

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: P980331

Luminaire Tested: PRLX-243-930-LL4-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-930-LL4-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

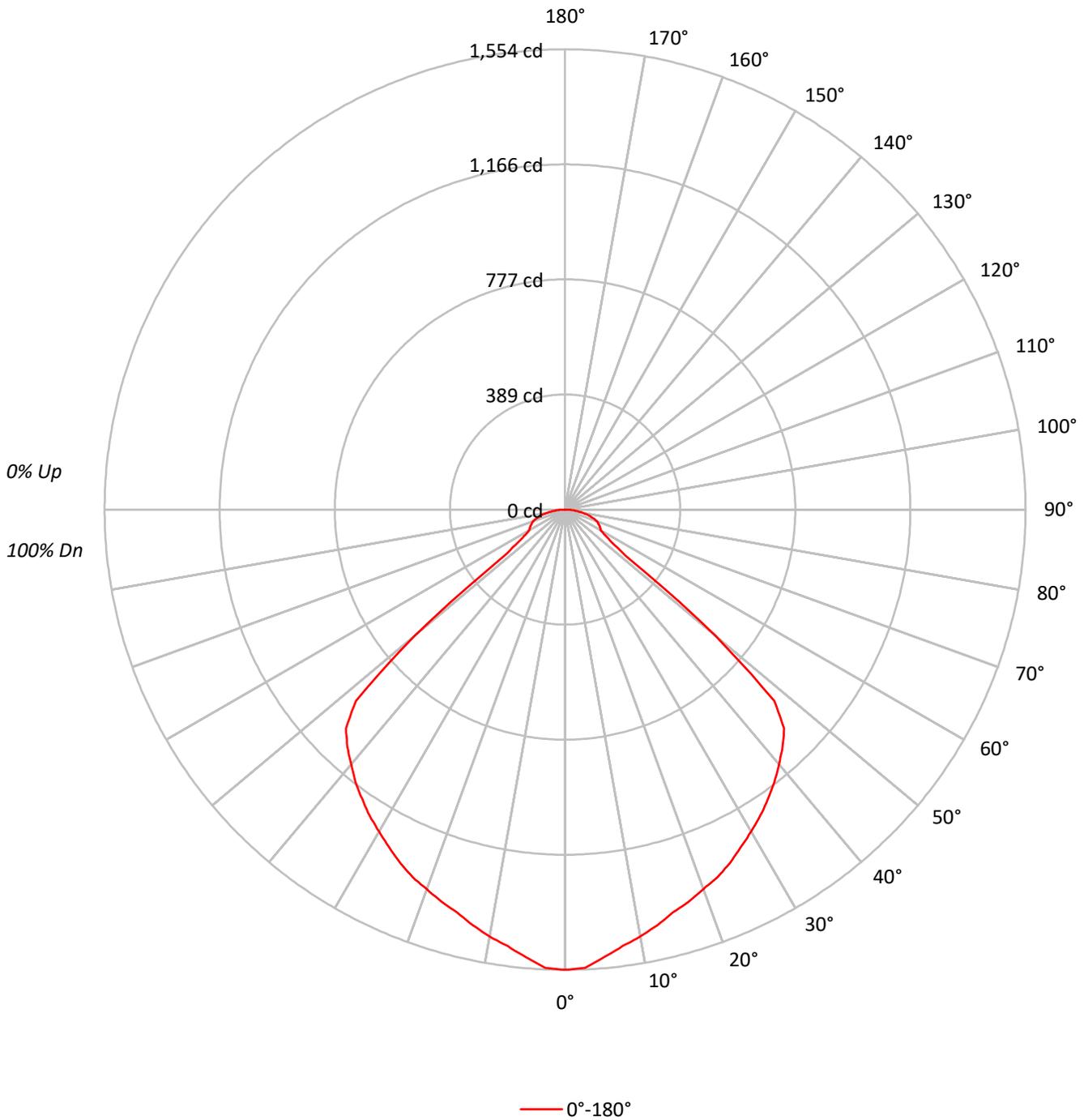
Lumens per Lamp: N/A
Luminaire Lumens: 3135.4 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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	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
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	65	75	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53				53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48				48
7	71	59	51	46	70	58	51	46	57	50	45	56	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39				39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7665
5°	7512
10°	7332
15°	7193
20°	7161
25°	7166
30°	7152
35°	7189
40°	7232
45°	7294
50°	5067
55°	1648
60°	1376
65°	1492
70°	1633
75°	1697
80°	1622
85°	1642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7294 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	4.6
10°-20°	398.8	12.7
20°-30°	606.6	19.3
30°-40°	747.4	23.8
40°-50°	766.8	24.5
50°-60°	222.8	7.1
60°-70°	126.1	4.0
70°-80°	92.2	2.9
80°-90°	31.7	1.0
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°	1148.4	36.6
0°-40°	1895.9	60.5
0°-60°	2885.4	92.0
0°-90°	3135.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3135.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1554	
5°	1517	143
15°	1408	399
25°	1316	607
35°	1194	747
45°	1045	767
55°	192	223
65°	128	126
75°	89	92
85°	29	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1553.5
2.5°	1548.7
5°	1516.7
7.5°	1486.7
10°	1463.5
12.5°	1437.4
15°	1408.3
17.5°	1388.0
20°	1363.8
22.5°	1343.5
25°	1316.4
27.5°	1285.4
30°	1255.4
32.5°	1226.4
35°	1193.5
37.5°	1160.5
40°	1122.8
42.5°	1087.0
45°	1045.4
47.5°	957.3
50°	660.1
52.5°	259.4
55°	191.6
57.5°	157.8
60°	139.4
62.5°	133.6
65°	127.8
67.5°	121.0
70°	113.2
72.5°	102.6
75°	89.0
77.5°	72.6
80°	57.1
82.5°	42.6
85°	29.0
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	9.60	11.01	9.97	11.33	11.64	9.60	11.01	9.97	11.33	11.64
	3H	12.02	13.28	12.40	13.61	13.97	12.02	13.28	12.40	13.61	13.97
	4H	13.08	14.25	13.48	14.60	14.98	13.08	14.25	13.48	14.60	14.98
	6H	13.86	14.94	14.28	15.31	15.70	13.86	14.94	14.28	15.31	15.70
	8H	14.14	15.16	14.57	15.55	15.96	14.14	15.16	14.57	15.55	15.96
	12H	14.35	15.33	14.79	15.72	16.15	14.35	15.33	14.79	15.72	16.15
4H	2H	10.35	11.52	10.75	11.87	12.25	10.35	11.52	10.75	11.87	12.25
	3H	13.04	14.00	13.45	14.40	14.81	13.04	14.00	13.45	14.40	14.81
	4H	14.23	15.09	14.67	15.51	15.95	14.23	15.09	14.67	15.51	15.95
	6H	15.15	15.89	15.61	16.34	16.80	15.15	15.89	15.61	16.34	16.80
	8H	15.48	16.17	15.94	16.62	17.09	15.48	16.17	15.94	16.62	17.09
	12H	15.74	16.36	16.23	16.84	17.32	15.74	16.36	16.23	16.84	17.32
8H	4H	14.66	15.35	15.12	15.80	16.27	14.66	15.35	15.12	15.80	16.27
	6H	15.71	16.29	16.21	16.78	17.26	15.71	16.29	16.21	16.78	17.26
	8H	16.13	16.66	16.65	17.17	17.66	16.13	16.66	16.65	17.17	17.66
	12H	16.50	16.97	17.02	17.46	18.03	16.50	16.97	17.02	17.46	18.03
12H	4H	14.70	15.32	15.19	15.81	16.28	14.70	15.32	15.19	15.81	16.28
	6H	15.80	16.32	16.31	16.83	17.32	15.80	16.32	16.31	16.83	17.32
	8H	16.29	16.76	16.80	17.25	17.82	16.29	16.76	16.80	17.25	17.82