

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: P980023

Luminaire Tested: PRLX-242-930-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980023
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-LL5-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

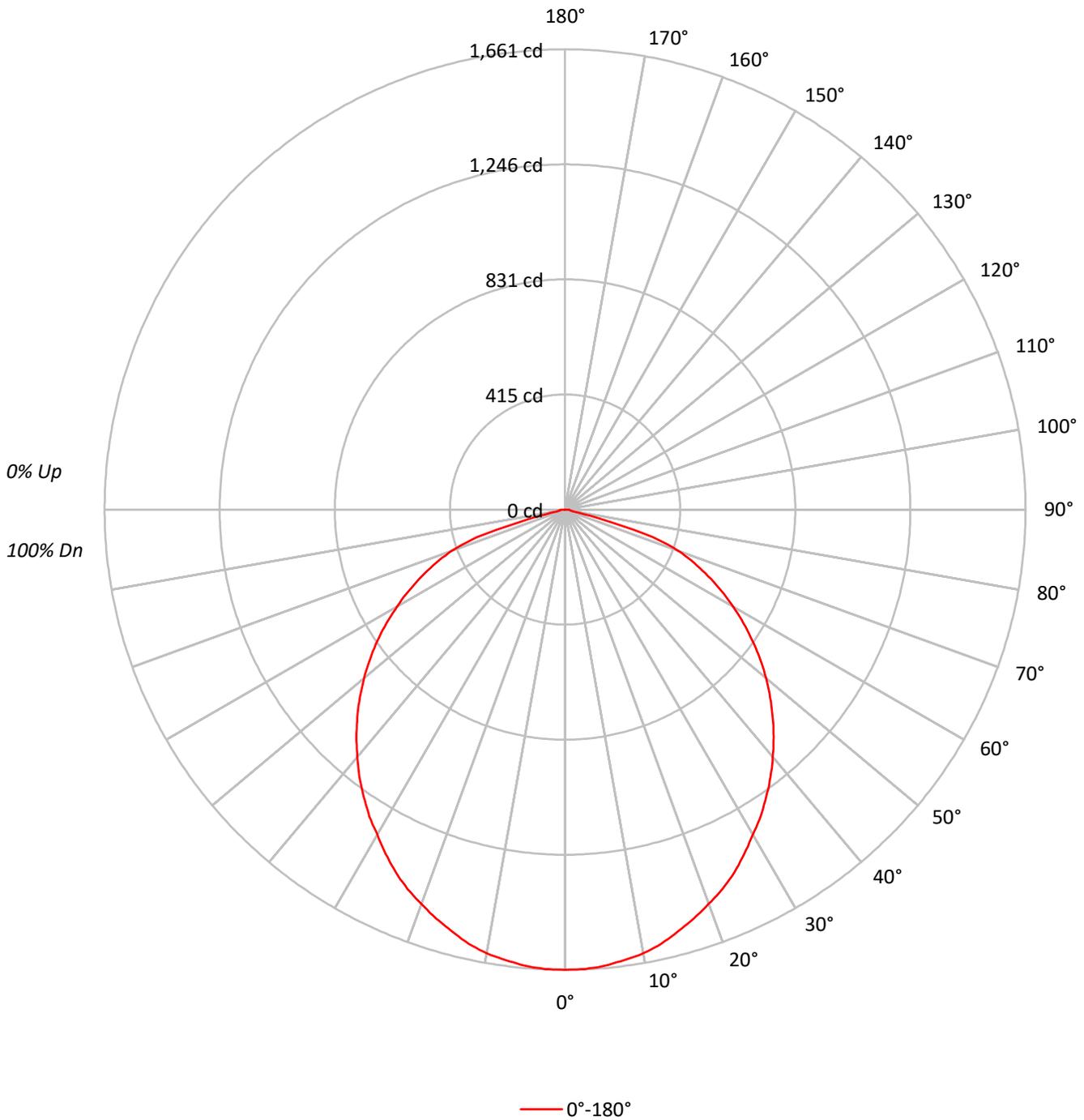
Lumens per Lamp: N/A
Luminaire Lumens: 4381.7 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	3.6
10°-20°	444.7	10.1
20°-30°	664.7	15.2
30°-40°	791.7	18.1
40°-50°	817.3	18.7
50°-60°	737.9	16.8
60°-70°	563.6	12.9
70°-80°	190.3	4.3
80°-90°	14.6	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°	1266.3	28.9
0°-40°	2058.0	47.0
0°-60°	3613.2	82.5
0°-90°	4381.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4381.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1661	
5°	1653	157
15°	1576	445
25°	1445	665
35°	1265	792
45°	1060	817
55°	826	738
65°	570	564
75°	137	190
85°	16	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1661.0
2.5°	1659.6
5°	1653.0
7.5°	1639.7
10°	1626.4
12.5°	1605.2
15°	1576.0
17.5°	1546.8
20°	1514.9
22.5°	1483.1
25°	1444.6
27.5°	1400.7
30°	1354.3
32.5°	1313.1
35°	1265.3
37.5°	1217.5
40°	1165.7
42.5°	1114.0
45°	1059.5
47.5°	1003.8
50°	946.7
52.5°	886.9
55°	825.8
57.5°	763.4
60°	699.7
62.5°	636.0
65°	569.6
67.5°	504.5
70°	435.5
72.5°	333.3
75°	136.8
77.5°	29.2
80°	19.9
82.5°	18.6
85°	15.9
87.5°	9.3
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	18.82	20.43	19.19	20.74	21.06	18.82	20.43	19.19	20.74	21.06
	3H	20.65	22.09	21.03	22.42	22.78	20.65	22.09	21.03	22.42	22.78
	4H	20.88	22.24	21.28	22.59	22.96	20.88	22.24	21.28	22.59	22.96
	6H	20.83	22.08	21.24	22.45	22.84	20.83	22.08	21.24	22.45	22.84
	8H	20.80	22.00	21.23	22.39	22.79	20.80	22.00	21.23	22.39	22.79
	12H	20.78	21.92	21.21	22.30	22.73	20.78	21.92	21.21	22.30	22.73
4H	2H	19.47	20.83	19.87	21.18	21.55	19.47	20.83	19.87	21.18	21.55
	3H	21.48	22.60	21.89	23.00	23.40	21.48	22.60	21.89	23.00	23.40
	4H	21.70	22.71	22.13	23.12	23.56	21.70	22.71	22.13	23.12	23.56
	6H	21.66	22.53	22.11	22.98	23.43	21.66	22.53	22.11	22.98	23.43
	8H	21.63	22.44	22.09	22.89	23.35	21.63	22.44	22.09	22.89	23.35
	12H	21.61	22.34	22.09	22.82	23.29	21.61	22.34	22.09	22.82	23.29
8H	4H	21.75	22.57	22.21	23.01	23.48	21.75	22.57	22.21	23.01	23.48
	6H	21.70	22.37	22.19	22.86	23.33	21.70	22.37	22.19	22.86	23.33
	8H	21.67	22.26	22.18	22.77	23.26	21.67	22.26	22.18	22.77	23.26
	12H	21.66	22.18	22.17	22.67	23.24	21.66	22.18	22.17	22.67	23.24
12H	4H	21.73	22.46	22.21	22.93	23.40	21.73	22.46	22.21	22.93	23.40
	6H	21.66	22.25	22.17	22.76	23.25	21.66	22.25	22.17	22.76	23.25
	8H	21.65	22.17	22.16	22.66	23.23	21.65	22.17	22.16	22.66	23.23