

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: P980133

Luminaire Tested: PRLX-242-935-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980133  
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-242-935-LL8-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

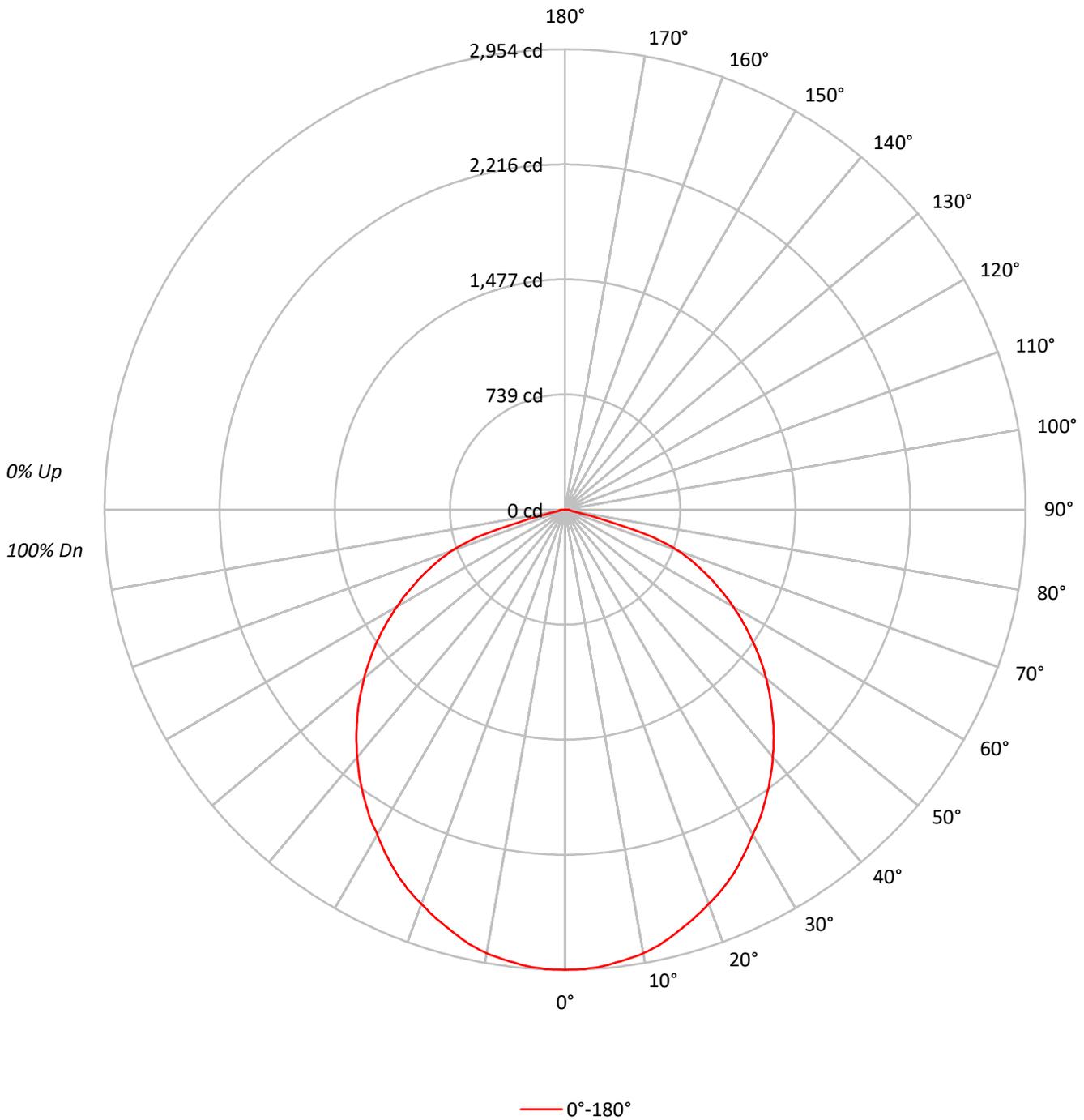
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7792.7 lumens  
Efficiency: N/A  
Efficacy: 126.7 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): 61.5  
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																		
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	100	100	100	100	100	100	100	100	100																	
	1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86	86	86	86	86	86	86	86	86	86	86																	
	2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72	72	72	72	72	72	72	72	72	72	72																	
	3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61	61	61	61	61	61	61	61	61	61	61																	
	4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52	52	52	52	52	52	52	52	52	52	52																	
	5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	45	45	45	45	45	45	45	45																	
	6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40	40	40	40	40	40	40	40	40	40	40																	
	7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35	35	35	35	35	35	35	35	35	35	35																	
	8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31	31	31	31	31	31	31	31	31	31																	
	9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28	28	28	28	28	28	28	28	28	28	28																	
	10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25	25	25	25	25	25	25	25	25	25	25																	

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

	0°
0°	13219
5°	13206
10°	13144
15°	12985
20°	12831
25°	12686
30°	12446
35°	12294
40°	12111
45°	11925
50°	11721
55°	11459
60°	11138
65°	10727
70°	10134
75°	4205
80°	912
85°	1453

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11925 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	3.6
10°-20°	790.9	10.1
20°-30°	1182.1	15.2
30°-40°	1408.0	18.1
40°-50°	1453.6	18.7
50°-60°	1312.3	16.8
60°-70°	1002.3	12.9
70°-80°	338.5	4.3
80°-90°	26.0	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°	2252.0	28.9
0°-40°	3660.0	47.0
0°-60°	6425.9	82.5
0°-90°	7792.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7792.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2954	
5°	2940	279
15°	2803	791
25°	2569	1182
35°	2250	1408
45°	1884	1454
55°	1469	1312
65°	1013	1002
75°	243	338
85°	28	26
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2954.0
2.5°	2951.6
5°	2939.8
7.5°	2916.2
10°	2892.6
12.5°	2854.8
15°	2802.8
17.5°	2750.9
20°	2694.2
22.5°	2637.6
25°	2569.1
27.5°	2491.2
30°	2408.5
32.5°	2335.3
35°	2250.3
37.5°	2165.3
40°	2073.2
42.5°	1981.1
45°	1884.3
47.5°	1785.1
50°	1683.6
52.5°	1577.3
55°	1468.7
57.5°	1357.7
60°	1244.4
62.5°	1131.1
65°	1013.0
67.5°	897.3
70°	774.5
72.5°	592.7
75°	243.2
77.5°	51.9
80°	35.4
82.5°	33.1
85°	28.3
87.5°	16.5
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	20.83	22.43	21.19	22.74	23.06	20.83	22.43	21.19	22.74	23.06
	3H	22.65	24.10	23.03	24.42	24.78	22.65	24.10	23.03	24.42	24.78
	4H	22.88	24.24	23.28	24.59	24.96	22.88	24.24	23.28	24.59	24.96
	6H	22.83	24.08	23.24	24.45	24.84	22.83	24.08	23.24	24.45	24.84
	8H	22.80	24.00	23.23	24.39	24.79	22.80	24.00	23.23	24.39	24.79
	12H	22.78	23.92	23.21	24.31	24.73	22.78	23.92	23.21	24.31	24.73
4H	2H	21.48	22.83	21.87	23.18	23.55	21.48	22.83	21.87	23.18	23.55
	3H	23.48	24.60	23.89	25.00	25.40	23.48	24.60	23.89	25.00	25.40
	4H	23.70	24.71	24.13	25.12	25.56	23.70	24.71	24.13	25.12	25.56
	6H	23.66	24.53	24.11	24.98	25.43	23.66	24.53	24.11	24.98	25.43
	8H	23.63	24.44	24.09	24.89	25.35	23.63	24.44	24.09	24.89	25.35
	12H	23.61	24.34	24.09	24.82	25.29	23.61	24.34	24.09	24.82	25.29
8H	4H	23.75	24.57	24.21	25.01	25.48	23.75	24.57	24.21	25.01	25.48
	6H	23.70	24.37	24.19	24.86	25.33	23.70	24.37	24.19	24.86	25.33
	8H	23.67	24.26	24.18	24.77	25.26	23.67	24.26	24.18	24.77	25.26
	12H	23.66	24.18	24.17	24.67	25.24	23.66	24.18	24.17	24.67	25.24
12H	4H	23.73	24.46	24.21	24.93	25.40	23.73	24.46	24.21	24.93	25.40
	6H	23.66	24.25	24.17	24.76	25.25	23.66	24.25	24.17	24.76	25.25
	8H	23.65	24.17	24.16	24.66	25.23	23.65	24.17	24.16	24.66	25.23