

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: P865446

Luminaire Tested: PRLX-2001-S-927-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-25L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

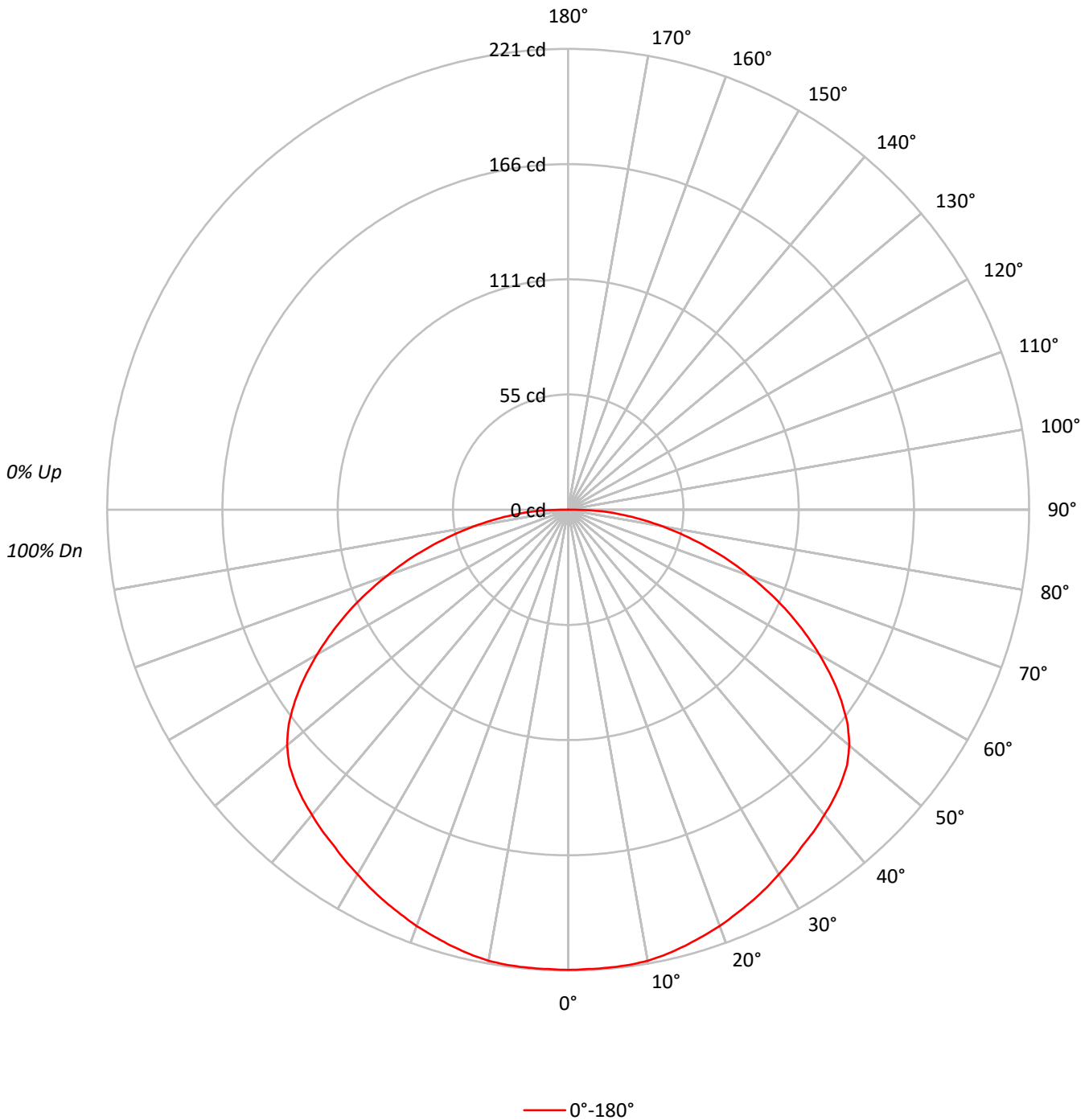
Lumens per Lamp: N/A
Luminaire Lumens: 801.1 lumens
Efficiency: N/A
Efficacy: 27.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865446

CATALOG NUMBER: PRLX-2001-S-927-25L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865446

CATALOG NUMBER: PRLX-2001-S-927-25L-G-U-S-X-X-GREY-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	107	102	97	93	105	100	95	91	95	92	88	91	88	86	88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59	69	63	58	66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49	60	54	48	58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28	40	33	28	39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3600
5°	3610
10°	3639
15°	3656
20°	3688
25°	3734
30°	3802
35°	3909
40°	4069
45°	4270
50°	4463
55°	4547
60°	4537
65°	4496
70°	4402
75°	4323
80°	4302
85°	4678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 6057 cd/sqm

TEST NUMBER: P865446

CATALOG NUMBER: PRLX-2001-S-927-25L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	2.6
10°-20°	61.2	7.6
20°-30°	95.8	12.0
30°-40°	123.3	15.4
40°-50°	142.8	17.8
50°-60°	142.4	17.8
60°-70°	115.0	14.4
70°-80°	72.6	9.1
80°-90°	27.0	3.4
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°	178.1	22.2
0°-40°	301.4	37.6
0°-60°	586.5	73.2
0°-90°	801.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	801.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	221	
5°	220	21
15°	216	61
25°	208	96
35°	196	123
45°	185	143
55°	160	142
65°	116	115
75°	69	73
85°	25	27
90°	0	

TEST NUMBER: P865446

CATALOG NUMBER: PRLX-2001-S-927-25L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	220.7
2.5°	220.5
5°	220.5
7.5°	220.3
10°	219.7
12.5°	218.3
15°	216.5
17.5°	214.5
20°	212.5
22.5°	209.9
25°	207.5
27.5°	204.9
30°	201.9
32.5°	199.3
35°	196.3
37.5°	193.9
40°	191.1
42.5°	188.3
45°	185.1
47.5°	181.3
50°	175.9
52.5°	168.9
55°	159.9
57.5°	149.9
60°	139.1
62.5°	127.9
65°	116.5
67.5°	104.5
70°	92.3
72.5°	80.6
75°	68.6
77.5°	57.0
80°	45.8
82.5°	35.0
85°	25.0
87.5°	16.2
90°	0.0



TEST NUMBER: P865446
 CATALOG NUMBER: PRLX-2001-S-927-25L-G-U-S-X-X-GREY-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	17.75	19.48	18.11	19.80	20.11	17.75	19.48	18.11	19.80	20.11
	3H	19.76	21.34	20.14	21.67	22.03	19.76	21.34	20.14	21.67	22.03
	4H	20.58	22.07	20.97	22.42	22.79	20.58	22.07	20.97	22.42	22.79
	6H	21.25	22.64	21.66	23.01	23.40	21.25	22.64	21.66	23.01	23.40
	8H	21.52	22.85	21.94	23.24	23.63	21.52	22.85	21.94	23.24	23.63
	12H	21.74	23.02	22.17	23.40	23.83	21.74	23.02	22.17	23.40	23.83
4H	2H	18.45	19.95	18.85	20.29	20.67	18.45	19.95	18.85	20.29	20.67
	3H	20.70	21.96	21.11	22.36	22.76	20.70	21.96	21.11	22.36	22.76
	4H	21.65	22.81	22.08	23.22	23.65	21.65	22.81	22.08	23.22	23.65
	6H	22.48	23.50	22.93	23.94	24.39	22.48	23.50	22.93	23.94	24.39
	8H	22.82	23.77	23.27	24.21	24.67	22.82	23.77	23.27	24.21	24.67
	12H	23.11	23.98	23.59	24.45	24.91	23.11	23.98	23.59	24.45	24.91
8H	4H	22.05	23.00	22.51	23.44	23.91	22.05	23.00	22.51	23.44	23.91
	6H	23.04	23.84	23.53	24.32	24.79	23.04	23.84	23.53	24.32	24.79
	8H	23.47	24.19	23.98	24.69	25.18	23.47	24.19	23.98	24.69	25.18
	12H	23.89	24.53	24.39	25.02	25.57	23.89	24.53	24.39	25.02	25.57
12H	4H	22.12	22.98	22.59	23.45	23.92	22.12	22.98	22.59	23.45	23.92
	6H	23.14	23.86	23.64	24.36	24.84	23.14	23.86	23.64	24.36	24.84
	8H	23.65	24.29	24.16	24.78	25.33	23.65	24.29	24.16	24.78	25.33