

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: P866951

Luminaire Tested: PRLX-2002-L-927-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-927-32L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

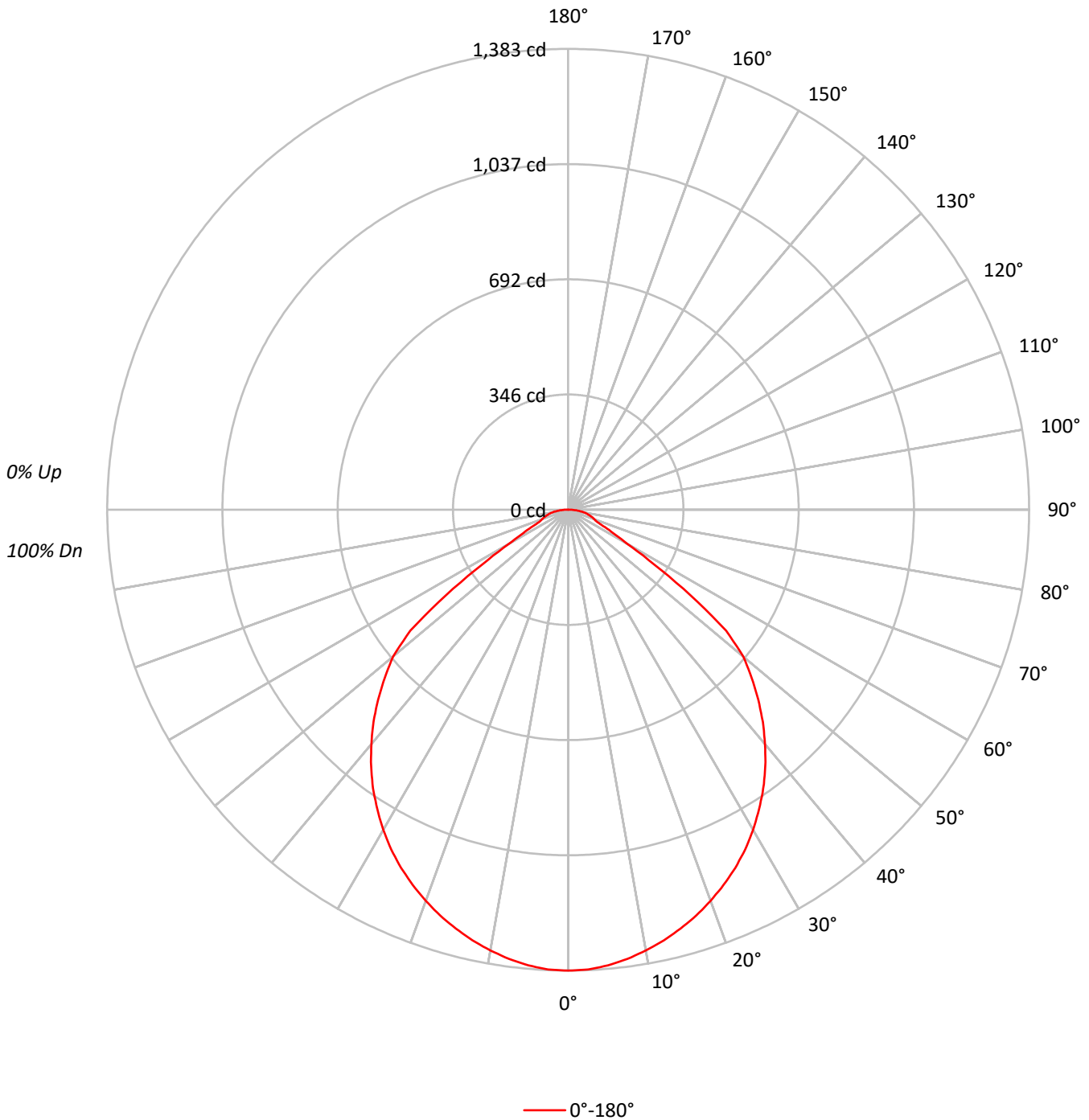
Lumens per Lamp: N/A
Luminaire Lumens: 2921.5 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866951

CATALOG NUMBER: PRLX-2002-L-927-32L-L-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866951

CATALOG NUMBER: PRLX-2002-L-927-32L-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	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	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	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6824
5°	6799
10°	6728
15°	6647
20°	6557
25°	6456
30°	6319
35°	6147
40°	5917
45°	5624
50°	5262
55°	3854
60°	2015
65°	1343
70°	1200
75°	1275
80°	1395
85°	1534

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5624 cd/sqm

TEST NUMBER: P866951

CATALOG NUMBER: PRLX-2002-L-927-32L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	4.5
10°-20°	367.0	12.6
20°-30°	545.8	18.7
30°-40°	637.2	21.8
40°-50°	620.8	21.2
50°-60°	397.7	13.6
60°-70°	123.8	4.2
70°-80°	70.5	2.4
80°-90°	28.6	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°	1043.0	35.7
0°-40°	1680.1	57.5
0°-60°	2698.6	92.4
0°-90°	2921.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2921.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1383	
5°	1373	130
15°	1301	367
25°	1186	546
35°	1020	637
45°	806	621
55°	448	398
65°	115	124
75°	67	71
85°	27	29
90°	0	

TEST NUMBER: P866951

CATALOG NUMBER: PRLX-2002-L-927-32L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1383.1
2.5°	1381.0
5°	1372.7
7.5°	1359.8
10°	1343.0
12.5°	1324.1
15°	1301.4
17.5°	1277.1
20°	1248.9
22.5°	1218.7
25°	1185.9
27.5°	1149.7
30°	1109.1
32.5°	1066.0
35°	1020.5
37.5°	971.4
40°	918.7
42.5°	864.2
45°	806.0
47.5°	746.6
50°	685.6
52.5°	596.7
55°	448.1
57.5°	303.4
60°	204.2
62.5°	152.2
65°	115.0
67.5°	91.2
70°	83.2
72.5°	75.7
75°	66.9
77.5°	58.4
80°	49.1
82.5°	38.8
85°	27.1
87.5°	14.5
90°	0.0



TEST NUMBER: P866951
 CATALOG NUMBER: PRLX-2002-L-927-32L-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	14.22	15.68	14.59	15.99	16.31	14.22	15.68	14.59	15.99	16.31
	3H	14.64	15.93	15.02	16.26	16.62	14.64	15.93	15.02	16.26	16.62
	4H	14.92	16.13	15.32	16.48	16.86	14.92	16.13	15.32	16.48	16.86
	6H	15.24	16.35	15.66	16.72	17.11	15.24	16.35	15.66	16.72	17.11
	8H	15.39	16.44	15.82	16.83	17.23	15.39	16.44	15.82	16.83	17.23
	12H	15.51	16.52	15.94	16.90	17.33	15.51	16.52	15.94	16.90	17.33
4H	2H	14.28	15.48	14.68	15.83	16.21	14.28	15.48	14.68	15.83	16.21
	3H	14.90	15.88	15.31	16.28	16.68	14.90	15.88	15.31	16.28	16.68
	4H	15.32	16.20	15.75	16.62	17.06	15.32	16.20	15.75	16.62	17.06
	6H	15.81	16.57	16.27	17.02	17.48	15.81	16.57	16.27	17.02	17.48
	8H	16.03	16.75	16.50	17.19	17.66	16.03	16.75	16.50	17.19	17.66
	12H	16.23	16.87	16.72	17.35	17.82	16.23	16.87	16.72	17.35	17.82
8H	4H	15.46	16.18	15.93	16.62	17.09	15.46	16.18	15.93	16.62	17.09
	6H	16.10	16.69	16.59	17.18	17.66	16.10	16.69	16.59	17.18	17.66
	8H	16.41	16.95	16.93	17.46	17.95	16.41	16.95	16.93	17.46	17.95
	12H	16.72	17.20	17.23	17.70	18.26	16.72	17.20	17.23	17.70	18.26
12H	4H	15.48	16.11	15.96	16.60	17.07	15.48	16.11	15.96	16.60	17.07
	6H	16.14	16.68	16.66	17.19	17.68	16.14	16.68	16.66	17.19	17.68
	8H	16.53	17.01	17.04	17.50	18.07	16.53	17.01	17.04	17.50	18.07