

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: P980153

Luminaire Tested: PRLX-242-940-LL2-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-242-940-LL2-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

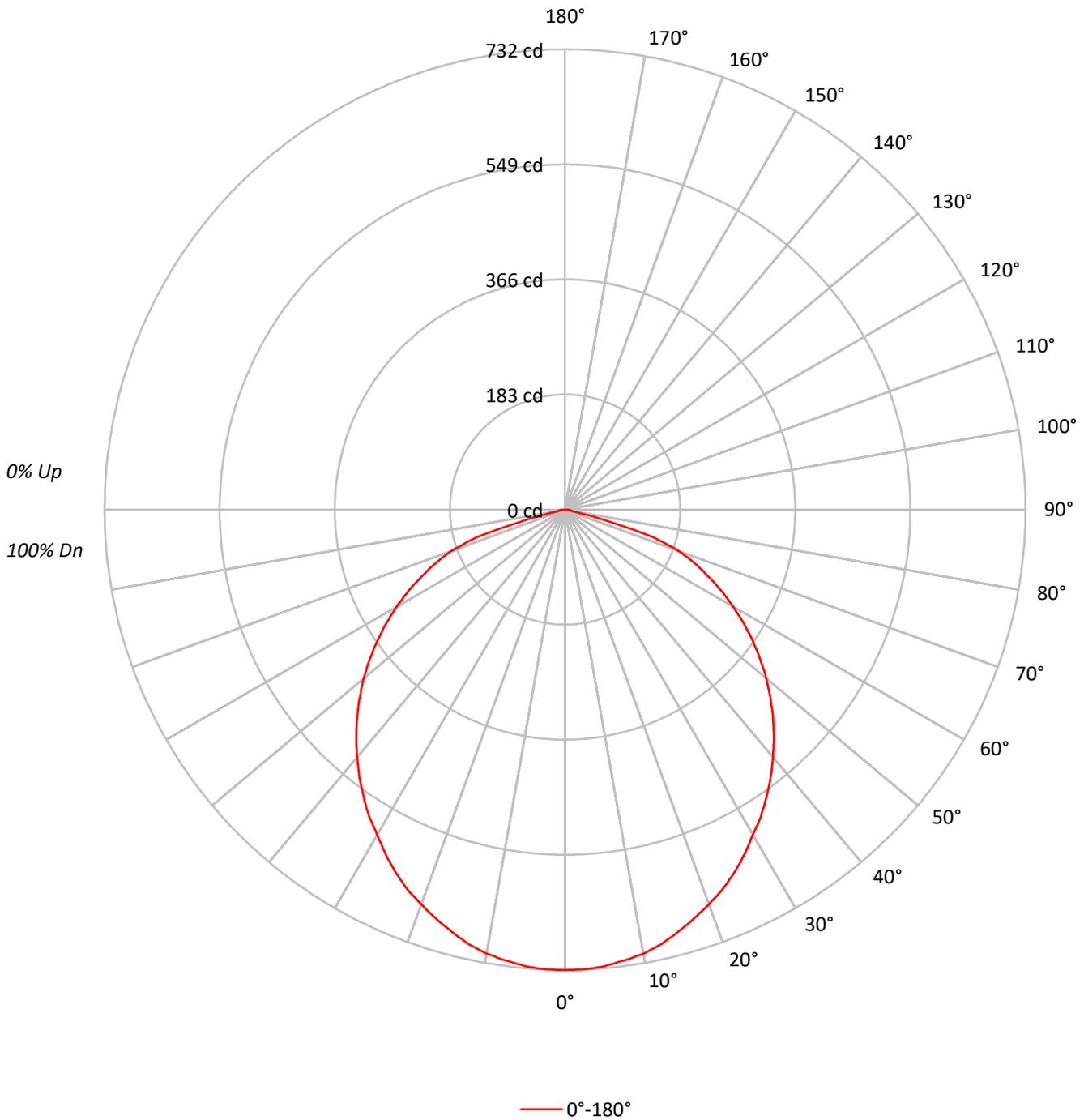
Lumens per Lamp: N/A  
Luminaire Lumens: 1932.3 lumens  
Efficiency: N/A  
Efficacy: 175.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	3278
5°	3274
10°	3259
15°	3220
20°	3182
25°	3145
30°	3086
35°	3048
40°	3003
45°	2957
50°	2907
55°	2842
60°	2762
65°	2660
70°	2512
75°	1043
80°	227
85°	359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2957 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	3.6
10°-20°	196.1	10.1
20°-30°	293.1	15.2
30°-40°	349.1	18.1
40°-50°	360.4	18.7
50°-60°	325.4	16.8
60°-70°	248.5	12.9
70°-80°	83.9	4.3
80°-90°	6.5	0.3
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°	558.4	28.9
0°-40°	907.5	47.0
0°-60°	1593.4	82.5
0°-90°	1932.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	732	
5°	729	69
15°	695	196
25°	637	293
35°	558	349
45°	467	360
55°	364	325
65°	251	249
75°	60	84
85°	7	6
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	732.5
2.5°	731.9
5°	728.9
7.5°	723.1
10°	717.2
12.5°	707.9
15°	695.0
17.5°	682.1
20°	668.1
22.5°	654.0
25°	637.0
27.5°	617.7
30°	597.2
32.5°	579.1
35°	558.0
37.5°	536.9
40°	514.1
42.5°	491.2
45°	467.2
47.5°	442.6
50°	417.5
52.5°	391.1
55°	364.2
57.5°	336.7
60°	308.6
62.5°	280.5
65°	251.2
67.5°	222.5
70°	192.0
72.5°	147.0
75°	60.3
77.5°	12.9
80°	8.8
82.5°	8.2
85°	7.0
87.5°	4.1
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	15.98	17.59	16.35	17.90	18.21	15.98	17.59	16.35	17.90	18.21
	3H	17.81	19.25	18.18	19.58	19.94	17.81	19.25	18.18	19.58	19.94
	4H	18.04	19.39	18.44	19.74	20.12	18.04	19.39	18.44	19.74	20.12
	6H	17.99	19.24	18.40	19.60	20.00	17.99	19.24	18.40	19.60	20.00
	8H	17.96	19.15	18.39	19.54	19.94	17.96	19.15	18.39	19.54	19.94
	12H	17.94	19.08	18.37	19.46	19.89	17.94	19.08	18.37	19.46	19.89
4H	2H	16.63	17.99	17.03	18.33	18.71	16.63	17.99	17.03	18.33	18.71
	3H	18.64	19.76	19.05	20.16	20.56	18.64	19.76	19.05	20.16	20.56
	4H	18.85	19.86	19.29	20.28	20.71	18.85	19.86	19.29	20.28	20.71
	6H	18.81	19.69	19.27	20.13	20.59	18.81	19.69	19.27	20.13	20.59
	8H	18.78	19.60	19.25	20.04	20.51	18.78	19.60	19.25	20.04	20.51
	12H	18.77	19.49	19.25	19.97	20.44	18.77	19.49	19.25	19.97	20.44
8H	4H	18.91	19.72	19.37	20.17	20.63	18.91	19.72	19.37	20.17	20.63
	6H	18.85	19.52	19.35	20.01	20.49	18.85	19.52	19.35	20.01	20.49
	8H	18.82	19.42	19.33	19.93	20.41	18.82	19.42	19.33	19.93	20.41
	12H	18.81	19.34	19.32	19.83	20.39	18.81	19.34	19.32	19.83	20.39
12H	4H	18.88	19.61	19.36	20.09	20.56	18.88	19.61	19.36	20.09	20.56
	6H	18.81	19.41	19.32	19.92	20.41	18.81	19.41	19.32	19.92	20.41
	8H	18.80	19.33	19.31	19.82	20.38	18.80	19.33	19.31	19.82	20.38