

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: P865907

Luminaire Tested: PRLX-2001-M-927-15L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-15L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

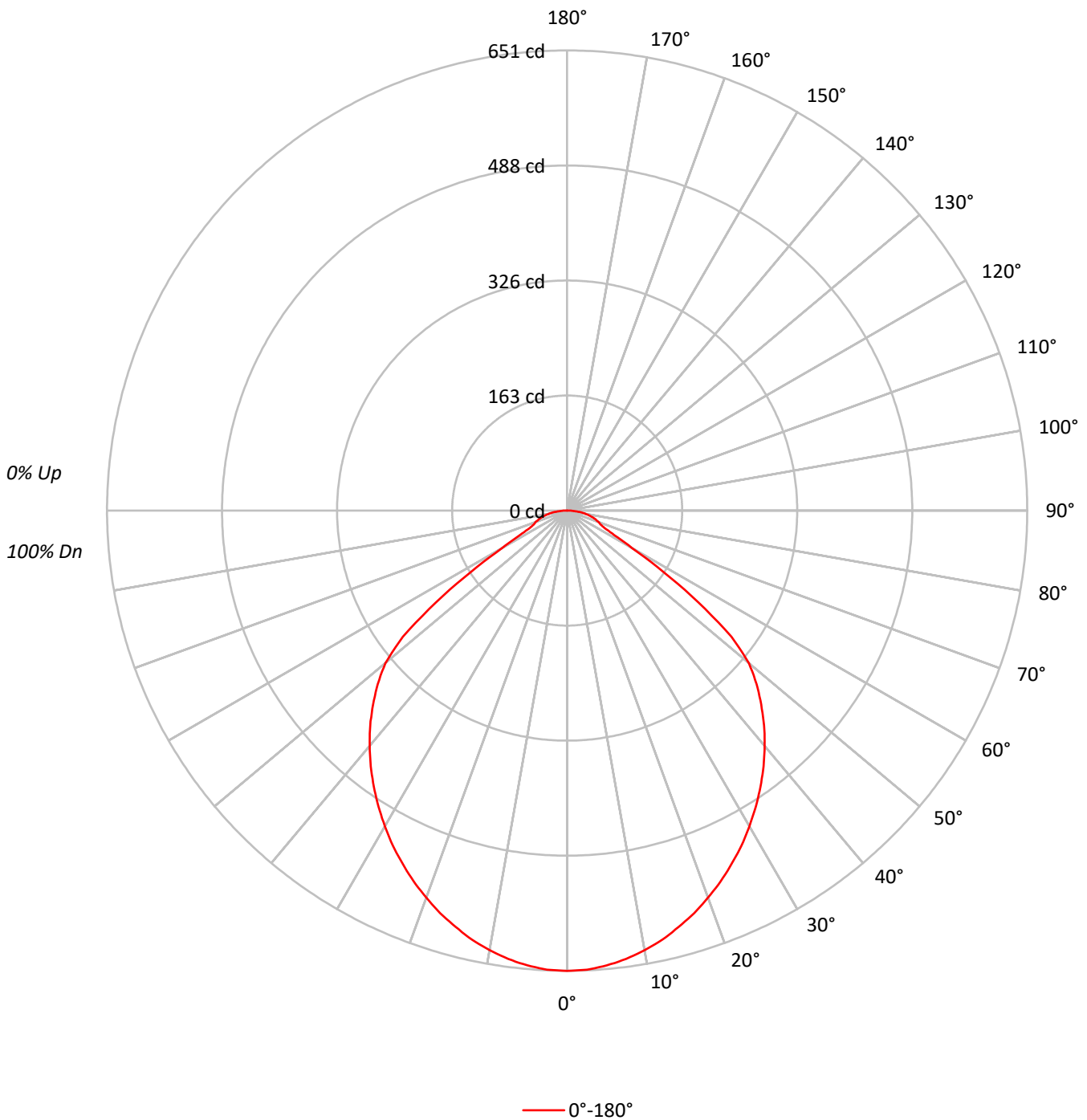
Lumens per Lamp: N/A
Luminaire Lumens: 1402.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865907

CATALOG NUMBER: PRLX-2001-M-927-15L-L-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P865907

CATALOG NUMBER: PRLX-2001-M-927-15L-L-U-S-X-X-WHHR-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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5526
5°	5502
10°	5441
15°	5356
20°	5262
25°	5160
30°	5053
35°	4940
40°	4814
45°	4659
50°	4432
55°	3355
60°	1802
65°	1163
70°	1171
75°	1236
80°	1285
85°	1295

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4659 cd/sqm

TEST NUMBER: P865907

CATALOG NUMBER: PRLX-2001-M-927-15L-L-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	4.4
10°-20°	171.9	12.3
20°-30°	254.0	18.1
30°-40°	298.2	21.3
40°-50°	298.9	21.3
50°-60°	200.2	14.3
60°-70°	64.3	4.6
70°-80°	39.3	2.8
80°-90°	14.6	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°	487.1	34.7
0°-40°	785.3	56.0
0°-60°	1284.4	91.6
0°-90°	1402.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	651	
5°	646	61
15°	610	172
25°	551	254
35°	477	298
45°	388	299
55°	227	200
65°	58	64
75°	38	39
85°	13	15
90°	0	

TEST NUMBER: P865907

CATALOG NUMBER: PRLX-2001-M-927-15L-L-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	651.2
2.5°	650.1
5°	645.9
7.5°	639.8
10°	631.4
12.5°	621.9
15°	609.7
17.5°	597.2
20°	582.7
22.5°	567.8
25°	551.1
27.5°	534.4
30°	515.7
32.5°	496.7
35°	476.9
37.5°	456.3
40°	434.6
42.5°	412.6
45°	388.2
47.5°	363.5
50°	335.7
52.5°	293.1
55°	226.8
57.5°	161.0
60°	106.2
62.5°	75.0
65°	57.9
67.5°	51.0
70°	47.2
72.5°	42.6
75°	37.7
77.5°	32.0
80°	26.3
82.5°	20.2
85°	13.3
87.5°	6.9
90°	0.0



TEST NUMBER: P865907
 CATALOG NUMBER: PRLX-2001-M-927-15L-L-U-S-X-X-WHHR-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	14.22	15.69	14.58	16.01	16.32	14.22	15.69	14.58	16.01	16.32
	3H	14.70	16.01	15.08	16.34	16.70	14.70	16.01	15.08	16.34	16.70
	4H	15.02	16.24	15.42	16.59	16.97	15.02	16.24	15.42	16.59	16.97
	6H	15.35	16.48	15.76	16.84	17.24	15.35	16.48	15.76	16.84	17.24
	8H	15.49	16.56	15.92	16.95	17.35	15.49	16.56	15.92	16.95	17.35
	12H	15.59	16.62	16.03	17.00	17.43	15.59	16.62	16.03	17.00	17.43
4H	2H	14.25	15.48	14.66	15.83	16.21	14.25	15.48	14.66	15.83	16.21
	3H	14.96	15.96	15.37	16.37	16.77	14.96	15.96	15.37	16.37	16.77
	4H	15.44	16.33	15.87	16.75	17.19	15.44	16.33	15.87	16.75	17.19
	6H	15.94	16.72	16.40	17.16	17.62	15.94	16.72	16.40	17.16	17.62
	8H	16.15	16.88	16.61	17.32	17.79	16.15	16.88	16.61	17.32	17.79
	12H	16.32	16.97	16.80	17.45	17.92	16.32	16.97	16.80	17.45	17.92
8H	4H	15.60	16.33	16.07	16.77	17.24	15.60	16.33	16.07	16.77	17.24
	6H	16.23	16.84	16.73	17.33	17.81	16.23	16.84	16.73	17.33	17.81
	8H	16.53	17.08	17.05	17.59	18.08	16.53	17.08	17.05	17.59	18.08
	12H	16.80	17.29	17.31	17.78	18.35	16.80	17.29	17.31	17.78	18.35
12H	4H	15.62	16.27	16.10	16.75	17.22	15.62	16.27	16.10	16.75	17.22
	6H	16.28	16.83	16.79	17.34	17.83	16.28	16.83	16.79	17.34	17.83
	8H	16.64	17.13	17.15	17.62	18.19	16.64	17.13	17.15	17.62	18.19