

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979381

Luminaire Tested: PRLX-240-930-43L-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

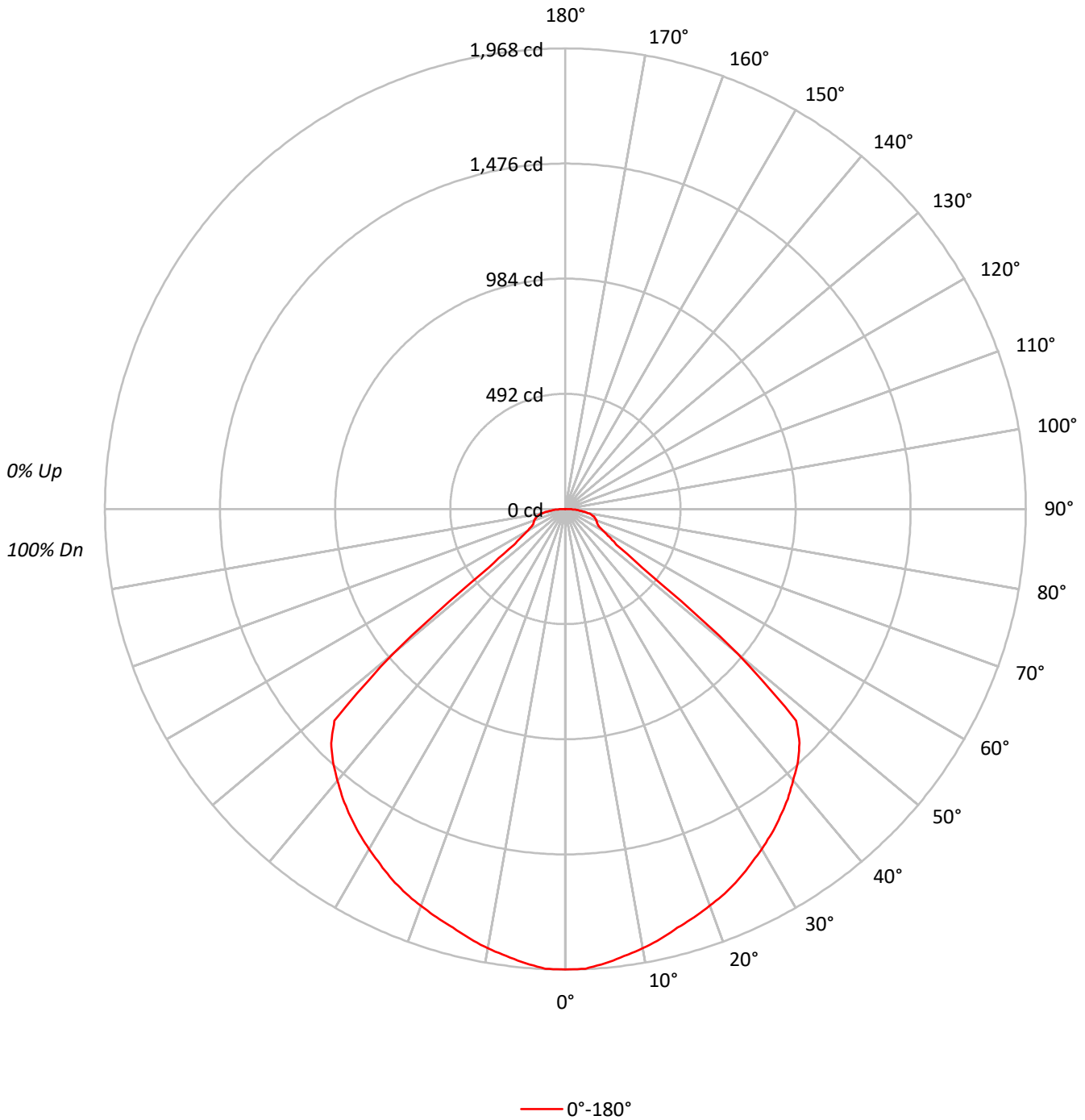
Test Method: LM-79-2019  
Report Number: P979381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-930-43L-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4234.8 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43  
Luminous Opening: Circular (Dia: 1.17' 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

TEST NUMBER: P979381  
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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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	100																
	1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88	88	88	88	88	88	88	88	88	88																
	2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77	77	77	77	77	77	77	77	77	77	77	77																
	3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68	68	68	68	68	68	68	68	68	68	68	68	68															
	4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60	60	60	60	60	60	60	60	60	60	60	60	60															
	5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53	53	53	53	53	53	53	53	53	53	53	53	53															
	6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47	47	47	47	47	47	47	47	47	47															
	7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42	42	42	42	42	42	42	42	42	42	42	42	42															
	8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38	38	38	38	38	38	38	38	38	38	38	38	38															
	9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35	35	35	35	35	35	35	35	35	35	35	35	35															
	10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32	32	32	32	32	32	32	32	32	32	32	32	32															

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

	0°	19813
	5°	19700
	10°	19494
	15°	19308
	20°	19335
	25°	19427
	30°	19512
	35°	19698
	40°	19912
	45°	20153
	50°	15058
	55°	4685
	60°	3744
	65°	3607
	70°	4142
	75°	4906
	80°	5619
	85°	5522

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20153 cd/sqm

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CATALOG NUMBER: PRLX-240-930-43L-C-U-S-WHTE-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.6	4.4
10°-20°	524.3	12.4
20°-30°	806.2	19.0
30°-40°	1003.6	23.7
40°-50°	1052.8	24.9
50°-60°	325.5	7.7
60°-70°	154.3	3.6
70°-80°	130.3	3.1
80°-90°	53.3	1.3
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°	1515.0	35.8
0°-40°	2518.6	59.5
0°-60°	3896.9	92.0
0°-90°	4234.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1968	
5°	1949	185
15°	1852	524
25°	1749	806
35°	1602	1004
45°	1415	1053
55°	267	325
65°	151	154
75°	126	130
85°	48	53
90°	0	

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CATALOG NUMBER: PRLX-240-930-43L-C-U-S-WHTE-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1967.7
2.5°	1966.3
5°	1949.1
7.5°	1926.5
10°	1906.6
12.5°	1881.4
15°	1852.2
17.5°	1829.6
20°	1804.4
22.5°	1779.1
25°	1748.6
27.5°	1712.7
30°	1678.2
32.5°	1642.4
35°	1602.5
37.5°	1561.4
40°	1514.9
42.5°	1469.8
45°	1415.3
47.5°	1338.3
50°	961.3
52.5°	412.9
55°	266.9
57.5°	221.7
60°	185.9
62.5°	162.0
65°	151.4
67.5°	146.0
70°	140.7
72.5°	134.1
75°	126.1
77.5°	114.2
80°	96.9
82.5°	73.0
85°	47.8
87.5°	26.6
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	13.36	14.78	13.72	15.10	15.41	13.36	14.78	13.72	15.10	15.41
	3H	15.32	16.59	15.70	16.91	17.28	15.32	16.59	15.70	16.91	17.28
	4H	16.48	17.66	16.88	18.01	18.39	16.48	17.66	16.88	18.01	18.39
	6H	17.61	18.70	18.02	19.07	19.46	17.61	18.70	18.02	19.07	19.46
	8H	18.04	19.07	18.47	19.46	19.86	18.04	19.07	18.47	19.46	19.86
	12H	18.34	19.33	18.77	19.71	20.14	18.34	19.33	18.77	19.71	20.14
4H	2H	13.87	15.05	14.27	15.40	15.78	13.87	15.05	14.27	15.40	15.78
	3H	16.23	17.20	16.64	17.60	18.01	16.23	17.20	16.64	17.60	18.01
	4H	17.61	18.48	18.05	18.90	19.34	17.61	18.48	18.05	18.90	19.34
	6H	18.94	19.69	19.40	20.14	20.60	18.94	19.69	19.40	20.14	20.60
	8H	19.43	20.14	19.90	20.59	21.05	19.43	20.14	19.90	20.59	21.05
	12H	19.80	20.43	20.29	20.91	21.39	19.80	20.43	20.29	20.91	21.39
8H	4H	18.14	18.85	18.61	19.30	19.77	18.14	18.85	18.61	19.30	19.77
	6H	19.65	20.24	20.15	20.73	21.21	19.65	20.24	20.15	20.73	21.21
	8H	20.25	20.79	20.77	21.30	21.79	20.25	20.79	20.77	21.30	21.79
	12H	20.73	21.21	21.24	21.70	22.27	20.73	21.21	21.24	21.70	22.27
12H	4H	18.24	18.87	18.72	19.35	19.82	18.24	18.87	18.72	19.35	19.82
	6H	19.79	20.32	20.30	20.83	21.32	19.79	20.32	20.30	20.83	21.32
	8H	20.47	20.95	20.98	21.44	22.01	20.47	20.95	20.98	21.44	22.01