

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: P979853

Luminaire Tested: PRLX-241-940-LL4-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-LL4-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

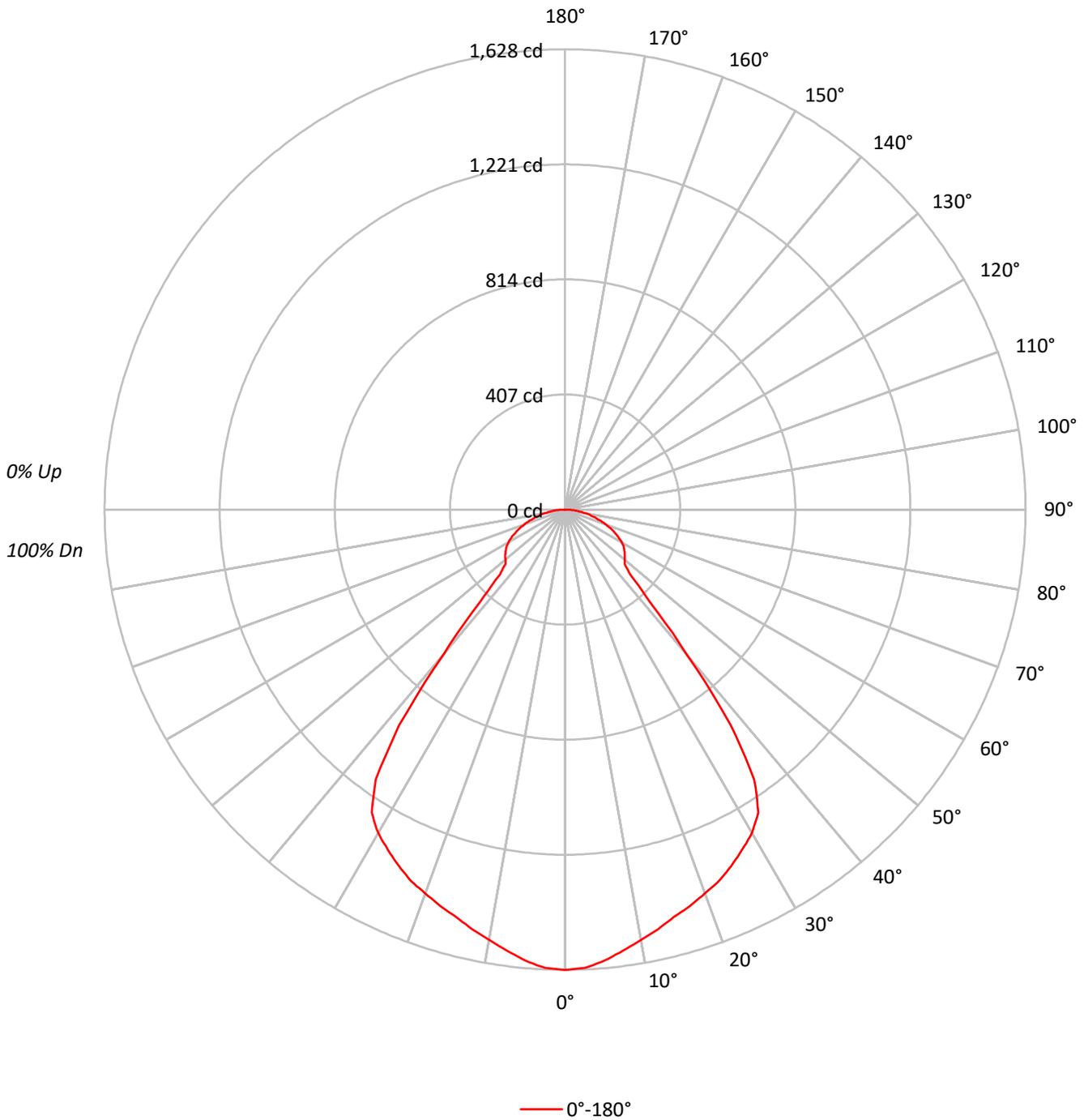
Lumens per Lamp: N/A
Luminaire Lumens: 2761.8 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12553
5°	12392
10°	12105
15°	11903
20°	11853
25°	11830
30°	11763
35°	10971
40°	6753
45°	3551
50°	3296
55°	3443
60°	3566
65°	3539
70°	3437
75°	3273
80°	3085
85°	2848

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 3568 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	5.5
10°-20°	422.1	15.3
20°-30°	640.8	23.2
30°-40°	682.8	24.7
40°-50°	291.7	10.6
50°-60°	228.8	8.3
60°-70°	191.3	6.9
70°-80°	116.5	4.2
80°-90°	36.8	1.3
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°	1213.9	44.0
0°-40°	1896.7	68.7
0°-60°	2417.2	87.5
0°-90°	2761.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1628	
5°	1601	151
15°	1491	422
25°	1391	641
35°	1166	683
45°	326	292
55°	256	229
65°	194	191
75°	110	117
85°	32	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1628.4
2.5°	1623.2
5°	1601.4
7.5°	1573.4
10°	1546.4
12.5°	1519.5
15°	1491.4
17.5°	1469.7
20°	1444.8
22.5°	1422.0
25°	1390.8
27.5°	1356.6
30°	1321.4
32.5°	1271.6
35°	1165.8
37.5°	963.5
40°	671.0
42.5°	442.9
45°	325.7
47.5°	285.2
50°	274.8
52.5°	266.6
55°	256.2
57.5°	245.8
60°	231.3
62.5°	213.7
65°	194.0
67.5°	173.2
70°	152.5
72.5°	130.7
75°	109.9
77.5°	90.2
80°	69.5
82.5°	50.8
85°	32.2
87.5°	17.6
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	14.79	16.13	15.16	16.45	16.76	14.79	16.13	15.16	16.45	16.76
	3H	16.80	18.00	17.18	18.33	18.69	16.80	18.00	17.18	18.33	18.69
	4H	17.56	18.68	17.96	19.03	19.41	17.56	18.68	17.96	19.03	19.41
	6H	18.14	19.18	18.55	19.55	19.94	18.14	19.18	18.55	19.55	19.94
	8H	18.34	19.33	18.77	19.72	20.12	18.34	19.33	18.77	19.72	20.12
	12H	18.48	19.42	18.91	19.81	20.24	18.48	19.42	18.91	19.81	20.24
4H	2H	15.46	16.59	15.87	16.94	17.32	15.46	16.59	15.87	16.94	17.32
	3H	17.66	18.60	18.08	19.01	19.41	17.66	18.60	18.08	19.01	19.41
	4H	18.55	19.39	18.98	19.81	20.25	18.55	19.39	18.98	19.81	20.25
	6H	19.26	20.00	19.73	20.44	20.91	19.26	20.00	19.73	20.44	20.91
	8H	19.51	20.20	19.98	20.65	21.12	19.51	20.20	19.98	20.65	21.12
	12H	19.70	20.31	20.19	20.79	21.26	19.70	20.31	20.19	20.79	21.26
8H	4H	18.87	19.55	19.33	20.00	20.47	18.87	19.55	19.33	20.00	20.47
	6H	19.72	20.29	20.23	20.78	21.26	19.72	20.29	20.23	20.78	21.26
	8H	20.06	20.56	20.58	21.08	21.57	20.06	20.56	20.58	21.08	21.57
	12H	20.34	20.78	20.86	21.28	21.85	20.34	20.78	20.86	21.28	21.85
12H	4H	18.90	19.50	19.38	19.99	20.46	18.90	19.50	19.38	19.99	20.46
	6H	19.79	20.29	20.31	20.80	21.29	19.79	20.29	20.31	20.80	21.29
	8H	20.19	20.63	20.71	21.13	21.70	20.19	20.63	20.71	21.13	21.70