

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: P980053

Luminaire Tested: PRLX-242-930-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980053  
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-242-930-LL8-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

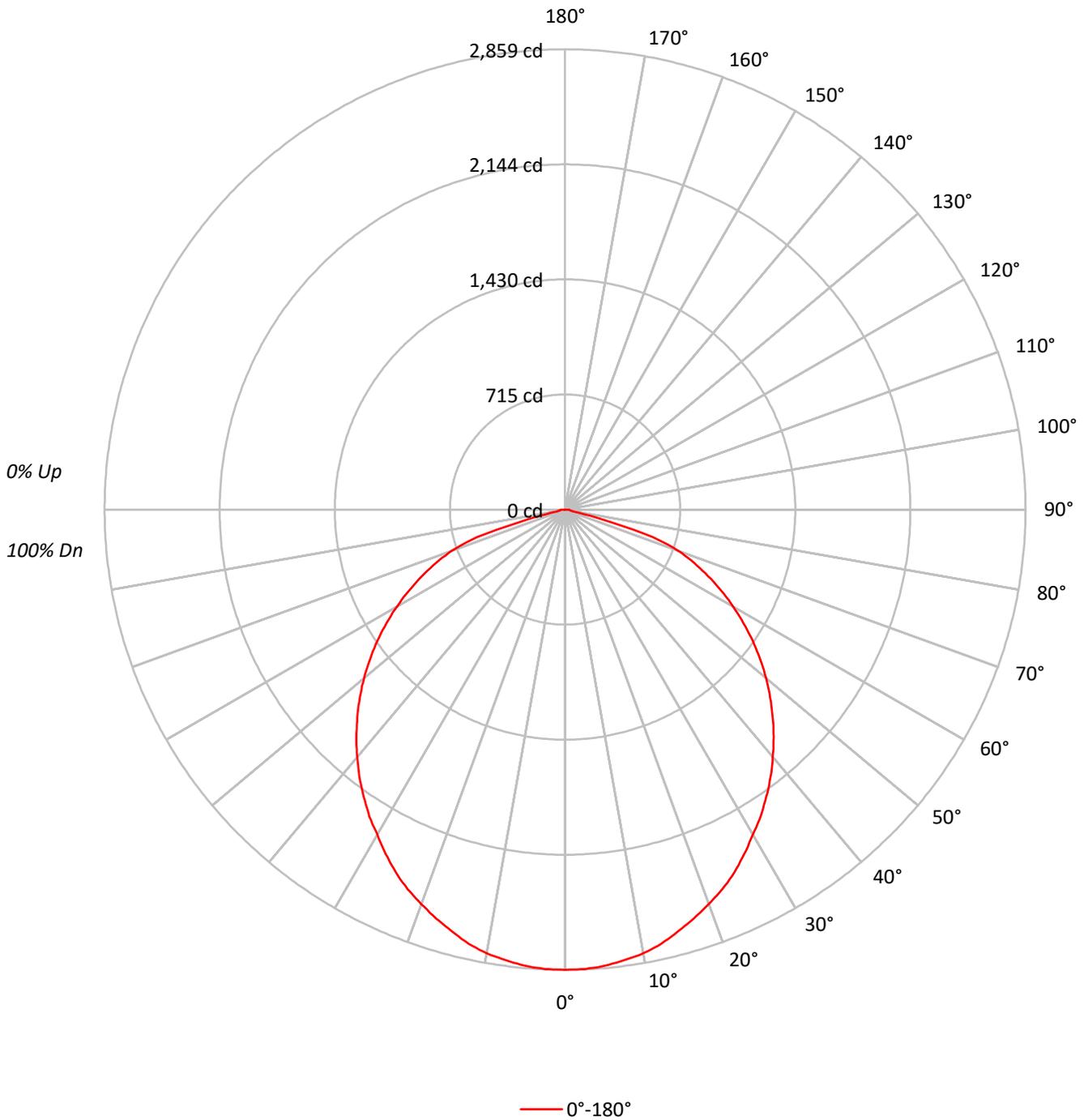
Lumens per Lamp: N/A  
Luminaire Lumens: 7542.8 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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				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°	12795
5°	12783
10°	12723
15°	12569
20°	12419
25°	12279
30°	12047
35°	11899
40°	11723
45°	11543
50°	11345
55°	11092
60°	10781
65°	10383
70°	9809
75°	4070
80°	884
85°	1407

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11543 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.0	3.6
10°-20°	765.6	10.1
20°-30°	1144.2	15.2
30°-40°	1362.9	18.1
40°-50°	1407.0	18.7
50°-60°	1270.2	16.8
60°-70°	970.1	12.9
70°-80°	327.6	4.3
80°-90°	25.2	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°	2179.8	28.9
0°-40°	3542.7	47.0
0°-60°	6219.9	82.5
0°-90°	7542.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7542.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2859	
5°	2846	270
15°	2713	766
25°	2487	1144
35°	2178	1363
45°	1824	1407
55°	1422	1270
65°	980	970
75°	235	328
85°	27	25
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2859.2
2.5°	2856.9
5°	2845.5
7.5°	2822.7
10°	2799.8
12.5°	2763.2
15°	2713.0
17.5°	2662.7
20°	2607.8
22.5°	2553.0
25°	2486.7
27.5°	2411.3
30°	2331.3
32.5°	2260.4
35°	2178.1
37.5°	2095.9
40°	2006.7
42.5°	1917.6
45°	1823.9
47.5°	1727.9
50°	1629.6
52.5°	1526.8
55°	1421.6
57.5°	1314.2
60°	1204.5
62.5°	1094.8
65°	980.5
67.5°	868.5
70°	749.7
72.5°	573.7
75°	235.4
77.5°	50.3
80°	34.3
82.5°	32.0
85°	27.4
87.5°	16.0
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	20.71	22.32	21.08	22.63	22.94	20.71	22.32	21.08	22.63	22.94
	3H	22.54	23.98	22.92	24.31	24.67	22.54	23.98	22.92	24.31	24.67
	4H	22.77	24.13	23.17	24.47	24.85	22.77	24.13	23.17	24.47	24.85
	6H	22.72	23.97	23.13	24.34	24.73	22.72	23.97	23.13	24.34	24.73
	8H	22.69	23.88	23.12	24.27	24.67	22.69	23.88	23.12	24.27	24.67
	12H	22.67	23.81	23.10	24.19	24.62	22.67	23.81	23.10	24.19	24.62
4H	2H	21.36	22.72	21.76	23.06	23.44	21.36	22.72	21.76	23.06	23.44
	3H	23.37	24.49	23.78	24.89	25.29	23.37	24.49	23.78	24.89	25.29
	4H	23.59	24.59	24.02	25.01	25.45	23.59	24.59	24.02	25.01	25.45
	6H	23.55	24.42	24.00	24.86	25.32	23.55	24.42	24.00	24.86	25.32
	8H	23.51	24.33	23.98	24.77	25.24	23.51	24.33	23.98	24.77	25.24
	12H	23.50	24.23	23.98	24.70	25.17	23.50	24.23	23.98	24.70	25.17
8H	4H	23.64	24.45	24.10	24.90	25.36	23.64	24.45	24.10	24.90	25.36
	6H	23.59	24.25	24.08	24.74	25.22	23.59	24.25	24.08	24.74	25.22
	8H	23.55	24.15	24.07	24.66	25.15	23.55	24.15	24.07	24.66	25.15
	12H	23.54	24.07	24.05	24.56	25.12	23.54	24.07	24.05	24.56	25.12
12H	4H	23.61	24.34	24.10	24.82	25.29	23.61	24.34	24.10	24.82	25.29
	6H	23.54	24.14	24.06	24.65	25.14	23.54	24.14	24.06	24.65	25.14
	8H	23.53	24.06	24.04	24.55	25.11	23.53	24.06	24.04	24.55	25.11