

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: P980463

Luminaire Tested: PRLX-243-940-12L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980463
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-243-940-12L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

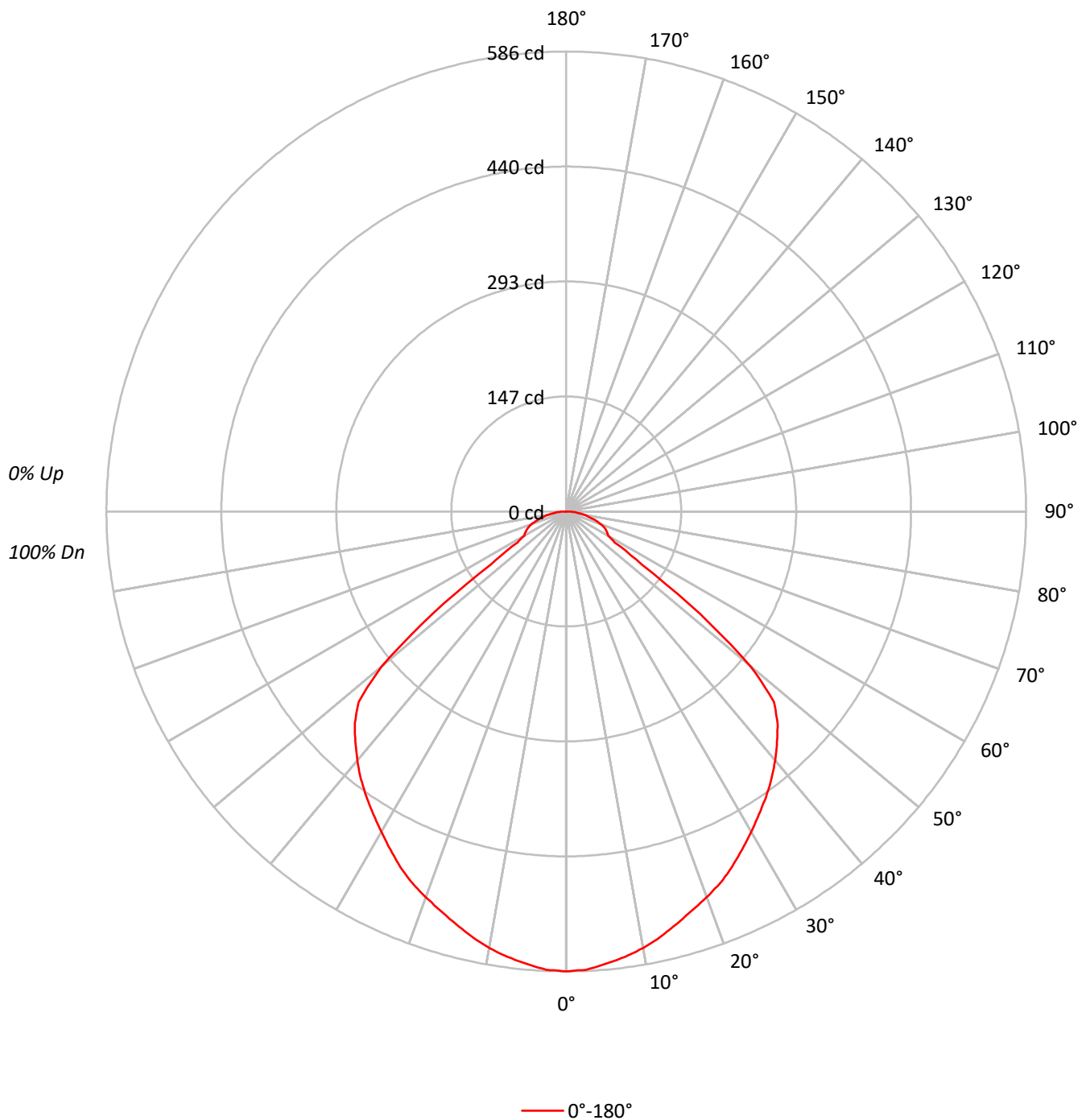
Lumens per Lamp: N/A
Luminaire Lumens: 1238.5 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.35
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2891
5°	2867
10°	2830
15°	2778
20°	2747
25°	2721
30°	2686
35°	2673
40°	2668
45°	2658
50°	2358
55°	1010
60°	609
65°	650
70°	671
75°	648
80°	625
85°	634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	4.4
10°-20°	153.6	12.4
20°-30°	230.2	18.6
30°-40°	277.9	22.4
40°-50°	289.1	23.3
50°-60°	130.1	10.5
60°-70°	54.6	4.4
70°-80°	36.1	2.9
80°-90°	12.2	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°	438.6	35.4
0°-40°	716.5	57.8
0°-60°	1135.6	91.7
0°-90°	1238.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	586	
5°	579	55
15°	544	154
25°	500	230
35°	444	278
45°	381	289
55°	117	130
65°	56	55
75°	34	36
85°	11	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	586.0
2.5°	584.4
5°	578.8
7.5°	572.4
10°	564.8
12.5°	555.2
15°	543.9
17.5°	533.1
20°	523.1
22.5°	512.7
25°	499.9
27.5°	485.5
30°	471.4
32.5°	457.4
35°	443.8
37.5°	429.8
40°	414.2
42.5°	397.7
45°	380.9
47.5°	358.9
50°	307.2
52.5°	214.7
55°	117.4
57.5°	73.3
60°	61.7
62.5°	58.9
65°	55.7
67.5°	51.7
70°	46.5
72.5°	40.5
75°	34.0
77.5°	28.0
80°	22.0
82.5°	16.4
85°	11.2
87.5°	6.4
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	7.43	8.88	7.80	9.19	9.51	7.43	8.88	7.80	9.19	9.51
	3H	9.53	10.81	9.90	11.14	11.50	9.53	10.81	9.90	11.14	11.50
	4H	10.35	11.55	10.75	11.90	12.28	10.35	11.55	10.75	11.90	12.28
	6H	11.00	12.10	11.41	12.47	12.86	11.00	12.10	11.41	12.47	12.86
	8H	11.23	12.28	11.66	12.67	13.07	11.23	12.28	11.66	12.67	13.07
	12H	11.41	12.42	11.84	12.80	13.23	11.41	12.42	11.84	12.80	13.23
4H	2H	8.10	9.30	8.50	9.65	10.03	8.10	9.30	8.50	9.65	10.03
	3H	10.44	11.42	10.85	11.82	12.23	10.44	11.42	10.85	11.82	12.23
	4H	11.40	12.28	11.83	12.70	13.14	11.40	12.28	11.83	12.70	13.14
	6H	12.18	12.94	12.64	13.39	13.85	12.18	12.94	12.64	13.39	13.85
	8H	12.46	13.18	12.93	13.62	14.09	12.46	13.18	12.93	13.62	14.09
	12H	12.70	13.34	13.18	13.82	14.29	12.70	13.34	13.18	13.82	14.29
8H	4H	11.75	12.47	12.22	12.91	13.38	11.75	12.47	12.22	12.91	13.38
	6H	12.67	13.26	13.17	13.76	14.24	12.67	13.26	13.17	13.76	14.24
	8H	13.05	13.58	13.56	14.10	14.59	13.05	13.58	13.56	14.10	14.59
	12H	13.38	13.86	13.89	14.36	14.92	13.38	13.86	13.89	14.36	14.92
12H	4H	11.79	12.43	12.27	12.91	13.38	11.79	12.43	12.27	12.91	13.38
	6H	12.74	13.28	13.26	13.79	14.28	12.74	13.28	13.26	13.79	14.28
	8H	13.19	13.67	13.70	14.16	14.73	13.19	13.67	13.70	14.16	14.73

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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