

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: P979293

Luminaire Tested: PRLX-240-927-LL4-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-LL4-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

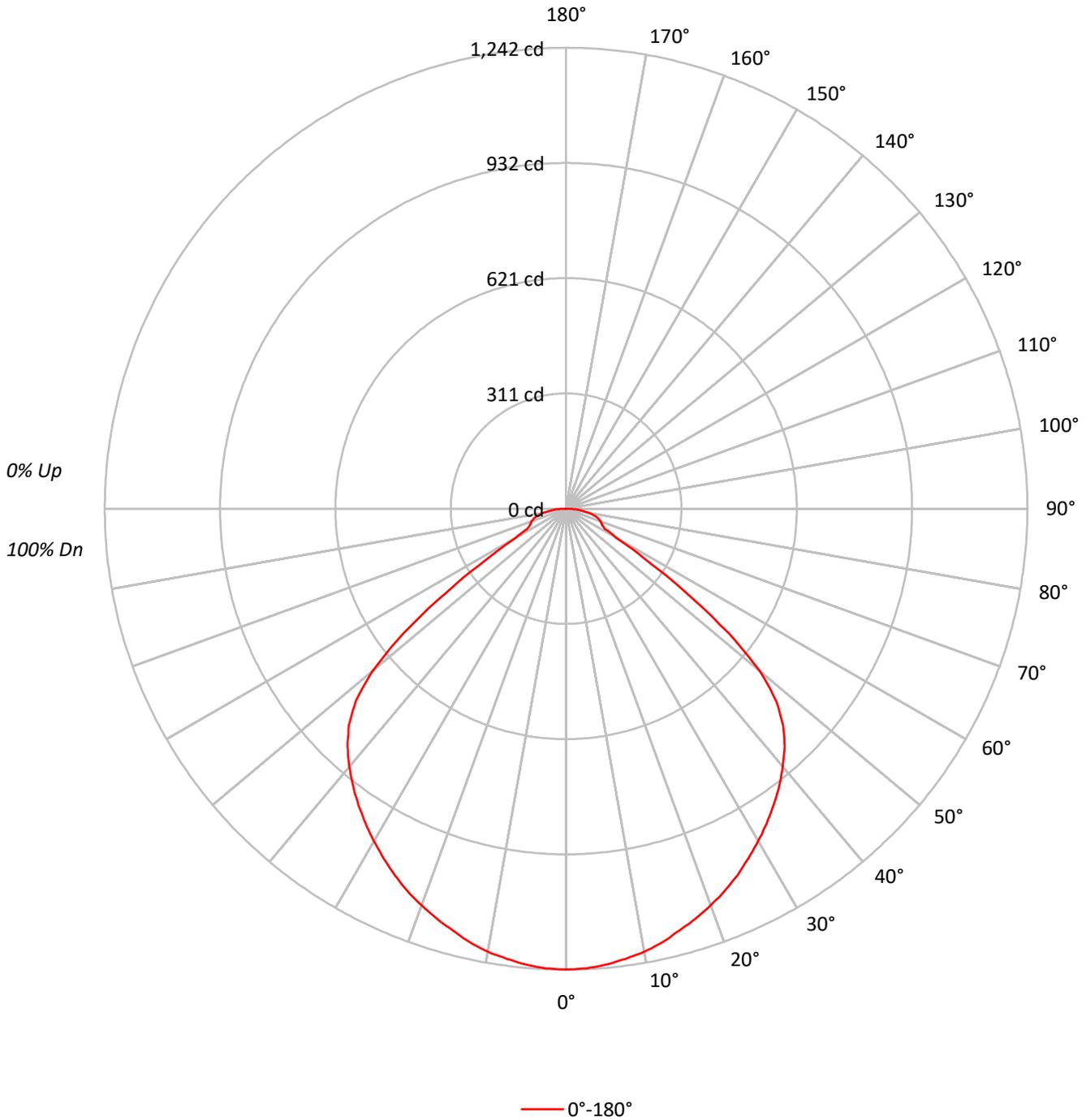
Lumens per Lamp: N/A
Luminaire Lumens: 2778.7 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	89	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12503
5°	12468
10°	12397
15°	12268
20°	12190
25°	12112
30°	12028
35°	11975
40°	11930
45°	11766
50°	10655
55°	6924
60°	3125
65°	2566
70°	2903
75°	3233
80°	3386
85°	3477

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11766 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	4.2
10°-20°	332.5	12.0
20°-30°	502.5	18.1
30°-40°	609.8	21.9
40°-50°	628.7	22.6
50°-60°	356.5	12.8
60°-70°	112.8	4.1
70°-80°	86.0	3.1
80°-90°	32.8	1.2
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°	952.1	34.3
0°-40°	1561.9	56.2
0°-60°	2547.1	91.7
0°-90°	2778.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1242	
5°	1234	117
15°	1177	333
25°	1090	503
35°	974	610
45°	826	629
55°	394	357
65°	108	113
75°	83	86
85°	30	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1241.7
2.5°	1239.9
5°	1233.5
7.5°	1223.5
10°	1212.5
12.5°	1197.0
15°	1176.9
17.5°	1158.6
20°	1137.6
22.5°	1115.7
25°	1090.2
27.5°	1062.8
30°	1034.5
32.5°	1005.2
35°	974.2
37.5°	942.2
40°	907.6
42.5°	871.0
45°	826.3
47.5°	767.9
50°	680.2
52.5°	551.5
55°	394.4
57.5°	247.4
60°	155.2
62.5°	117.8
65°	107.7
67.5°	103.2
70°	98.6
72.5°	92.2
75°	83.1
77.5°	72.1
80°	58.4
82.5°	44.7
85°	30.1
87.5°	16.4
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	15.41	16.88	15.78	17.20	17.51	15.41	16.88	15.78	17.20	17.51
	3H	16.30	17.61	16.68	17.94	18.30	16.30	17.61	16.68	17.94	18.30
	4H	16.91	18.13	17.31	18.48	18.86	16.91	18.13	17.31	18.48	18.86
	6H	17.51	18.64	17.92	19.00	19.40	17.51	18.64	17.92	19.00	19.40
	8H	17.75	18.82	18.18	19.21	19.61	17.75	18.82	18.18	19.21	19.61
	12H	17.93	18.96	18.36	19.34	19.77	17.93	18.96	18.36	19.34	19.77
4H	2H	15.54	16.76	15.94	17.11	17.49	15.54	16.76	15.94	17.11	17.49
	3H	16.78	17.78	17.19	18.18	18.58	16.78	17.78	17.19	18.18	18.58
	4H	17.60	18.50	18.04	18.91	19.35	17.60	18.50	18.04	18.91	19.35
	6H	18.41	19.19	18.87	19.63	20.09	18.41	19.19	18.87	19.63	20.09
	8H	18.73	19.45	19.19	19.90	20.37	18.73	19.45	19.19	19.90	20.37
	12H	18.99	19.64	19.47	20.12	20.59	18.99	19.64	19.47	20.12	20.59
8H	4H	17.92	18.65	18.38	19.09	19.56	17.92	18.65	18.38	19.09	19.56
	6H	18.88	19.49	19.38	19.98	20.46	18.88	19.49	19.38	19.98	20.46
	8H	19.30	19.86	19.82	20.37	20.86	19.30	19.86	19.82	20.37	20.86
	12H	19.67	20.17	20.18	20.66	21.23	19.67	20.17	20.18	20.66	21.23
12H	4H	17.96	18.61	18.44	19.09	19.56	17.96	18.61	18.44	19.09	19.56
	6H	18.97	19.52	19.48	20.03	20.52	18.97	19.52	19.48	20.03	20.52
	8H	19.46	19.95	19.97	20.44	21.01	19.46	19.95	19.97	20.44	21.01