

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: P979281

Luminaire Tested: PRLX-240-927-LL3-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-LL3-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2157.5 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

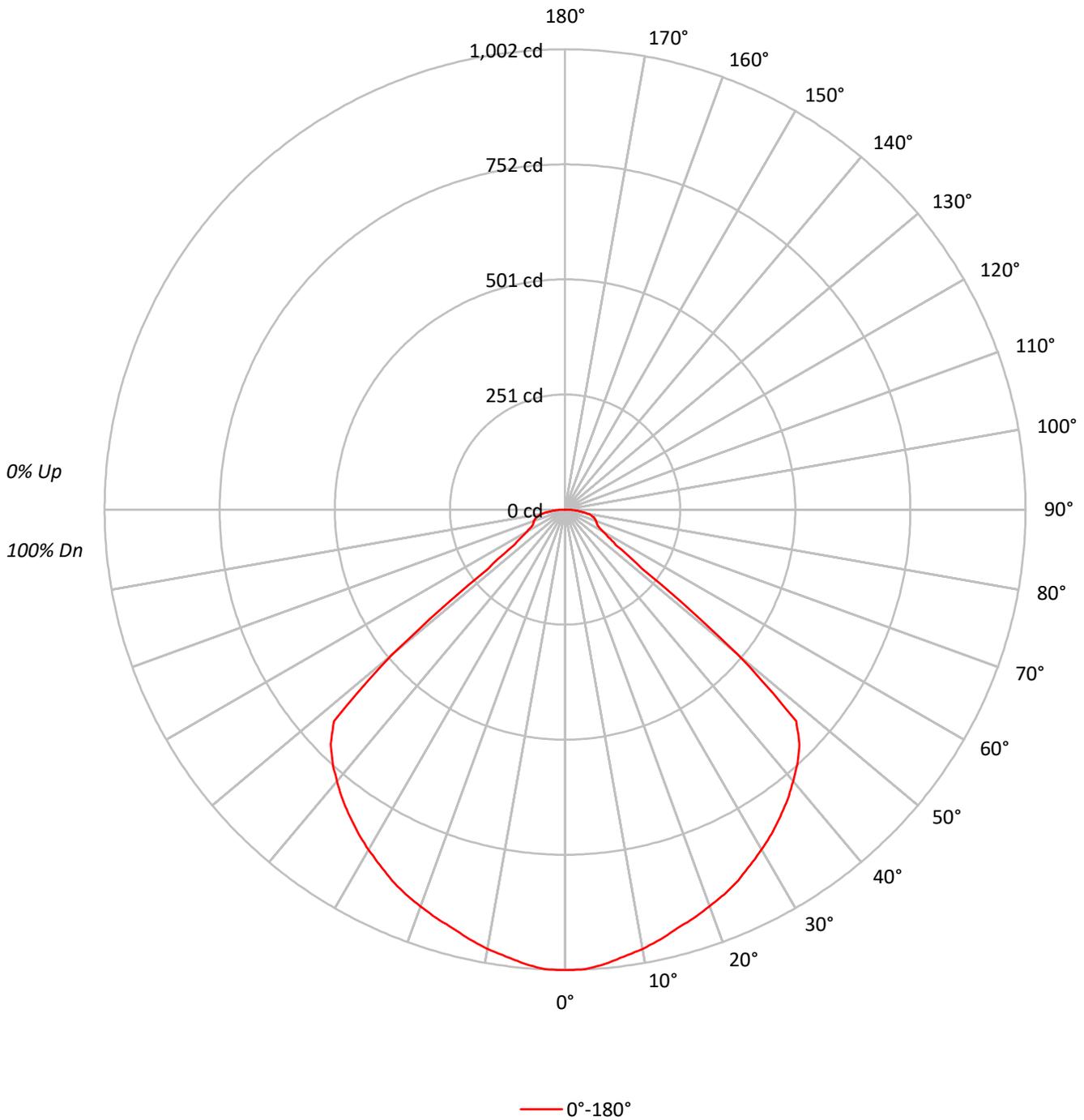
Input Watts (W): 15
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	101	99	100	98	95	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10094
5°	10037
10°	9931
15°	9836
20°	9850
25°	9897
30°	9941
35°	10035
40°	10145
45°	10268
50°	7671
55°	2387
60°	1907
65°	1837
70°	2111
75°	2502
80°	2864
85°	2819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	4.4
10°-20°	267.1	12.4
20°-30°	410.7	19.0
30°-40°	511.3	23.7
40°-50°	536.4	24.9
50°-60°	165.8	7.7
60°-70°	78.6	3.6
70°-80°	66.4	3.1
80°-90°	27.2	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°	771.9	35.8
0°-40°	1283.1	59.5
0°-60°	1985.4	92.0
0°-90°	2157.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2157.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1002	
5°	993	94
15°	944	267
25°	891	411
35°	816	511
45°	721	536
55°	136	166
65°	77	79
75°	64	66
85°	24	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1002.5
2.5°	1001.8
5°	993.0
7.5°	981.5
10°	971.3
12.5°	958.5
15°	943.6
17.5°	932.1
20°	919.3
22.5°	906.4
25°	890.8
27.5°	872.6
30°	855.0
32.5°	836.7
35°	816.4
37.5°	795.5
40°	771.8
42.5°	748.8
45°	721.1
47.5°	681.8
50°	489.7
52.5°	210.4
55°	136.0
57.5°	113.0
60°	94.7
62.5°	82.5
65°	77.1
67.5°	74.4
70°	71.7
72.5°	68.3
75°	64.3
77.5°	58.2
80°	49.4
82.5°	37.2
85°	24.4
87.5°	13.5
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	11.02	12.44	11.38	12.76	13.07	11.02	12.44	11.38	12.76	13.07
	3H	12.98	14.24	13.36	14.57	14.94	12.98	14.24	13.36	14.57	14.94
	4H	14.14	15.32	14.54	15.67	16.05	14.14	15.32	14.54	15.67	16.05
	6H	15.27	16.36	15.68	16.73	17.12	15.27	16.36	15.68	16.73	17.12
	8H	15.70	16.73	16.13	17.12	17.52	15.70	16.73	16.13	17.12	17.52
	12H	16.00	16.99	16.43	17.37	17.80	16.00	16.99	16.43	17.37	17.80
4H	2H	11.52	12.71	11.93	13.06	13.44	11.52	12.71	11.93	13.06	13.44
	3H	13.89	14.86	14.30	15.26	15.66	13.89	14.86	14.30	15.26	15.66
	4H	15.27	16.14	15.70	16.56	17.00	15.27	16.14	15.70	16.56	17.00
	6H	16.60	17.35	17.06	17.79	18.26	16.60	17.35	17.06	17.79	18.26
	8H	17.09	17.80	17.56	18.24	18.71	17.09	17.80	17.56	18.24	18.71
	12H	17.46	18.09	17.95	18.57	19.05	17.46	18.09	17.95	18.57	19.05
8H	4H	15.80	16.51	16.27	16.96	17.43	15.80	16.51	16.27	16.96	17.43
	6H	17.31	17.90	17.81	18.39	18.87	17.31	17.90	17.81	18.39	18.87
	8H	17.91	18.45	18.43	18.96	19.45	17.91	18.45	18.43	18.96	19.45
	12H	18.39	18.87	18.90	19.36	19.93	18.39	18.87	18.90	19.36	19.93
12H	4H	15.90	16.53	16.38	17.01	17.48	15.90	16.53	16.38	17.01	17.48
	6H	17.45	17.98	17.96	18.49	18.98	17.45	17.98	17.96	18.49	18.98
	8H	18.13	18.61	18.64	19.10	19.67	18.13	18.61	18.64	19.10	19.67