

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: P865423

Luminaire Tested: PRLX-2001-S-927-10L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-10L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

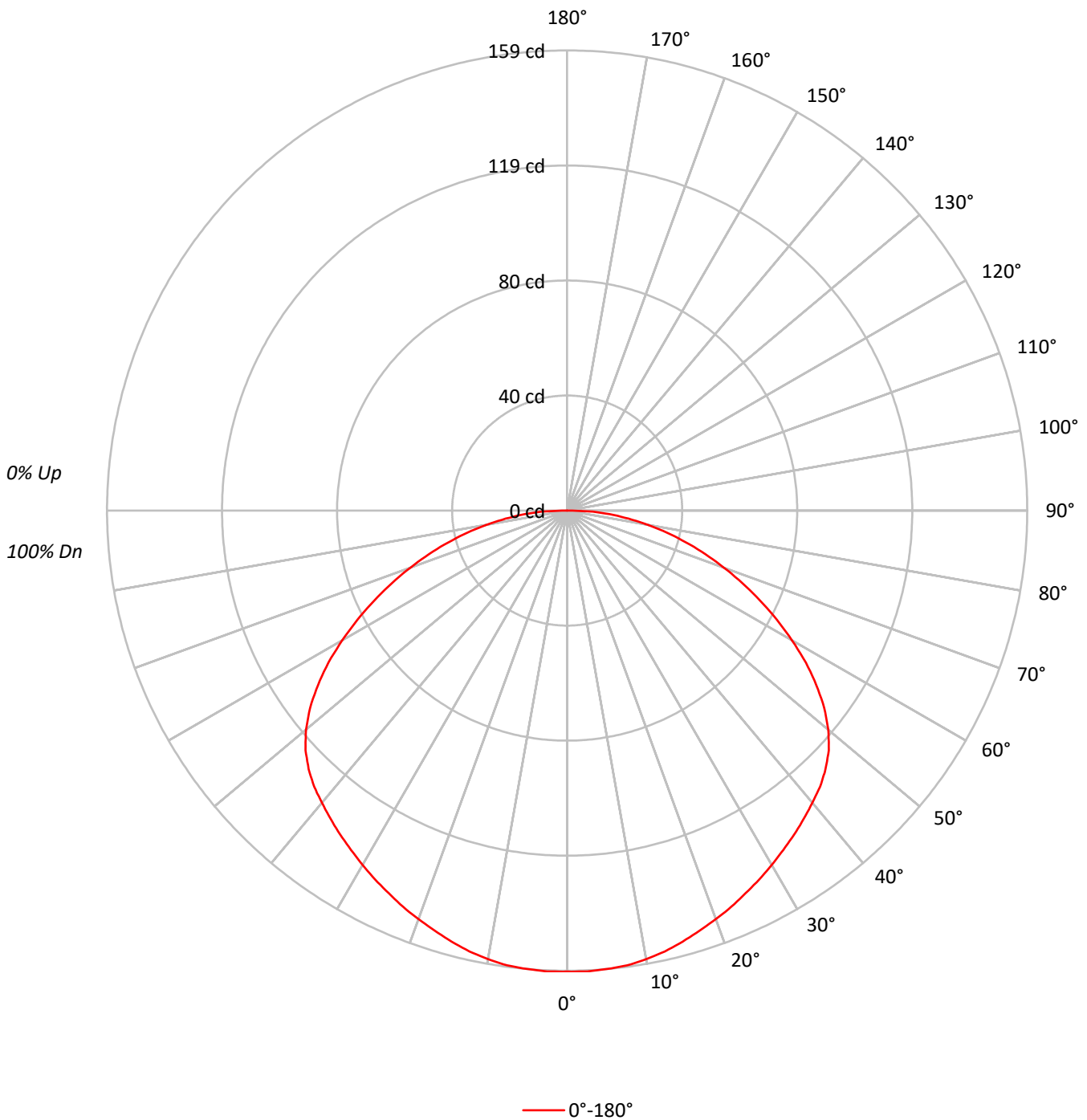
Lumens per Lamp: N/A
Luminaire Lumens: 536.8 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: P865423

CATALOG NUMBER: PRLX-2001-S-927-10L-G-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot



TEST NUMBER: P865423

CATALOG NUMBER: PRLX-2001-S-927-10L-G-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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33		45	38	33		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2598
5°	2603
10°	2607
15°	2604
20°	2607
25°	2626
30°	2663
35°	2722
40°	2806
45°	2913
50°	2989
55°	2989
60°	2929
65°	2837
70°	2747
75°	2678
80°	2649
85°	2770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 3328 cd/sqm

TEST NUMBER: P865423

CATALOG NUMBER: PRLX-2001-S-927-10L-G-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	2.8
10°-20°	43.6	8.1
20°-30°	67.4	12.6
30°-40°	85.7	16.0
40°-50°	97.3	18.1
50°-60°	93.7	17.4
60°-70°	72.9	13.6
70°-80°	45.1	8.4
80°-90°	16.1	3.0
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°	126.1	23.5
0°-40°	211.8	39.5
0°-60°	402.8	75.0
0°-90°	536.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	159	
5°	159	15
15°	154	44
25°	146	67
35°	137	86
45°	126	97
55°	105	94
65°	74	73
75°	42	45
85°	15	16
90°	0	

TEST NUMBER: P865423

CATALOG NUMBER: PRLX-2001-S-927-10L-G-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	159.3
2.5°	159.4
5°	159.0
7.5°	158.5
10°	157.4
12.5°	156.0
15°	154.2
17.5°	152.2
20°	150.2
22.5°	148.2
25°	145.9
27.5°	143.7
30°	141.4
32.5°	139.0
35°	136.7
37.5°	134.3
40°	131.8
42.5°	129.4
45°	126.3
47.5°	122.6
50°	117.8
52.5°	112.0
55°	105.1
57.5°	97.8
60°	89.8
62.5°	81.7
65°	73.5
67.5°	65.6
70°	57.6
72.5°	50.1
75°	42.5
77.5°	35.3
80°	28.2
82.5°	21.4
85°	14.8
87.5°	8.9
90°	0.0



TEST NUMBER: P865423
 CATALOG NUMBER: PRLX-2001-S-927-10L-G-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	16.20	17.91	16.56	18.22	18.54	16.20	17.91	16.56	18.22	18.54
	3H	18.09	19.64	18.46	19.97	20.33	18.09	19.64	18.46	19.97	20.33
	4H	18.85	20.32	19.25	20.67	21.04	18.85	20.32	19.25	20.67	21.04
	6H	19.49	20.86	19.90	21.22	21.61	19.49	20.86	19.90	21.22	21.61
	8H	19.74	21.05	20.16	21.43	21.83	19.74	21.05	20.16	21.43	21.83
	12H	19.94	21.20	20.37	21.58	22.00	19.94	21.20	20.37	21.58	22.00
4H	2H	16.85	18.32	17.25	18.67	19.04	16.85	18.32	17.25	18.67	19.04
	3H	18.98	20.22	19.39	20.62	21.02	18.98	20.22	19.39	20.62	21.02
	4H	19.89	21.02	20.32	21.43	21.86	19.89	21.02	20.32	21.43	21.86
	6H	20.68	21.67	21.13	22.11	22.56	20.68	21.67	21.13	22.11	22.56
	8H	21.00	21.93	21.45	22.37	22.83	21.00	21.93	21.45	22.37	22.83
	12H	21.27	22.11	21.74	22.58	23.05	21.27	22.11	21.74	22.58	23.05
8H	4H	20.27	21.20	20.73	21.64	22.10	20.27	21.20	20.73	21.64	22.10
	6H	21.21	21.99	21.70	22.48	22.95	21.21	21.99	21.70	22.48	22.95
	8H	21.63	22.33	22.13	22.83	23.31	21.63	22.33	22.13	22.83	23.31
	12H	22.01	22.63	22.51	23.12	23.67	22.01	22.63	22.51	23.12	23.67
12H	4H	20.33	21.17	20.80	21.64	22.11	20.33	21.17	20.80	21.64	22.11
	6H	21.31	22.01	21.81	22.51	22.99	21.31	22.01	21.81	22.51	22.99
	8H	21.79	22.42	22.30	22.90	23.46	21.79	22.42	22.30	22.90	23.46