

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: P979391

Luminaire Tested: PRLX-240-930-48L-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

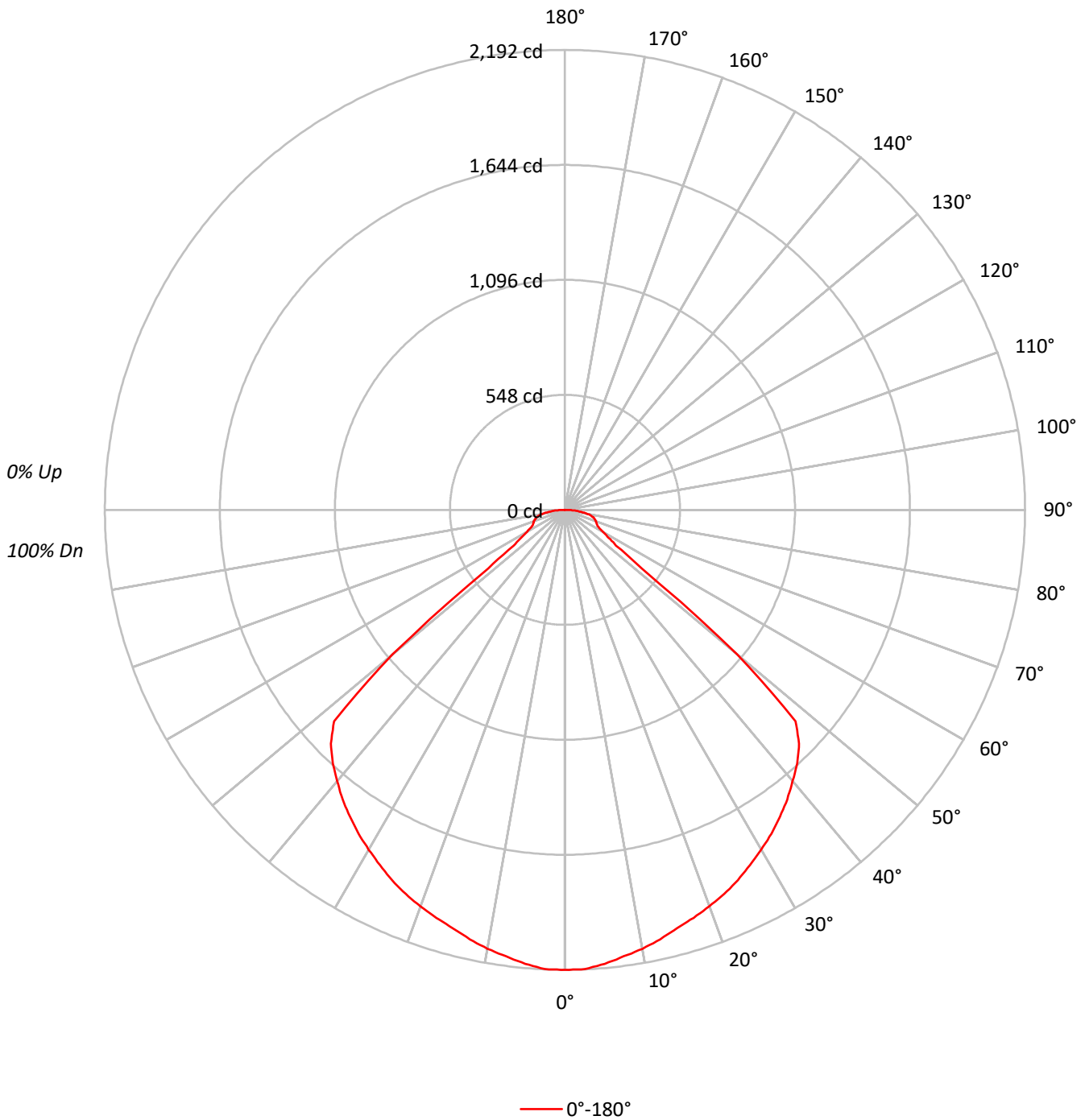
Test Method: LM-79-2019  
Report Number: P979391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-930-48L-C-U-S-WHTE-X  
Description: 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: 4718.7 lumens  
Efficiency: N/A  
Efficacy: 140.9 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): 33.5  
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: P979391  
CATALOG NUMBER: PRLX-240-930-48L-C-U-S-WHTE-X

### Luminous Intensity Polar Plot





TEST NUMBER: P979391

CATALOG NUMBER: PRLX-240-930-48L-C-U-S-WHTE-X

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

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

	0°
0°	22076
5°	21951
10°	21721
15°	21513
20°	21543
25°	21647
30°	21742
35°	21950
40°	22187
45°	22457
50°	16778
55°	5221
60°	4171
65°	4019
70°	4616
75°	5466
80°	6262
85°	6158

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22457 cd/sqm

TEST NUMBER: P979391

CATALOG NUMBER: PRLX-240-930-48L-C-U-S-WHTE-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.7	4.4
10°-20°	584.1	12.4
20°-30°	898.3	19.0
30°-40°	1118.3	23.7
40°-50°	1173.1	24.9
50°-60°	362.7	7.7
60°-70°	171.9	3.6
70°-80°	145.2	3.1
80°-90°	59.4	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°	1688.1	35.8
0°-40°	2806.4	59.5
0°-60°	4342.2	92.0
0°-90°	4718.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4718.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2192	
5°	2172	206
15°	2064	584
25°	1948	898
35°	1786	1118
45°	1577	1173
55°	297	363
65°	169	172
75°	140	145
85°	53	59
90°	0	

TEST NUMBER: P979391

CATALOG NUMBER: PRLX-240-930-48L-C-U-S-WHTE-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2192.5
2.5°	2191.0
5°	2171.8
7.5°	2146.6
10°	2124.4
12.5°	2096.3
15°	2063.8
17.5°	2038.6
20°	2010.5
22.5°	1982.4
25°	1948.4
27.5°	1908.5
30°	1870.0
32.5°	1830.0
35°	1785.7
37.5°	1739.8
40°	1688.0
42.5°	1637.7
45°	1577.1
47.5°	1491.3
50°	1071.1
52.5°	460.1
55°	297.4
57.5°	247.1
60°	207.1
62.5°	180.5
65°	168.7
67.5°	162.7
70°	156.8
72.5°	149.4
75°	140.5
77.5°	127.2
80°	108.0
82.5°	81.4
85°	53.3
87.5°	29.6
90°	0.0



TEST NUMBER: P979391  
 CATALOG NUMBER: PRLX-240-930-48L-C-U-S-WHTE-X

**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	13.73	15.16	14.10	15.47	15.79	13.73	15.16	14.10	15.47	15.79
	3H	15.70	16.96	16.08	17.29	17.65	15.70	16.96	16.08	17.29	17.65
	4H	16.86	18.04	17.26	18.39	18.77	16.86	18.04	17.26	18.39	18.77
	6H	17.99	19.08	18.40	19.44	19.84	17.99	19.08	18.40	19.44	19.84
	8H	18.41	19.45	18.84	19.84	20.24	18.41	19.45	18.84	19.84	20.24
	12H	18.72	19.71	19.15	20.09	20.52	18.72	19.71	19.15	20.09	20.52
4H	2H	14.24	15.43	14.64	15.77	16.16	14.24	15.43	14.64	15.77	16.16
	3H	16.61	17.58	17.02	17.98	18.38	16.61	17.58	17.02	17.98	18.38
	4H	17.99	18.86	18.42	19.27	19.72	17.99	18.86	18.42	19.27	19.72
	6H	19.31	20.07	19.77	20.51	20.97	19.31	20.07	19.77	20.51	20.97
	8H	19.81	20.52	20.28	20.96	21.43	19.81	20.52	20.28	20.96	21.43
	12H	20.18	20.81	20.66	21.29	21.76	20.18	20.81	20.66	21.29	21.76
8H	4H	18.52	19.23	18.99	19.67	20.14	18.52	19.23	18.99	19.67	20.14
	6H	20.02	20.61	20.52	21.11	21.58	20.02	20.61	20.52	21.11	21.58
	8H	20.63	21.16	21.15	21.67	22.16	20.63	21.16	21.15	21.67	22.16
	12H	21.11	21.59	21.62	22.08	22.65	21.11	21.59	21.62	22.08	22.65
12H	4H	18.61	19.25	19.10	19.73	20.20	18.61	19.25	19.10	19.73	20.20
	6H	20.16	20.70	20.68	21.21	21.70	20.16	20.70	20.68	21.21	21.70
	8H	20.85	21.32	21.36	21.82	22.38	20.85	21.32	21.36	21.82	22.38