

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: P979633

Luminaire Tested: PRLX-241-927-LL6-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979633  
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-241-927-LL6-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

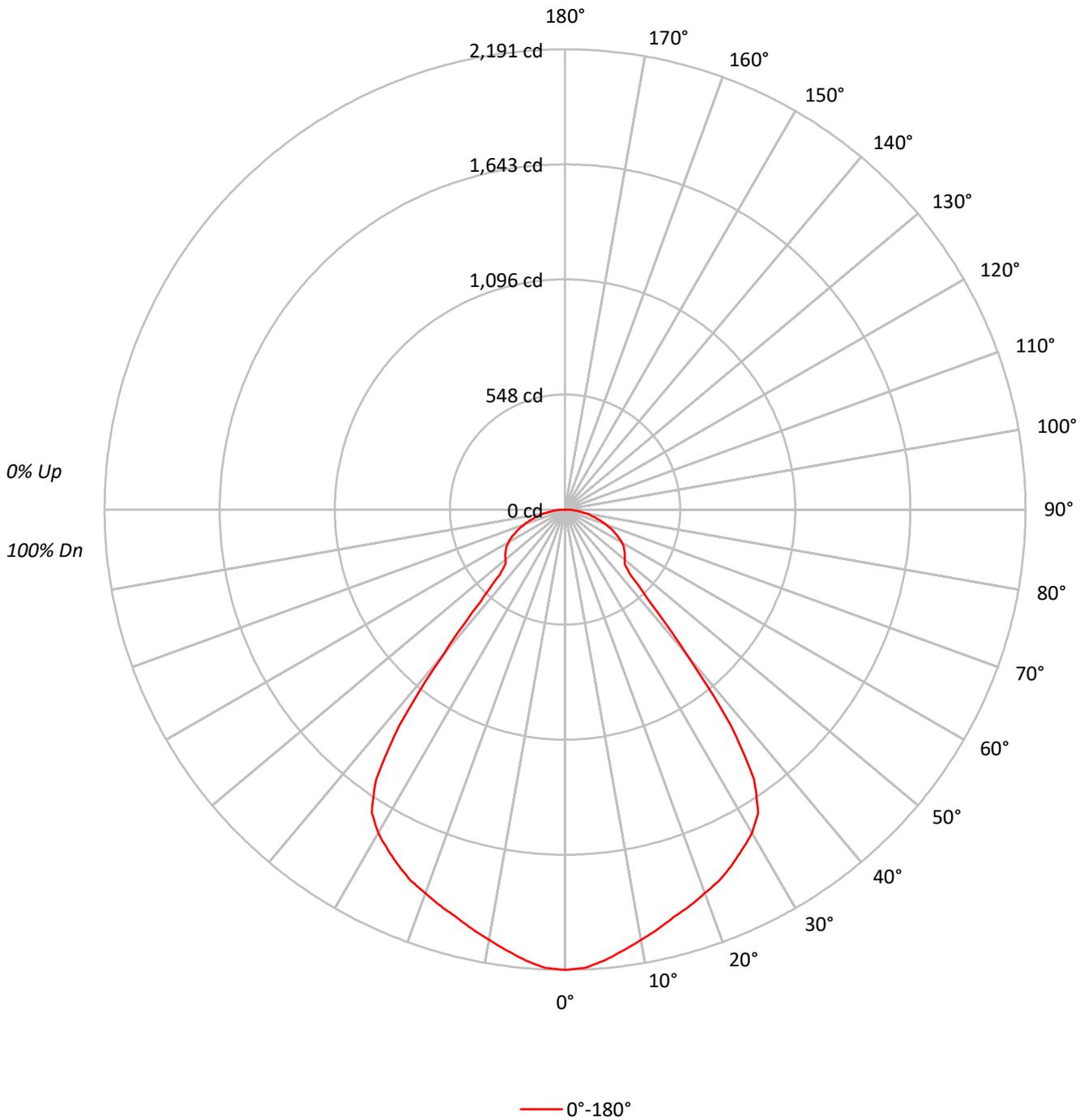
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3716.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 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): 33.5  
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			
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°	16890
5°	16674
10°	16288
15°	16016
20°	15947
25°	15918
30°	15826
35°	14761
40°	9086
45°	4777
50°	4435
55°	4633
60°	4798
65°	4761
70°	4623
75°	4405
80°	4151
85°	3830

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 4800 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	5.5
10°-20°	567.9	15.3
20°-30°	862.2	23.2
30°-40°	918.7	24.7
40°-50°	392.5	10.6
50°-60°	307.8	8.3
60°-70°	257.3	6.9
70°-80°	156.8	4.2
80°-90°	49.6	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°	1633.3	44.0
0°-40°	2552.0	68.7
0°-60°	3252.3	87.5
0°-90°	3716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3716.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2191	
5°	2155	203
15°	2007	568
25°	1871	862
35°	1568	919
45°	438	393
55°	345	308
65°	261	257
75°	148	157
85°	43	50
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2190.9
2.5°	2184.0
5°	2154.7
7.5°	2117.0
10°	2080.7
12.5°	2044.4
15°	2006.7
17.5°	1977.4
20°	1943.9
22.5°	1913.2
25°	1871.4
27.5°	1825.3
30°	1777.9
32.5°	1710.9
35°	1568.5
37.5°	1296.4
40°	902.9
42.5°	595.9
45°	438.2
47.5°	383.8
50°	369.8
52.5°	358.6
55°	344.7
57.5°	330.7
60°	311.2
62.5°	287.5
65°	261.0
67.5°	233.0
70°	205.1
72.5°	175.8
75°	147.9
77.5°	121.4
80°	93.5
82.5°	68.4
85°	43.3
87.5°	23.7
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	15.82	17.17	16.19	17.48	17.79	15.82	17.17	16.19	17.48	17.79
	3H	17.83	19.03	18.21	19.36	19.72	17.83	19.03	18.21	19.36	19.72
	4H	18.59	19.71	18.99	20.06	20.44	18.59	19.71	18.99	20.06	20.44
	6H	19.17	20.21	19.59	20.58	20.97	19.17	20.21	19.59	20.58	20.97
	8H	19.37	20.36	19.80	20.75	21.15	19.37	20.36	19.80	20.75	21.15
	12H	19.51	20.45	19.94	20.84	21.27	19.51	20.45	19.94	20.84	21.27
4H	2H	16.50	17.62	16.90	17.97	18.35	16.50	17.62	16.90	17.97	18.35
	3H	18.69	19.63	19.11	20.04	20.44	18.69	19.63	19.11	20.04	20.44
	4H	19.58	20.42	20.01	20.84	21.28	19.58	20.42	20.01	20.84	21.28
	6H	20.29	21.03	20.76	21.47	21.94	20.29	21.03	20.76	21.47	21.94
	8H	20.55	21.23	21.01	21.68	22.15	20.55	21.23	21.01	21.68	22.15
	12H	20.73	21.34	21.22	21.82	22.29	20.73	21.34	21.22	21.82	22.29
8H	4H	19.90	20.58	20.37	21.03	21.50	19.90	20.58	20.37	21.03	21.50
	6H	20.76	21.32	21.26	21.81	22.29	20.76	21.32	21.26	21.81	22.29
	8H	21.10	21.60	21.61	22.11	22.60	21.10	21.60	21.61	22.11	22.60
	12H	21.37	21.81	21.89	22.31	22.88	21.37	21.81	21.89	22.31	22.88
12H	4H	19.93	20.53	20.41	21.02	21.49	19.93	20.53	20.41	21.02	21.49
	6H	20.82	21.32	21.34	21.83	22.33	20.82	21.32	21.34	21.83	22.33
	8H	21.22	21.66	21.74	22.16	22.73	21.22	21.66	21.74	22.16	22.73