

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: P979603

Luminaire Tested: PRLX-241-927-LL3-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979603
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-241-927-LL3-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

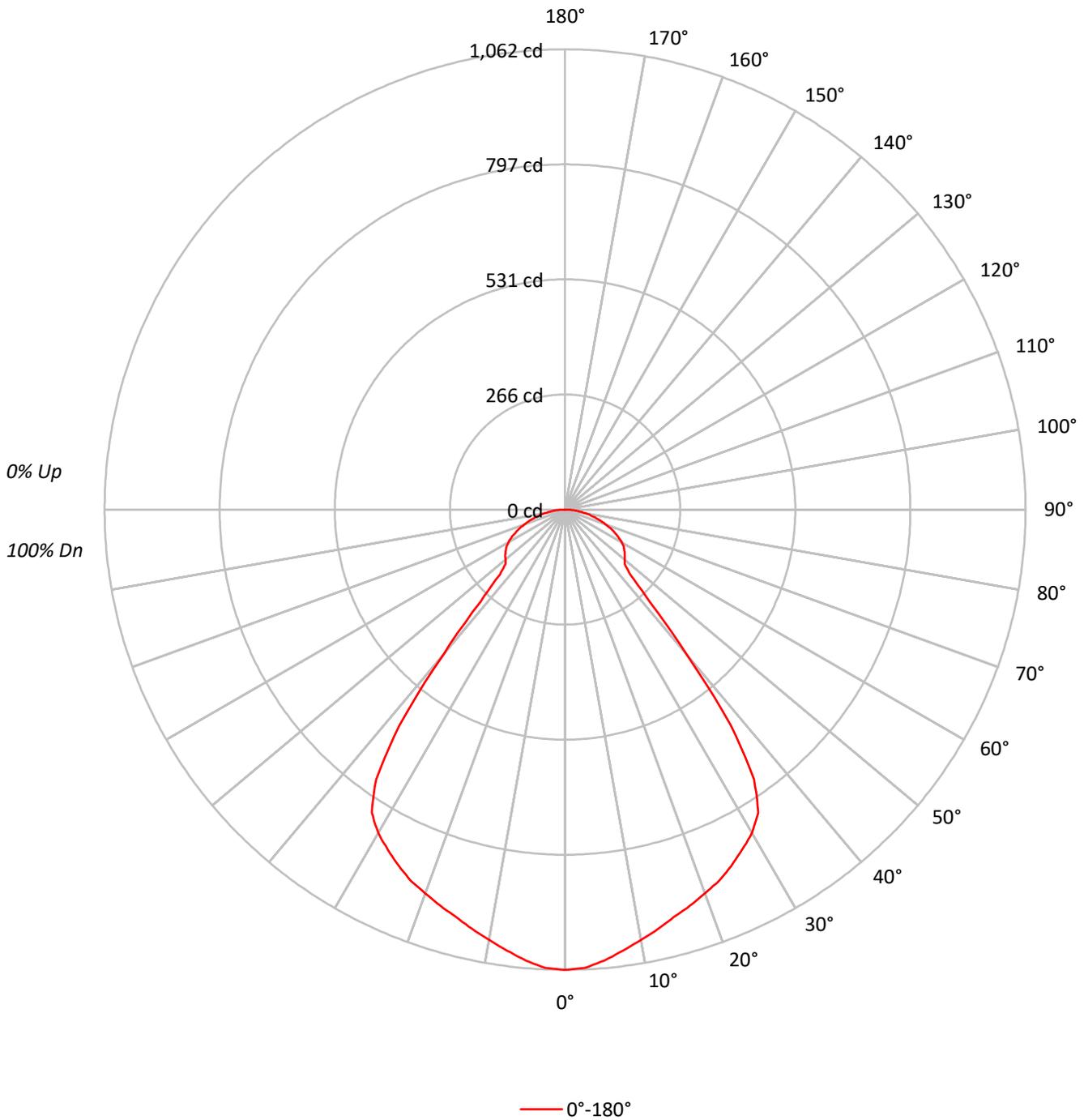
Lumens per Lamp: N/A
Luminaire Lumens: 1801.2 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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°	8187
5°	8082
10°	7895
15°	7763
20°	7730
25°	7716
30°	7671
35°	7155
40°	4404
45°	2316
50°	2150
55°	2246
60°	2325
65°	2308
70°	2240
75°	2136
80°	2011
85°	1857

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 2326 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	5.5
10°-20°	275.3	15.3
20°-30°	417.9	23.2
30°-40°	445.3	24.7
40°-50°	190.2	10.6
50°-60°	149.2	8.3
60°-70°	124.7	6.9
70°-80°	76.0	4.2
80°-90°	24.0	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°	791.7	44.0
0°-40°	1237.0	68.7
0°-60°	1576.5	87.5
0°-90°	1801.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1062	
5°	1044	99
15°	973	275
25°	907	418
35°	760	445
45°	212	190
55°	167	149
65°	126	125
75°	72	76
85°	21	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1062.0
2.5°	1058.6
5°	1044.4
7.5°	1026.1
10°	1008.5
12.5°	991.0
15°	972.7
17.5°	958.5
20°	942.3
22.5°	927.4
25°	907.1
27.5°	884.8
30°	861.8
32.5°	829.3
35°	760.3
37.5°	628.4
40°	437.6
42.5°	288.8
45°	212.4
47.5°	186.0
50°	179.3
52.5°	173.8
55°	167.1
57.5°	160.3
60°	150.8
62.5°	139.3
65°	126.5
67.5°	113.0
70°	99.4
72.5°	85.2
75°	71.7
77.5°	58.8
80°	45.3
82.5°	33.1
85°	21.0
87.5°	11.5
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	13.31	14.65	13.67	14.96	15.28	13.31	14.65	13.67	14.96	15.28
	3H	15.31	16.52	15.69	16.84	17.21	15.31	16.52	15.69	16.84	17.21
	4H	16.07	17.20	16.47	17.55	17.93	16.07	17.20	16.47	17.55	17.93
	6H	16.66	17.69	17.07	18.06	18.46	16.66	17.69	17.07	18.06	18.46
	8H	16.86	17.84	17.28	18.23	18.64	16.86	17.84	17.28	18.23	18.64
	12H	16.99	17.94	17.43	18.32	18.75	16.99	17.94	17.43	18.32	18.75
4H	2H	13.98	15.11	14.38	15.46	15.84	13.98	15.11	14.38	15.46	15.84
	3H	16.18	17.12	16.59	17.52	17.92	16.18	17.12	16.59	17.52	17.92
	4H	17.06	17.91	17.50	18.33	18.77	17.06	17.91	17.50	18.33	18.77
	6H	17.78	18.51	18.24	18.96	19.42	17.78	18.51	18.24	18.96	19.42
	8H	18.03	18.71	18.50	19.16	19.63	18.03	18.71	18.50	19.16	19.63
	12H	18.21	18.82	18.70	19.30	19.78	18.21	18.82	18.70	19.30	19.78
8H	4H	17.38	18.07	17.85	18.51	18.98	17.38	18.07	17.85	18.51	18.98
	6H	18.24	18.80	18.74	19.29	19.77	18.24	18.80	18.74	19.29	19.77
	8H	18.58	19.08	19.10	19.59	20.08	18.58	19.08	19.10	19.59	20.08
	12H	18.86	19.30	19.37	19.79	20.36	18.86	19.30	19.37	19.79	20.36
12H	4H	17.41	18.02	17.90	18.50	18.97	17.41	18.02	17.90	18.50	18.97
	6H	18.30	18.80	18.82	19.32	19.81	18.30	18.80	18.82	19.32	19.81
	8H	18.71	19.14	19.22	19.64	20.21	18.71	19.14	19.22	19.64	20.21