

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: P979503

Luminaire Tested: PRLX-240-940-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979503
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-240-940-LL1-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

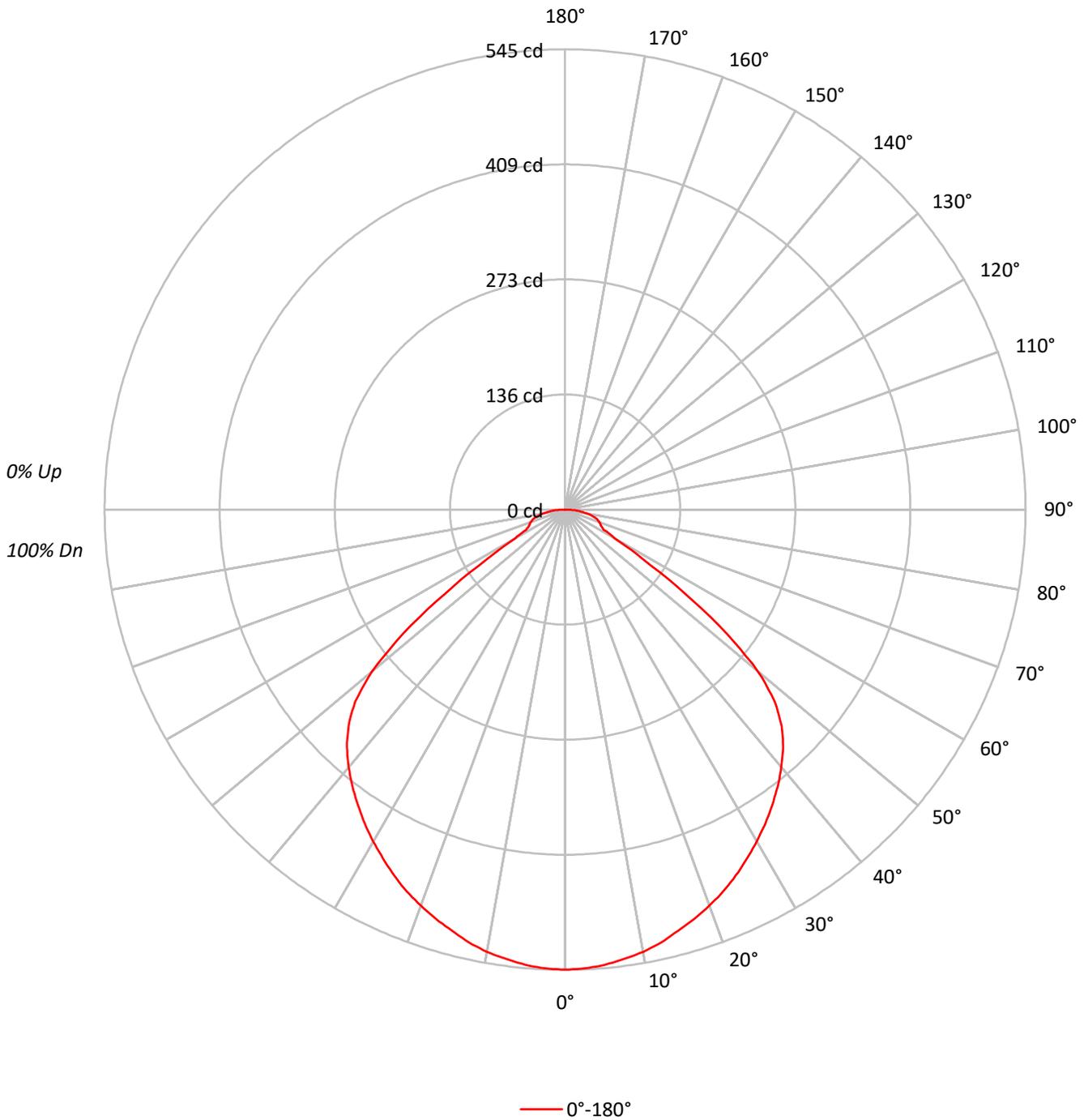
Lumens per Lamp: N/A
Luminaire Lumens: 1219.0 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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									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													100															
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88													88															
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76													76															
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66													66															
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58													58															
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51													51															
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46													46															
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41													41															
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37													37															
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33													33															
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30													30															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5485
5°	5469
10°	5438
15°	5382
20°	5348
25°	5313
30°	5276
35°	5254
40°	5233
45°	5162
50°	4674
55°	3037
60°	1371
65°	1127
70°	1275
75°	1416
80°	1484
85°	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	4.2
10°-20°	145.9	12.0
20°-30°	220.4	18.1
30°-40°	267.5	21.9
40°-50°	275.8	22.6
50°-60°	156.4	12.8
60°-70°	49.5	4.1
70°-80°	37.7	3.1
80°-90°	14.4	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°	417.7	34.3
0°-40°	685.2	56.2
0°-60°	1117.4	91.7
0°-90°	1219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	545	
5°	541	51
15°	516	146
25°	478	220
35°	427	268
45°	362	276
55°	173	156
65°	47	50
75°	36	38
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	544.7
2.5°	543.9
5°	541.1
7.5°	536.7
10°	531.9
12.5°	525.1
15°	516.3
17.5°	508.3
20°	499.1
22.5°	489.5
25°	478.2
27.5°	466.2
30°	453.8
32.5°	441.0
35°	427.4
37.5°	413.4
40°	398.1
42.5°	382.1
45°	362.5
47.5°	336.9
50°	298.4
52.5°	241.9
55°	173.0
57.5°	108.5
60°	68.1
62.5°	51.7
65°	47.3
67.5°	45.3
70°	43.3
72.5°	40.5
75°	36.4
77.5°	31.6
80°	25.6
82.5°	19.6
85°	13.2
87.5°	7.2
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	12.55	14.02	12.91	14.33	14.65	12.55	14.02	12.91	14.33	14.65
	3H	13.44	14.75	13.82	15.08	15.44	13.44	14.75	13.82	15.08	15.44
	4H	14.05	15.27	14.45	15.62	16.00	14.05	15.27	14.45	15.62	16.00
	6H	14.65	15.77	15.06	16.14	16.53	14.65	15.77	15.06	16.14	16.53
	8H	14.88	15.95	15.31	16.34	16.74	14.88	15.95	15.31	16.34	16.74
	12H	15.07	16.09	15.50	16.47	16.90	15.07	16.09	15.50	16.47	16.90
4H	2H	12.67	13.89	13.07	14.24	14.62	12.67	13.89	13.07	14.24	14.62
	3H	13.92	14.92	14.33	15.32	15.72	13.92	14.92	14.33	15.32	15.72
	4H	14.74	15.63	15.17	16.05	16.49	14.74	15.63	15.17	16.05	16.49
	6H	15.54	16.32	16.00	16.77	17.23	15.54	16.32	16.00	16.77	17.23
	8H	15.86	16.59	16.33	17.04	17.50	15.86	16.59	16.33	17.04	17.50
	12H	16.12	16.77	16.60	17.25	17.72	16.12	16.77	16.60	17.25	17.72
8H	4H	15.05	15.78	15.52	16.23	16.70	15.05	15.78	15.52	16.23	16.70
	6H	16.02	16.63	16.52	17.12	17.60	16.02	16.63	16.52	17.12	17.60
	8H	16.44	16.99	16.96	17.50	17.99	16.44	16.99	16.96	17.50	17.99
	12H	16.81	17.30	17.32	17.79	18.36	16.81	17.30	17.32	17.79	18.36
12H	4H	15.10	15.75	15.58	16.23	16.70	15.10	15.75	15.58	16.23	16.70
	6H	16.10	16.65	16.62	17.16	17.65	16.10	16.65	16.62	17.16	17.65
	8H	16.59	17.09	17.10	17.58	18.14	16.59	17.09	17.10	17.58	18.14