

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: P979773

Luminaire Tested: PRLX-241-935-LL4-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979773  
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-241-935-LL4-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

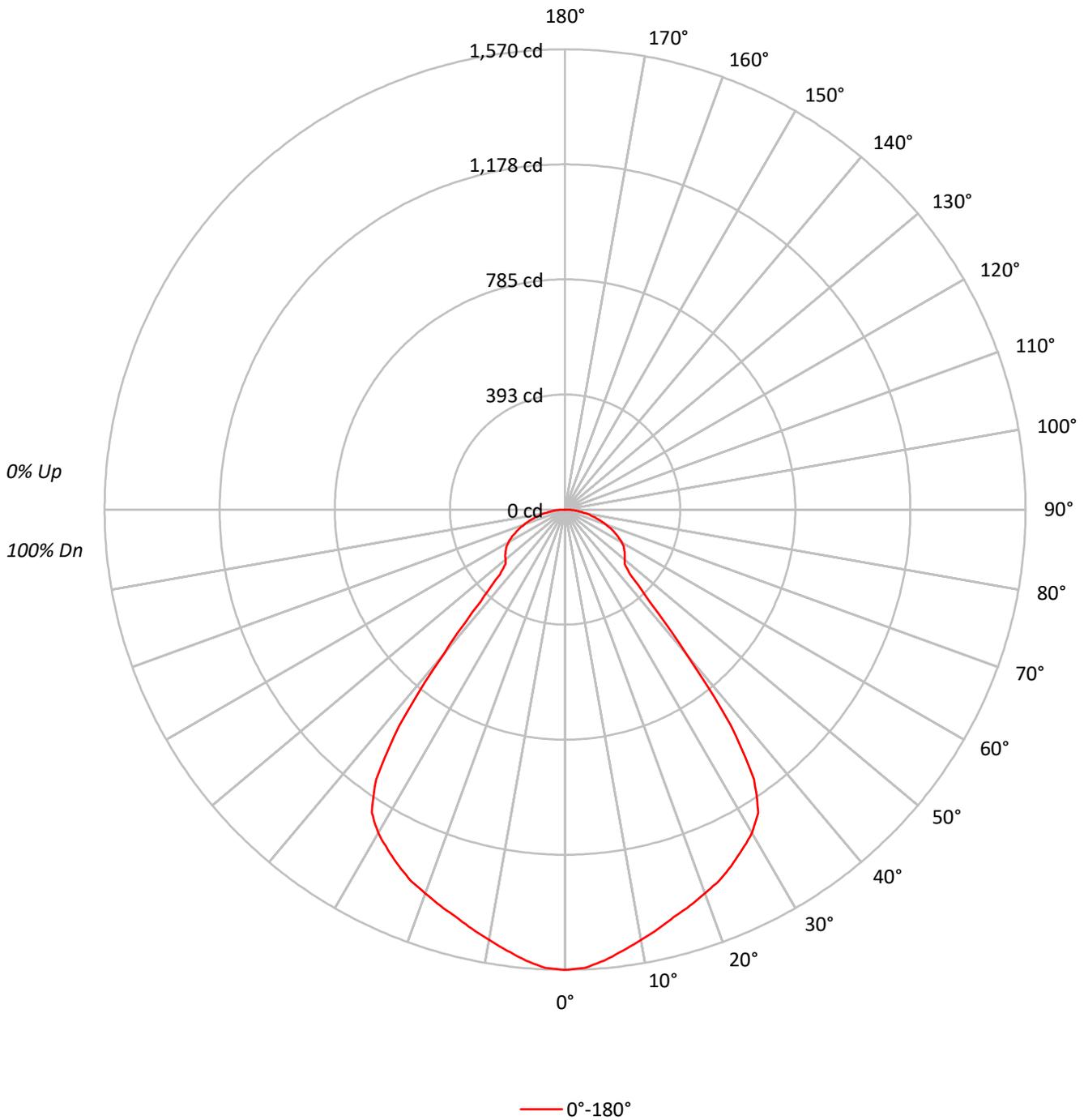
Lumens per Lamp: N/A  
Luminaire Lumens: 2662.8 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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°	12103
5°	11948
10°	11672
15°	11477
20°	11428
25°	11407
30°	11341
35°	10578
40°	6511
45°	3423
50°	3178
55°	3320
60°	3438
65°	3411
70°	3313
75°	3157
80°	2974
85°	2742

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 3439 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	5.5
10°-20°	406.9	15.3
20°-30°	617.8	23.2
30°-40°	658.3	24.7
40°-50°	281.3	10.6
50°-60°	220.6	8.3
60°-70°	184.4	6.9
70°-80°	112.4	4.2
80°-90°	35.5	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°	1170.4	44.0
0°-40°	1828.7	68.7
0°-60°	2330.6	87.5
0°-90°	2662.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1570	
5°	1544	146
15°	1438	407
25°	1341	618
35°	1124	658
45°	314	281
55°	247	221
65°	187	184
75°	106	112
85°	31	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1570
2.5°	1565
5°	1544
7.5°	1517
10°	1491
12.5°	1465
15°	1438
17.5°	1417
20°	1393
22.5°	1371
25°	1341
27.5°	1308
30°	1274
32.5°	1226
35°	1124
37.5°	929
40°	647
42.5°	427
45°	314
47.5°	275
50°	265
52.5°	257
55°	247
57.5°	237
60°	223
62.5°	206
65°	187
67.5°	167
70°	147
72.5°	126
75°	106
77.5°	87
80°	67
82.5°	49
85°	31
87.5°	17
90°	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	14.67	16.01	15.03	16.32	16.64	14.67	16.01	15.03	16.32	16.64
	3H	16.67	17.87	17.05	18.20	18.57	16.67	17.87	17.05	18.20	18.57
	4H	17.43	18.55	17.83	18.91	19.29	17.43	18.55	17.83	18.91	19.29
	6H	18.01	19.05	18.43	19.42	19.82	18.01	19.05	18.43	19.42	19.82
	8H	18.21	19.20	18.64	19.59	20.00	18.21	19.20	18.64	19.59	20.00
	12H	18.35	19.30	18.78	19.68	20.11	18.35	19.30	18.78	19.68	20.11
4H	2H	15.34	16.46	15.74	16.81	17.20	15.34	16.46	15.74	16.81	17.20
	3H	17.54	18.48	17.95	18.88	19.28	17.54	18.48	17.95	18.88	19.28
	4H	18.42	19.27	18.86	19.68	20.13	18.42	19.27	18.86	19.68	20.13
	6H	19.14	19.87	19.60	20.32	20.78	19.14	19.87	19.60	20.32	20.78
	8H	19.39	20.07	19.86	20.52	20.99	19.39	20.07	19.86	20.52	20.99
	12H	19.57	20.18	20.06	20.66	21.14	19.57	20.18	20.06	20.66	21.14
8H	4H	18.74	19.43	19.21	19.87	20.34	18.74	19.43	19.21	19.87	20.34
	6H	19.60	20.16	20.10	20.65	21.13	19.60	20.16	20.10	20.65	21.13
	8H	19.94	20.44	20.46	20.95	21.44	19.94	20.44	20.46	20.95	21.44
	12H	20.22	20.66	20.73	21.15	21.72	20.22	20.66	20.73	21.15	21.72
12H	4H	18.77	19.38	19.26	19.86	20.33	18.77	19.38	19.26	19.86	20.33
	6H	19.66	20.16	20.18	20.68	21.17	19.66	20.16	20.18	20.68	21.17
	8H	20.07	20.50	20.58	21.00	21.57	20.07	20.50	20.58	21.00	21.57