

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P980473

Luminaire Tested: PRLX-243-940-LL2-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980473
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-LL2-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

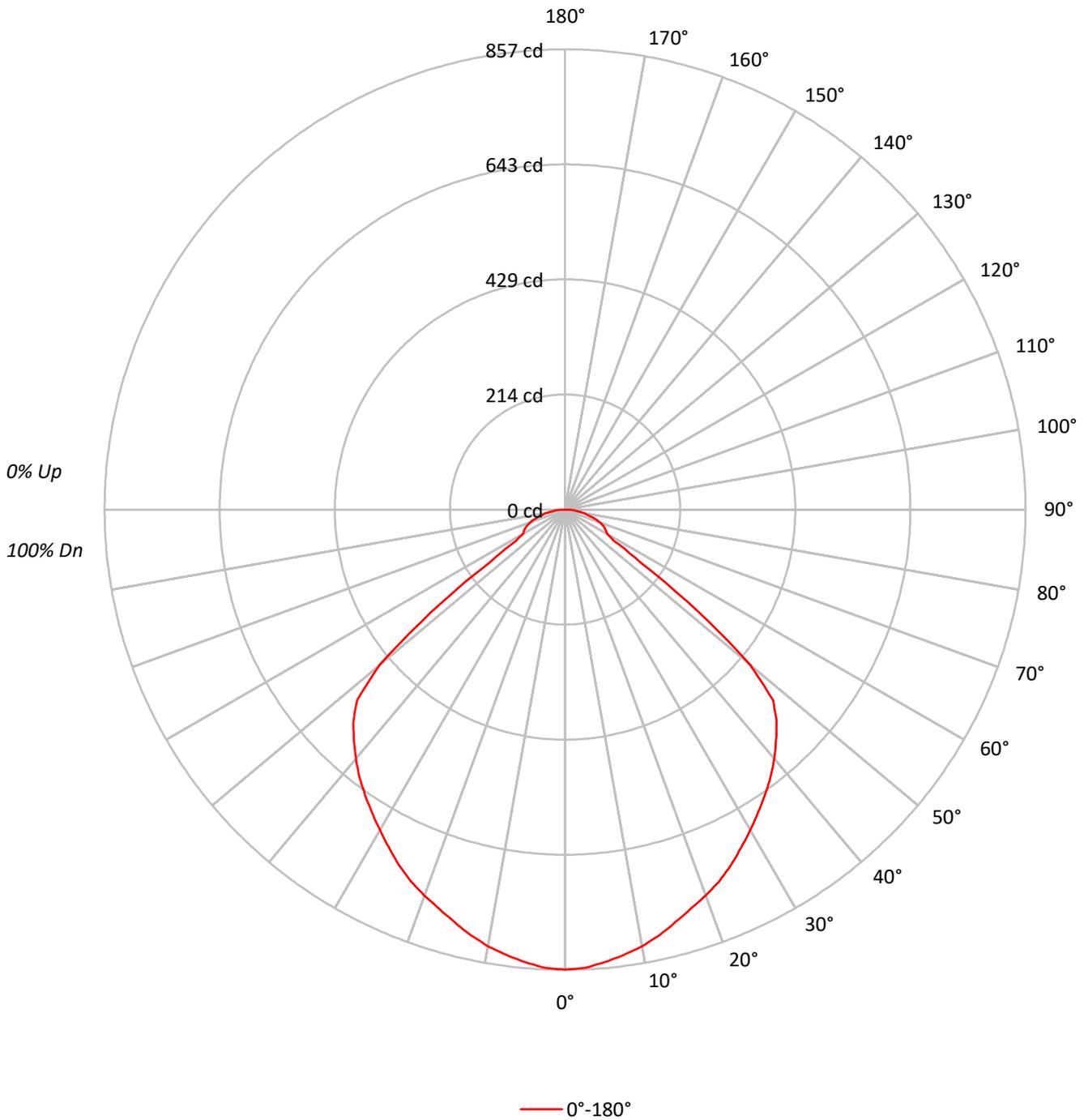
Lumens per Lamp: N/A
Luminaire Lumens: 1810.4 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.35
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4226
5°	4190
10°	4136
15°	4061
20°	4015
25°	3978
30°	3926
35°	3907
40°	3899
45°	3885
50°	3447
55°	1476
60°	890
65°	950
70°	979
75°	949
80°	915
85°	928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3885 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	4.4
10°-20°	224.5	12.4
20°-30°	336.5	18.6
30°-40°	406.2	22.4
40°-50°	422.6	23.3
50°-60°	190.1	10.5
60°-70°	79.8	4.4
70°-80°	52.7	2.9
80°-90°	17.9	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°	641.1	35.4
0°-40°	1047.3	57.8
0°-60°	1659.9	91.7
0°-90°	1810.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	857	
5°	846	80
15°	795	225
25°	731	336
35°	649	406
45°	557	423
55°	172	190
65°	81	80
75°	50	53
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	856.6
2.5°	854.2
5°	846.0
7.5°	836.7
10°	825.6
12.5°	811.5
15°	795.1
17.5°	779.3
20°	764.7
22.5°	749.4
25°	730.7
27.5°	709.6
30°	689.1
32.5°	668.6
35°	648.7
37.5°	628.2
40°	605.4
42.5°	581.4
45°	556.8
47.5°	524.6
50°	449.1
52.5°	313.8
55°	171.6
57.5°	107.1
60°	90.2
62.5°	86.1
65°	81.4
67.5°	75.5
70°	67.9
72.5°	59.1
75°	49.8
77.5°	41.0
80°	32.2
82.5°	24.0
85°	16.4
87.5°	9.4
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	8.75	10.20	9.11	10.51	10.82	8.75	10.20	9.11	10.51	10.82
	3H	10.84	12.13	11.22	12.46	12.82	10.84	12.13	11.22	12.46	12.82
	4H	11.67	12.87	12.07	13.22	13.60	11.67	12.87	12.07	13.22	13.60
	6H	12.32	13.42	12.73	13.79	14.18	12.32	13.42	12.73	13.79	14.18
	8H	12.55	13.60	12.98	13.99	14.39	12.55	13.60	12.98	13.99	14.39
	12H	12.73	13.74	13.16	14.12	14.55	12.73	13.74	13.16	14.12	14.55
4H	2H	9.41	10.61	9.81	10.96	11.34	9.41	10.61	9.81	10.96	11.34
	3H	11.75	12.74	12.17	13.14	13.54	11.75	12.74	12.17	13.14	13.54
	4H	12.72	13.60	13.15	14.01	14.46	12.72	13.60	13.15	14.01	14.46
	6H	13.50	14.26	13.96	14.71	15.17	13.50	14.26	13.96	14.71	15.17
	8H	13.78	14.50	14.25	14.95	15.41	13.78	14.50	14.25	14.95	15.41
	12H	14.02	14.66	14.50	15.14	15.61	14.02	14.66	14.50	15.14	15.61
8H	4H	13.07	13.79	13.54	14.23	14.70	13.07	13.79	13.54	14.23	14.70
	6H	13.99	14.59	14.49	15.08	15.56	13.99	14.59	14.49	15.08	15.56
	8H	14.37	14.91	14.89	15.42	15.91	14.37	14.91	14.89	15.42	15.91
	12H	14.71	15.19	15.22	15.68	16.25	14.71	15.19	15.22	15.68	16.25
12H	4H	13.11	13.74	13.59	14.22	14.70	13.11	13.74	13.59	14.22	14.70
	6H	14.06	14.60	14.58	15.11	15.60	14.06	14.60	14.58	15.11	15.60
	8H	14.51	14.99	15.02	15.48	16.05	14.51	14.99	15.02	15.48	16.05