

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: P979263

Luminaire Tested: PRLX-240-927-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979263
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-LL1-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

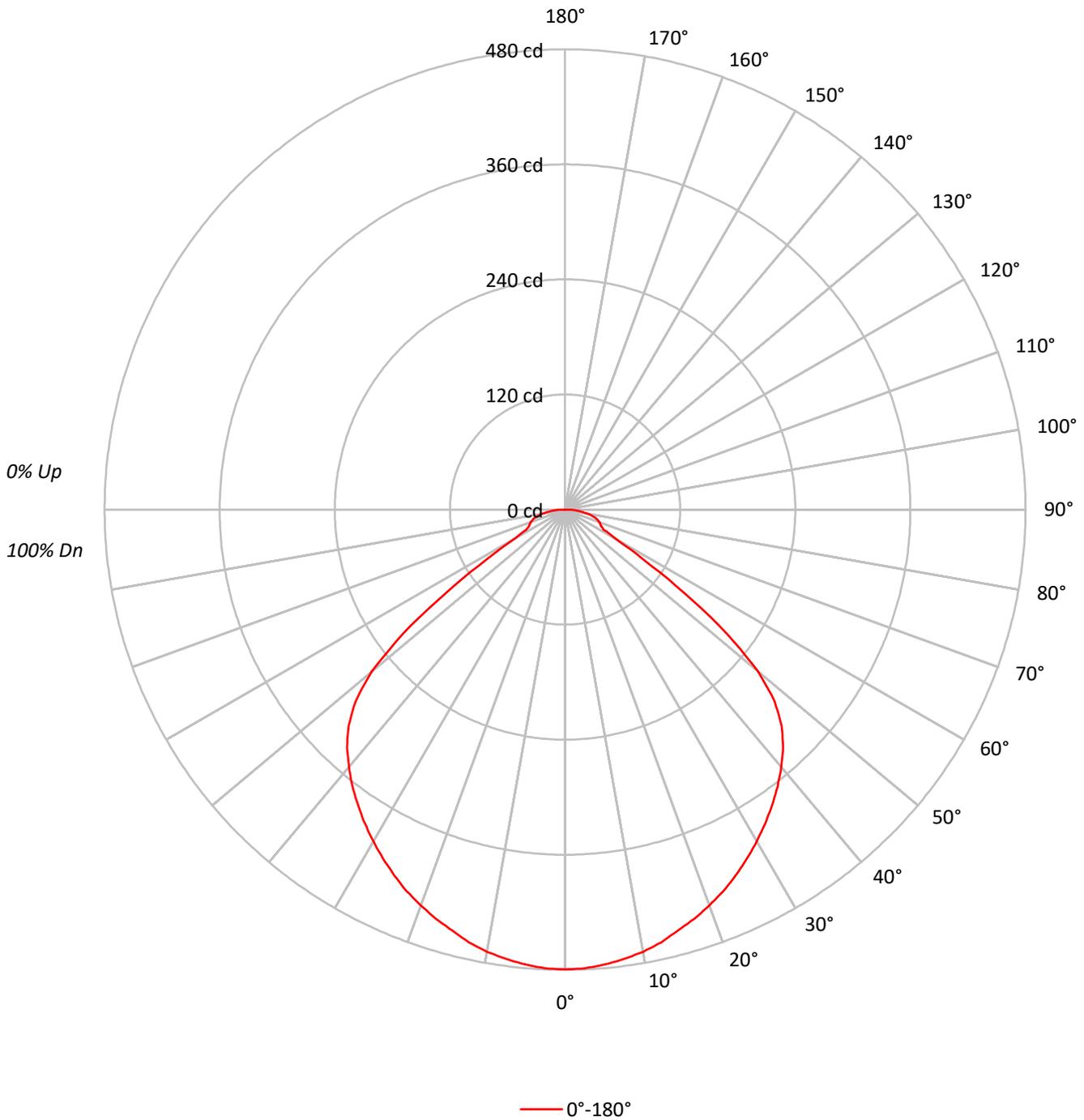
Lumens per Lamp: N/A
Luminaire Lumens: 1073.1 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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																		
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	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°	4828
5°	4815
10°	4788
15°	4738
20°	4707
25°	4677
30°	4645
35°	4624
40°	4607
45°	4544
50°	4115
55°	2674
60°	1206
65°	991
70°	1122
75°	1249
80°	1310
85°	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4544 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	4.2
10°-20°	128.4	12.0
20°-30°	194.1	18.1
30°-40°	235.5	21.9
40°-50°	242.8	22.6
50°-60°	137.7	12.8
60°-70°	43.5	4.1
70°-80°	33.3	3.1
80°-90°	12.7	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°	367.7	34.3
0°-40°	603.2	56.2
0°-60°	983.7	91.7
0°-90°	1073.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	480	
5°	476	45
15°	454	128
25°	421	194
35°	376	235
45°	319	243
55°	152	138
65°	42	44
75°	32	33
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	479.5
2.5°	478.8
5°	476.4
7.5°	472.5
10°	468.3
12.5°	462.3
15°	454.5
17.5°	447.5
20°	439.3
22.5°	430.9
25°	421.0
27.5°	410.4
30°	399.5
32.5°	388.2
35°	376.2
37.5°	363.9
40°	350.5
42.5°	336.4
45°	319.1
47.5°	296.5
50°	262.7
52.5°	213.0
55°	152.3
57.5°	95.6
60°	59.9
62.5°	45.5
65°	41.6
67.5°	39.8
70°	38.1
72.5°	35.6
75°	32.1
77.5°	27.9
80°	22.6
82.5°	17.3
85°	11.6
87.5°	6.3
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	12.11	13.58	12.48	13.89	14.21	12.11	13.58	12.48	13.89	14.21
	3H	13.00	14.31	13.38	14.64	15.00	13.00	14.31	13.38	14.64	15.00
	4H	13.61	14.83	14.01	15.18	15.56	13.61	14.83	14.01	15.18	15.56
	6H	14.21	15.33	14.62	15.70	16.09	14.21	15.33	14.62	15.70	16.09
	8H	14.45	15.52	14.87	15.91	16.31	14.45	15.52	14.87	15.91	16.31
	12H	14.63	15.65	15.06	16.04	16.47	14.63	15.65	15.06	16.04	16.47
4H	2H	12.23	13.45	12.64	13.80	14.18	12.23	13.45	12.64	13.80	14.18
	3H	13.48	14.47	13.89	14.88	15.28	13.48	14.47	13.89	14.88	15.28
	4H	14.30	15.19	14.73	15.61	16.05	14.30	15.19	14.73	15.61	16.05
	6H	15.11	15.88	15.57	16.33	16.79	15.11	15.88	15.57	16.33	16.79
	8H	15.43	16.15	15.89	16.60	17.07	15.43	16.15	15.89	16.60	17.07
	12H	15.69	16.34	16.17	16.82	17.29	15.69	16.34	16.17	16.82	17.29
8H	4H	14.61	15.34	15.08	15.79	16.26	14.61	15.34	15.08	15.79	16.26
	6H	15.58	16.19	16.08	16.68	17.16	15.58	16.19	16.08	16.68	17.16
	8H	16.01	16.56	16.52	17.07	17.56	16.01	16.56	16.52	17.07	17.56
	12H	16.37	16.87	16.88	17.36	17.93	16.37	16.87	16.88	17.36	17.93
12H	4H	14.66	15.31	15.14	15.79	16.26	14.66	15.31	15.14	15.79	16.26
	6H	15.67	16.22	16.18	16.73	17.22	15.67	16.22	16.18	16.73	17.22
	8H	16.16	16.65	16.67	17.15	17.71	16.16	16.65	16.67	17.15	17.71