

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: P866687

Luminaire Tested: PRLX-2001-L-927-15L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-15L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

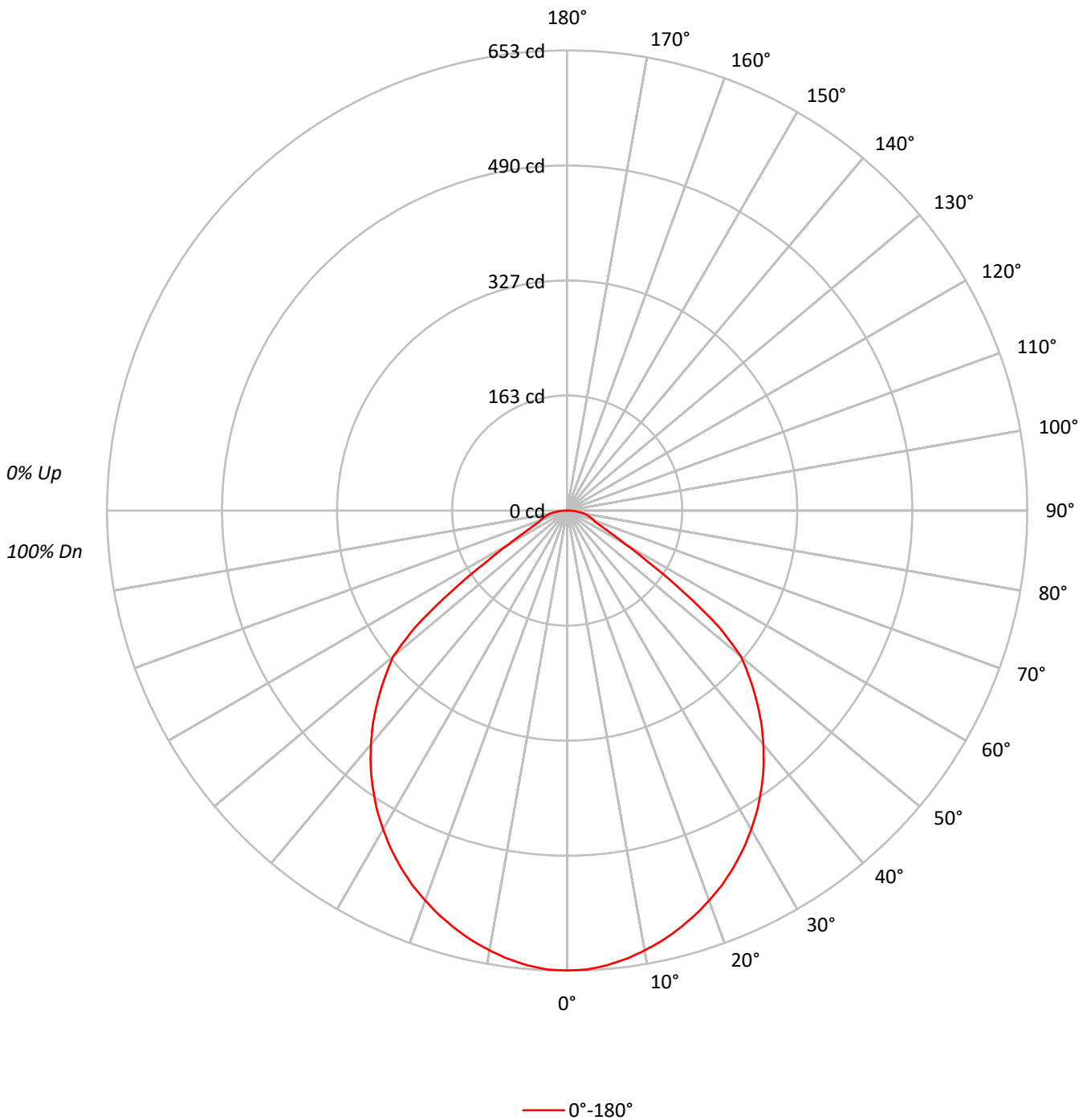
Lumens per Lamp: N/A
Luminaire Lumens: 1372.2 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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: P866687

CATALOG NUMBER: PRLX-2001-L-927-15L-L-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866687

CATALOG NUMBER: PRLX-2001-L-927-15L-L-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	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62		71	66	62		69	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	63	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3568
5°	3555
10°	3518
15°	3475
20°	3426
25°	3369
30°	3298
35°	3207
40°	3090
45°	2936
50°	2740
55°	1924
60°	1042
65°	709
70°	644
75°	684
80°	737
85°	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2936 cd/sqm

TEST NUMBER: P866687

CATALOG NUMBER: PRLX-2001-L-927-15L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	4.5
10°-20°	173.1	12.6
20°-30°	257.2	18.7
30°-40°	300.3	21.9
40°-50°	292.3	21.3
50°-60°	181.9	13.3
60°-70°	58.6	4.3
70°-80°	34.0	2.5
80°-90°	13.3	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°	491.7	35.8
0°-40°	792.0	57.7
0°-60°	1266.2	92.3
0°-90°	1372.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	653	
5°	648	61
15°	614	173
25°	559	257
35°	481	300
45°	380	292
55°	202	182
65°	55	59
75°	32	34
85°	13	13
90°	0	

TEST NUMBER: P866687

CATALOG NUMBER: PRLX-2001-L-927-15L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	652.6
2.5°	651.8
5°	647.8
7.5°	641.7
10°	633.8
12.5°	624.8
15°	614.0
17.5°	602.3
20°	588.9
22.5°	574.8
25°	558.6
27.5°	541.3
30°	522.5
32.5°	502.7
35°	480.6
37.5°	458.1
40°	433.0
42.5°	407.5
45°	379.8
47.5°	351.0
50°	322.2
52.5°	272.0
55°	201.9
57.5°	137.6
60°	95.3
62.5°	71.2
65°	54.8
67.5°	43.9
70°	40.3
72.5°	36.4
75°	32.4
77.5°	28.1
80°	23.4
82.5°	18.3
85°	12.6
87.5°	6.3
90°	0.0

TEST NUMBER: P866687

CATALOG NUMBER: PRLX-2001-L-927-15L-L-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	11.72	13.18	12.09	13.49	13.80	11.72	13.18	12.09	13.49	13.80
	3H	12.20	13.49	12.58	13.82	14.18	12.20	13.49	12.58	13.82	14.18
	4H	12.52	13.73	12.93	14.08	14.46	12.52	13.73	12.93	14.08	14.46
	6H	12.87	13.98	13.29	14.35	14.74	12.87	13.98	13.29	14.35	14.74
	8H	13.03	14.08	13.46	14.47	14.87	13.03	14.08	13.46	14.47	14.87
	12H	13.16	14.16	13.59	14.54	14.97	13.16	14.16	13.59	14.54	14.97
4H	2H	11.80	13.01	12.21	13.36	13.74	11.80	13.01	12.21	13.36	13.74
	3H	12.50	13.48	12.91	13.88	14.29	12.50	13.48	12.91	13.88	14.29
	4H	12.97	13.85	13.40	14.27	14.71	12.97	13.85	13.40	14.27	14.71
	6H	13.49	14.26	13.95	14.70	15.16	13.49	14.26	13.95	14.70	15.16
	8H	13.72	14.44	14.19	14.88	15.35	13.72	14.44	14.19	14.88	15.35
	12H	13.92	14.56	14.41	15.04	15.51	13.92	14.56	14.41	15.04	15.51
8H	4H	13.13	13.85	13.60	14.29	14.76	13.13	13.85	13.60	14.29	14.76
	6H	13.80	14.39	14.30	14.89	15.37	13.80	14.39	14.30	14.89	15.37
	8H	14.13	14.66	14.64	15.18	15.66	14.13	14.66	14.64	15.18	15.66
	12H	14.43	14.91	14.95	15.41	15.97	14.43	14.91	14.95	15.41	15.97
12H	4H	13.15	13.79	13.63	14.27	14.74	13.15	13.79	13.63	14.27	14.74
	6H	13.85	14.39	14.37	14.90	15.39	13.85	14.39	14.37	14.90	15.39
	8H	14.24	14.72	14.75	15.22	15.78	14.24	14.72	14.75	15.22	15.78