

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: P865473

Luminaire Tested: PRLX-2001-S-930-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-15L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

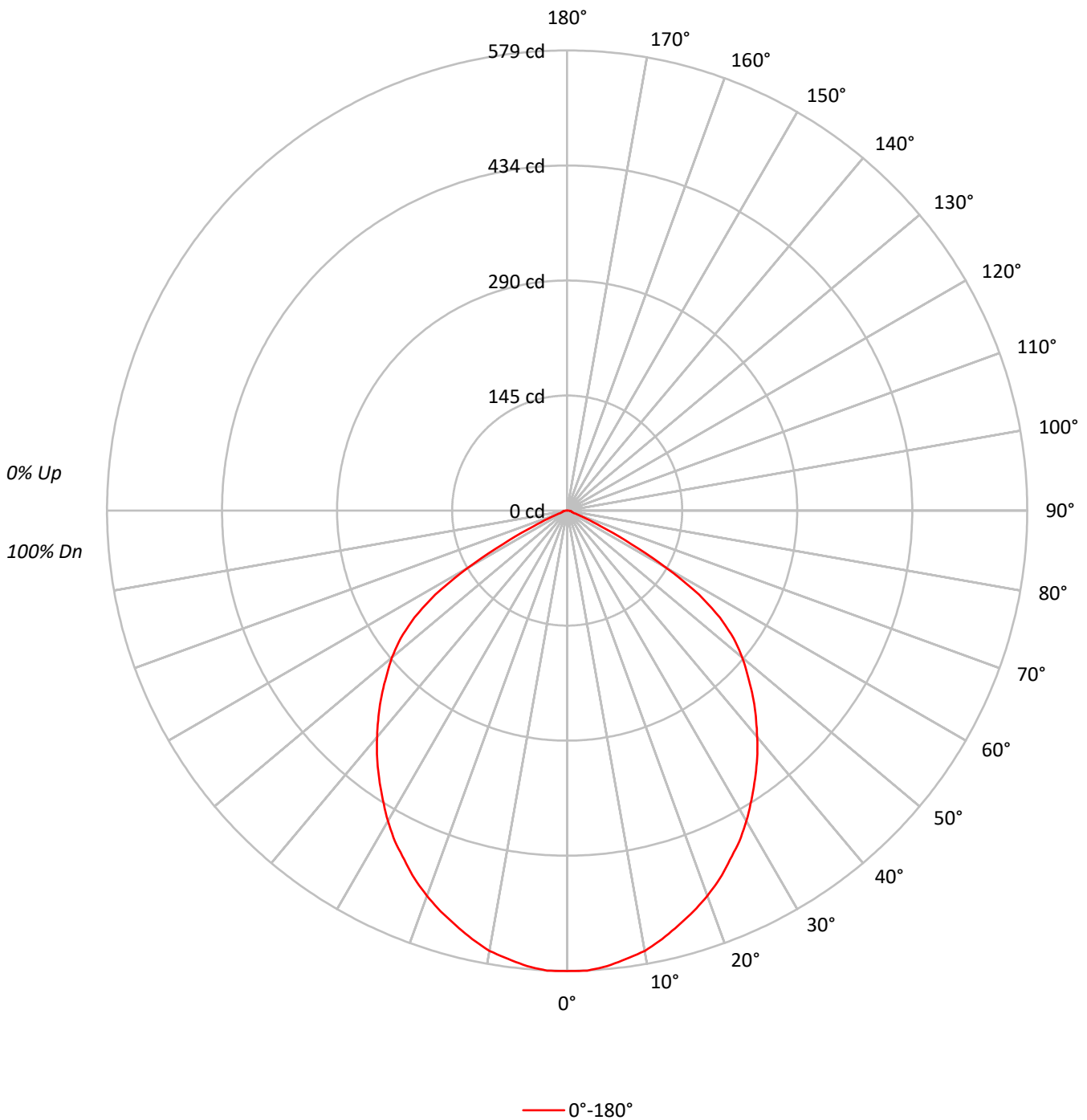
Lumens per Lamp: N/A
Luminaire Lumens: 1213.9 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865473

CATALOG NUMBER: PRLX-2001-S-930-15L-L-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P865473

CATALOG NUMBER: PRLX-2001-S-930-15L-L-U-S-X-X-BRSS-X

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9450
5°	9422
10°	9318
15°	9127
20°	8954
25°	8725
30°	8496
35°	8207
40°	7920
45°	7623
50°	7303
55°	6671
60°	4736
65°	1802
70°	434
75°	410
80°	488
85°	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7623 cd/sqm

TEST NUMBER: P865473

CATALOG NUMBER: PRLX-2001-S-930-15L-L-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	4.5
10°-20°	152.5	12.6
20°-30°	223.5	18.4
30°-40°	257.9	21.2
40°-50°	254.7	21.0
50°-60°	203.5	16.8
60°-70°	57.5	4.7
70°-80°	6.7	0.6
80°-90°	3.2	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°	430.5	35.5
0°-40°	688.3	56.7
0°-60°	1146.5	94.4
0°-90°	1213.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	579	
5°	576	54
15°	540	152
25°	485	224
35°	412	258
45°	330	255
55°	235	203
65°	47	58
75°	6	7
85°	4	3
90°	0	

TEST NUMBER: P865473

CATALOG NUMBER: PRLX-2001-S-930-15L-L-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	579.4
2.5°	579.4
5°	575.5
7.5°	569.0
10°	562.6
12.5°	552.2
15°	540.5
17.5°	528.9
20°	515.9
22.5°	501.6
25°	484.8
27.5°	469.2
30°	451.1
32.5°	431.6
35°	412.2
37.5°	392.8
40°	372.0
42.5°	351.3
45°	330.5
47.5°	308.5
50°	287.8
52.5°	264.4
55°	234.6
57.5°	197.0
60°	145.2
62.5°	90.7
65°	46.7
67.5°	20.7
70°	9.1
72.5°	6.5
75°	6.5
77.5°	5.2
80°	5.2
82.5°	3.9
85°	3.9
87.5°	1.3
90°	0.0



TEST NUMBER: P865473
 CATALOG NUMBER: PRLX-2001-S-930-15L-L-U-S-X-X-BRSS-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	18.46	19.92	18.82	20.23	20.54	18.46	19.92	18.82	20.23	20.54
	3H	18.38	19.67	18.76	20.00	20.36	18.38	19.67	18.76	20.00	20.36
	4H	18.33	19.52	18.73	19.87	20.25	18.33	19.52	18.73	19.87	20.25
	6H	18.27	19.37	18.68	19.74	20.13	18.27	19.37	18.68	19.74	20.13
	8H	18.24	19.28	18.66	19.67	20.07	18.24	19.28	18.66	19.67	20.07
	12H	18.21	19.21	18.64	19.59	20.02	18.21	19.21	18.64	19.59	20.02
4H	2H	18.38	19.58	18.79	19.93	20.31	18.38	19.58	18.79	19.93	20.31
	3H	18.32	19.29	18.73	19.69	20.09	18.32	19.29	18.73	19.69	20.09
	4H	18.26	19.12	18.69	19.54	19.98	18.26	19.12	18.69	19.54	19.98
	6H	18.21	18.95	18.67	19.39	19.86	18.21	18.95	18.67	19.39	19.86
	8H	18.17	18.86	18.63	19.31	19.78	18.17	18.86	18.63	19.31	19.78
	12H	18.14	18.76	18.63	19.24	19.71	18.14	18.76	18.63	19.24	19.71
8H	4H	18.14	18.84	18.61	19.28	19.75	18.14	18.84	18.61	19.28	19.75
	6H	18.07	18.65	18.57	19.14	19.62	18.07	18.65	18.57	19.14	19.62
	8H	18.03	18.55	18.55	19.06	19.55	18.03	18.55	18.55	19.06	19.55
	12H	18.02	18.48	18.53	18.97	19.54	18.02	18.48	18.53	18.97	19.54
12H	4H	18.10	18.72	18.59	19.20	19.67	18.10	18.72	18.59	19.20	19.67
	6H	18.02	18.54	18.54	19.05	19.54	18.02	18.54	18.54	19.05	19.54
	8H	18.00	18.46	18.51	18.95	19.52	18.00	18.46	18.51	18.95	19.52