

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: P980471

Luminaire Tested: PRLX-243-940-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980471
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-243-940-18L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

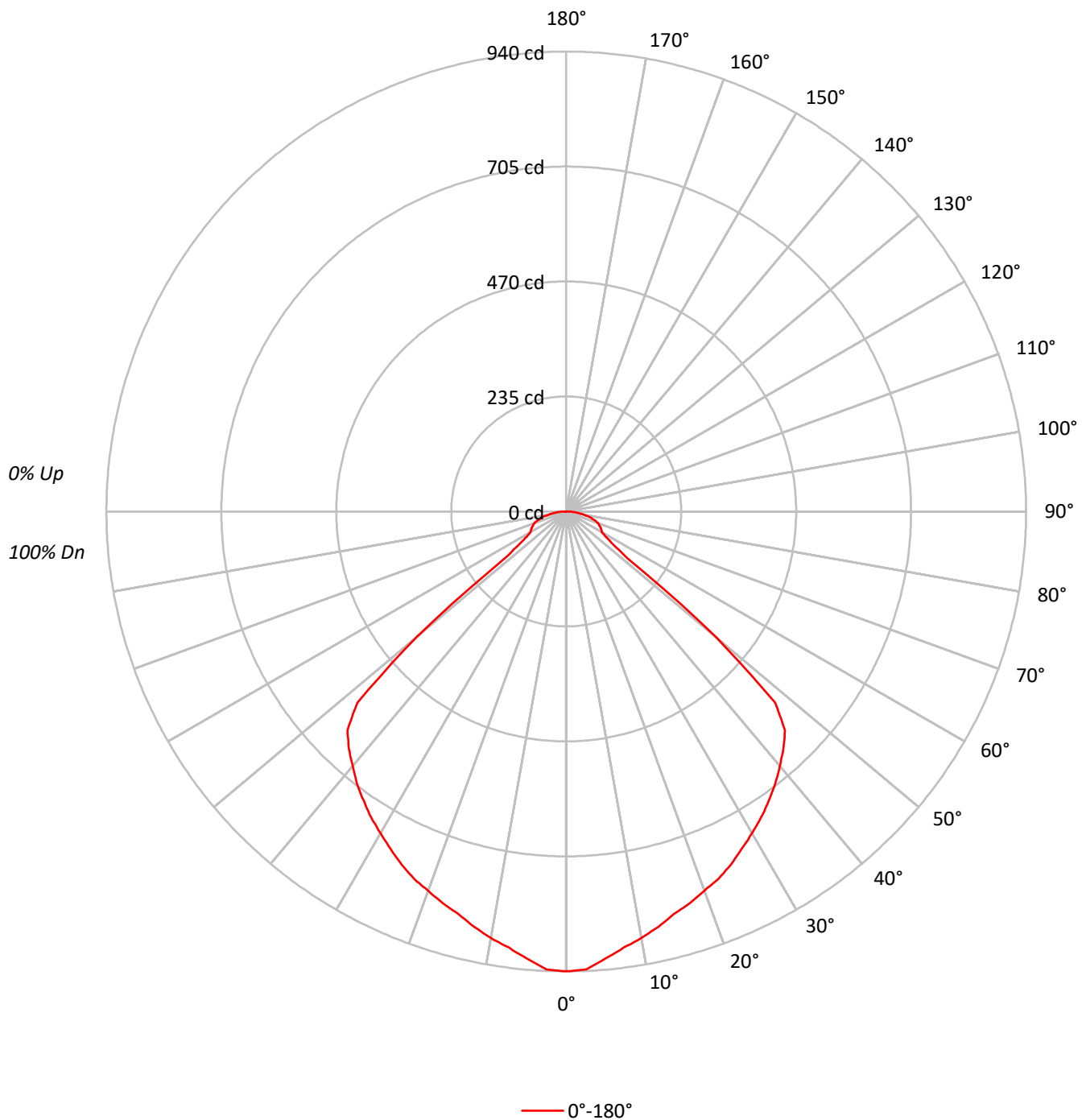
Lumens per Lamp: N/A
Luminaire Lumens: 1896.6 lumens
Efficiency: N/A
Efficacy: 172.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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°	4636
5°	4544
10°	4435
15°	4351
20°	4332
25°	4335
30°	4326
35°	4348
40°	4374
45°	4412
50°	3065
55°	997
60°	832
65°	902
70°	988
75°	1027
80°	980
85°	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	4.6
10°-20°	241.2	12.7
20°-30°	366.9	19.3
30°-40°	452.1	23.8
40°-50°	463.8	24.5
50°-60°	134.7	7.1
60°-70°	76.3	4.0
70°-80°	55.8	2.9
80°-90°	19.2	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°	694.7	36.6
0°-40°	1146.8	60.5
0°-60°	1745.4	92.0
0°-90°	1896.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	940	
5°	918	87
15°	852	241
25°	796	367
35°	722	452
45°	632	464
55°	116	135
65°	77	76
75°	54	56
85°	18	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	939.7
2.5°	936.8
5°	917.5
7.5°	899.3
10°	885.3
12.5°	869.5
15°	851.9
17.5°	839.6
20°	825.0
22.5°	812.7
25°	796.3
27.5°	777.5
30°	759.4
32.5°	741.8
35°	721.9
37.5°	702.0
40°	679.2
42.5°	657.5
45°	632.3
47.5°	579.1
50°	399.3
52.5°	156.9
55°	115.9
57.5°	95.4
60°	84.3
62.5°	80.8
65°	77.3
67.5°	73.2
70°	68.5
72.5°	62.1
75°	53.9
77.5°	43.9
80°	34.5
82.5°	25.8
85°	17.6
87.5°	10.0
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	7.85	9.26	8.22	9.58	9.89	7.85	9.26	8.22	9.58	9.89
	3H	10.27	11.53	10.65	11.86	12.22	10.27	11.53	10.65	11.86	12.22
	4H	11.33	12.50	11.73	12.85	13.23	11.33	12.50	11.73	12.85	13.23
	6H	12.12	13.19	12.53	13.56	13.96	12.12	13.19	12.53	13.56	13.96
	8H	12.39	13.42	12.82	13.81	14.21	12.39	13.42	12.82	13.81	14.21
	12H	12.61	13.59	13.04	13.97	14.40	12.61	13.59	13.04	13.97	14.40
4H	2H	8.60	9.77	9.00	10.12	10.50	8.60	9.77	9.00	10.12	10.50
	3H	11.30	12.25	11.71	12.66	13.06	11.30	12.25	11.71	12.66	13.06
	4H	12.49	13.35	12.92	13.77	14.21	12.49	13.35	12.92	13.77	14.21
	6H	13.40	14.15	13.86	14.59	15.06	13.40	14.15	13.86	14.59	15.06
	8H	13.73	14.43	14.20	14.87	15.34	13.73	14.43	14.20	14.87	15.34
	12H	14.00	14.62	14.48	15.10	15.57	14.00	14.62	14.48	15.10	15.57
8H	4H	12.91	13.61	13.38	14.06	14.52	12.91	13.61	13.38	14.06	14.52
	6H	13.96	14.54	14.46	15.04	15.52	13.96	14.54	14.46	15.04	15.52
	8H	14.39	14.91	14.91	15.42	15.91	14.39	14.91	14.91	15.42	15.91
	12H	14.76	15.23	15.27	15.72	16.29	14.76	15.23	15.27	15.72	16.29
12H	4H	12.96	13.58	13.44	14.06	14.53	12.96	13.58	13.44	14.06	14.53
	6H	14.05	14.57	14.57	15.08	15.57	14.05	14.57	14.57	15.08	15.57
	8H	14.54	15.01	15.06	15.50	16.07	14.54	15.01	15.06	15.50	16.07

END OF REPORT