

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: P865605

Luminaire Tested: PRLX-2002-S-927-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-927-25L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

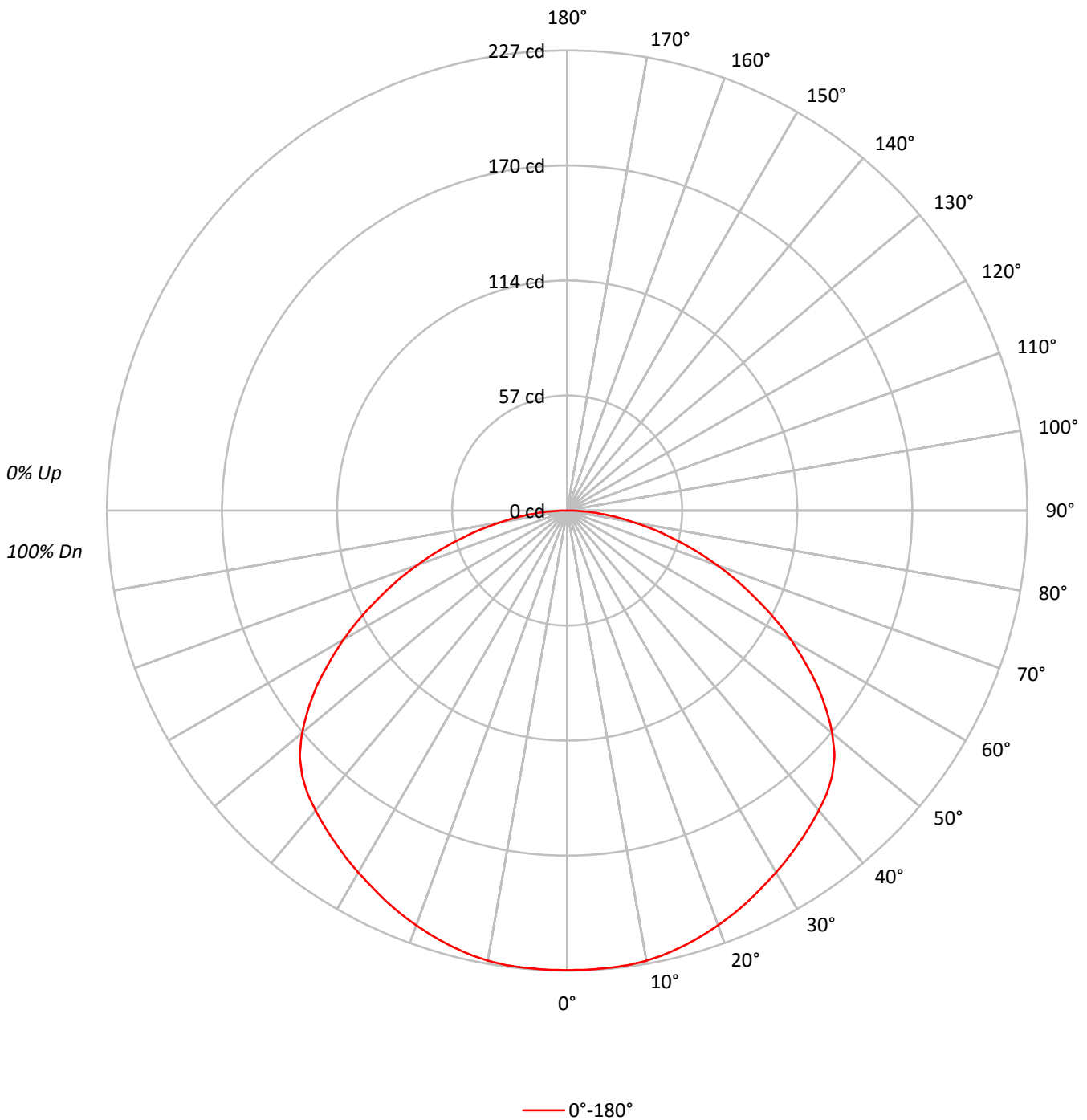
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 761.9 lumens  
Efficiency: N/A  
Efficacy: 26.2 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P865605

CATALOG NUMBER: PRLX-2002-S-927-25L-G-U-S-X-X-BRSS-X

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	4258
5°	4271
10°	4301
15°	4323
20°	4352
25°	4400
30°	4470
35°	4579
40°	4735
45°	4912
50°	4988
55°	4935
60°	4790
65°	4574
70°	4317
75°	4006
80°	3613
85°	3233

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 4988 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.6	2.8
10°-20°	62.8	8.2
20°-30°	98.0	12.9
30°-40°	125.3	16.4
40°-50°	142.1	18.7
50°-60°	134.2	17.6
60°-70°	102.0	13.4
70°-80°	58.6	7.7
80°-90°	17.2	2.3
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°	182.4	23.9
0°-40°	307.7	40.4
0°-60°	584.1	76.7
0°-90°	761.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	761.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	227	
5°	226	22
15°	222	63
25°	212	98
35°	200	125
45°	185	142
55°	151	134
65°	103	102
75°	55	59
85°	15	17
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	226.7
2.5°	226.7
5°	226.5
7.5°	226.3
10°	225.5
12.5°	224.1
15°	222.3
17.5°	220.1
20°	217.7
22.5°	215.1
25°	212.3
27.5°	209.1
30°	206.1
32.5°	203.1
35°	199.7
37.5°	196.5
40°	193.1
42.5°	189.5
45°	184.9
47.5°	178.9
50°	170.7
52.5°	161.1
55°	150.7
57.5°	139.1
60°	127.5
62.5°	115.3
65°	102.9
67.5°	90.9
70°	78.6
72.5°	67.0
75°	55.2
77.5°	44.2
80°	33.4
82.5°	23.8
85°	15.0
87.5°	7.8
90°	0.0

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**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	17.94	19.63	18.30	19.95	20.26	17.94	19.63	18.30	19.95	20.26
	3H	19.73	21.27	20.11	21.60	21.96	19.73	21.27	20.11	21.60	21.96
	4H	20.41	21.86	20.80	22.20	22.58	20.41	21.86	20.80	22.20	22.58
	6H	20.91	22.26	21.32	22.62	23.01	20.91	22.26	21.32	22.62	23.01
	8H	21.08	22.36	21.50	22.75	23.15	21.08	22.36	21.50	22.75	23.15
	12H	21.19	22.43	21.62	22.81	23.24	21.19	22.43	21.62	22.81	23.24
4H	2H	18.58	20.03	18.97	20.37	20.75	18.58	20.03	18.97	20.37	20.75
	3H	20.59	21.82	21.00	22.21	22.61	20.59	21.82	21.00	22.21	22.61
	4H	21.40	22.50	21.83	22.92	23.35	21.40	22.50	21.83	22.92	23.35
	6H	22.03	23.00	22.48	23.44	23.89	22.03	23.00	22.48	23.44	23.89
	8H	22.25	23.16	22.71	23.60	24.06	22.25	23.16	22.71	23.60	24.06
	12H	22.41	23.23	22.89	23.71	24.17	22.41	23.23	22.89	23.71	24.17
8H	4H	21.72	22.63	22.18	23.07	23.53	21.72	22.63	22.18	23.07	23.53
	6H	22.48	23.23	22.97	23.72	24.19	22.48	23.23	22.97	23.72	24.19
	8H	22.77	23.45	23.28	23.95	24.44	22.77	23.45	23.28	23.95	24.44
	12H	23.02	23.62	23.52	24.11	24.67	23.02	23.62	23.52	24.11	24.67
12H	4H	21.76	22.58	22.24	23.05	23.52	21.76	22.58	22.24	23.05	23.52
	6H	22.54	23.22	23.04	23.72	24.21	22.54	23.22	23.04	23.72	24.21
	8H	22.89	23.50	23.40	23.98	24.54	22.89	23.50	23.40	23.98	24.54