

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: P980483

Luminaire Tested: PRLX-243-940-LL3-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-940-LL3-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

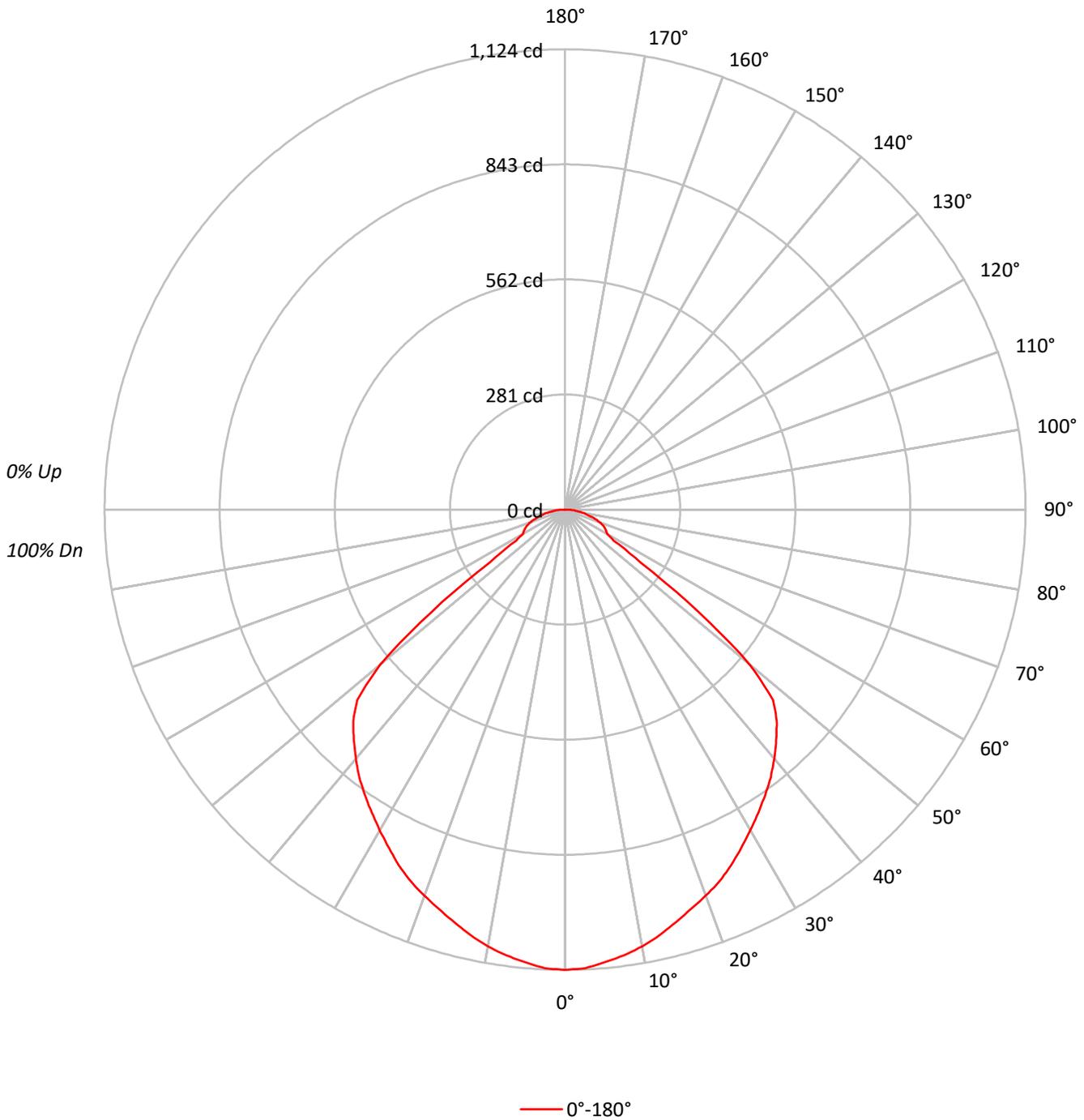
Lumens per Lamp: N/A
Luminaire Lumens: 2375.9 lumens
Efficiency: N/A
Efficacy: 158.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.35
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P980483
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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	105	101	99	100	98	95	97	95	93	93	91	90	88													88															
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77													77															
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67													67															
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59													59															
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52													52															
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46													46															
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42													42															
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	37													37															
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34													34															
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31													31															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5547
5°	5499
10°	5428
15°	5330
20°	5269
25°	5220
30°	5152
35°	5128
40°	5117
45°	5098
50°	4524
55°	1936
60°	1167
65°	1247
70°	1285
75°	1245
80°	1202
85°	1217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5098 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	4.4
10°-20°	294.7	12.4
20°-30°	441.6	18.6
30°-40°	533.1	22.4
40°-50°	554.5	23.3
50°-60°	249.5	10.5
60°-70°	104.7	4.4
70°-80°	69.2	2.9
80°-90°	23.5	1.0
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°	841.4	35.4
0°-40°	1374.5	57.9
0°-60°	2178.5	91.7
0°-90°	2375.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2375.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1124	
5°	1110	105
15°	1044	295
25°	959	442
35°	851	533
45°	731	555
55°	225	249
65°	107	105
75°	65	69
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1124.2
2.5°	1121.1
5°	1110.3
7.5°	1098.0
10°	1083.4
12.5°	1065.0
15°	1043.5
17.5°	1022.7
20°	1003.5
22.5°	983.5
25°	958.9
27.5°	931.3
30°	904.4
32.5°	877.5
35°	851.4
37.5°	824.5
40°	794.5
42.5°	763.0
45°	730.7
47.5°	688.5
50°	589.4
52.5°	411.9
55°	225.1
57.5°	140.6
60°	118.3
62.5°	113.0
65°	106.8
67.5°	99.1
70°	89.1
72.5°	77.6
75°	65.3
77.5°	53.8
80°	42.3
82.5°	31.5
85°	21.5
87.5°	12.3
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	9.69	11.14	10.06	11.46	11.77	9.69	11.14	10.06	11.46	11.77
	3H	11.79	13.07	12.16	13.40	13.76	11.79	13.07	12.16	13.40	13.76
	4H	12.61	13.82	13.01	14.16	14.55	12.61	13.82	13.01	14.16	14.55
	6H	13.26	14.37	13.67	14.74	15.13	13.26	14.37	13.67	14.74	15.13
	8H	13.50	14.55	13.92	14.94	15.34	13.50	14.55	13.92	14.94	15.34
	12H	13.68	14.68	14.11	15.06	15.49	13.68	14.68	14.11	15.06	15.49
4H	2H	10.36	11.56	10.76	11.91	12.29	10.36	11.56	10.76	11.91	12.29
	3H	12.70	13.68	13.11	14.08	14.49	12.70	13.68	13.11	14.08	14.49
	4H	13.66	14.54	14.09	14.96	15.40	13.66	14.54	14.09	14.96	15.40
	6H	14.44	15.21	14.90	15.65	16.12	14.44	15.21	14.90	15.65	16.12
	8H	14.73	15.44	15.20	15.89	16.36	14.73	15.44	15.20	15.89	16.36
	12H	14.96	15.60	15.45	16.08	16.56	14.96	15.60	15.45	16.08	16.56
8H	4H	14.01	14.73	14.48	15.17	15.64	14.01	14.73	14.48	15.17	15.64
	6H	14.94	15.53	15.44	16.02	16.50	14.94	15.53	15.44	16.02	16.50
	8H	15.31	15.85	15.83	16.36	16.85	15.31	15.85	15.83	16.36	16.85
	12H	15.65	16.13	16.16	16.62	17.19	15.65	16.13	16.16	16.62	17.19
12H	4H	14.05	14.69	14.53	15.17	15.64	14.05	14.69	14.53	15.17	15.64
	6H	15.01	15.55	15.52	16.06	16.55	15.01	15.55	15.52	16.06	16.55
	8H	15.45	15.93	15.96	16.43	16.99	15.45	15.93	15.96	16.43	16.99