34	12.74	10.87	11.98	11.28	12.34	12.74
	8H	11.10	12.15	11.53	12.54	12.95	11.10	12.15	11.53	12.54	12.95
	12H	11.28	12.29	11.71	12.67	13.10	11.28	12.29	11.71	12.67	13.10
4H	2H	7.97	9.17	8.37	9.52	9.90	7.97	9.17	8.37	9.52	9.90
	3H	10.31	11.29	10.72	11.70	12.10	10.31	11.29	10.72	11.70	12.10
	4H	11.27	12.15	11.70	12.57	13.01	11.27	12.15	11.70	12.57	13.01
	6H	12.05	12.82	12.51	13.26	13.72	12.05	12.82	12.51	13.26	13.72
	8H	12.34	13.05	12.80	13.50	13.97	12.34	13.05	12.80	13.50	13.97
	12H	12.57	13.21	13.05	13.69	14.16	12.57	13.21	13.05	13.69	14.16
8H	4H	11.62	12.34	12.09	12.78	13.25	11.62	12.34	12.09	12.78	13.25
	6H	12.54	13.14	13.04	13.63	14.11	12.54	13.14	13.04	13.63	14.11
	8H	12.92	13.46	13.44	13.97	14.46	12.92	13.46	13.44	13.97	14.46
	12H	13.25	13.74	13.77	14.23	14.79	13.25	13.74	13.77	14.23	14.79
12H	4H	11.66	12.30	12.14	12.78	13.25	11.66	12.30	12.14	12.78	13.25
	6H	12.61	13.15	13.13	13.66	14.15	12.61	13.15	13.13	13.66	14.15
	8H	13.06	13.54	13.57	14.03	14.60	13.06	13.54	13.57	14.03	14.60