

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: P865646

Luminaire Tested: PRLX-2002-S-930-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-930-25L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

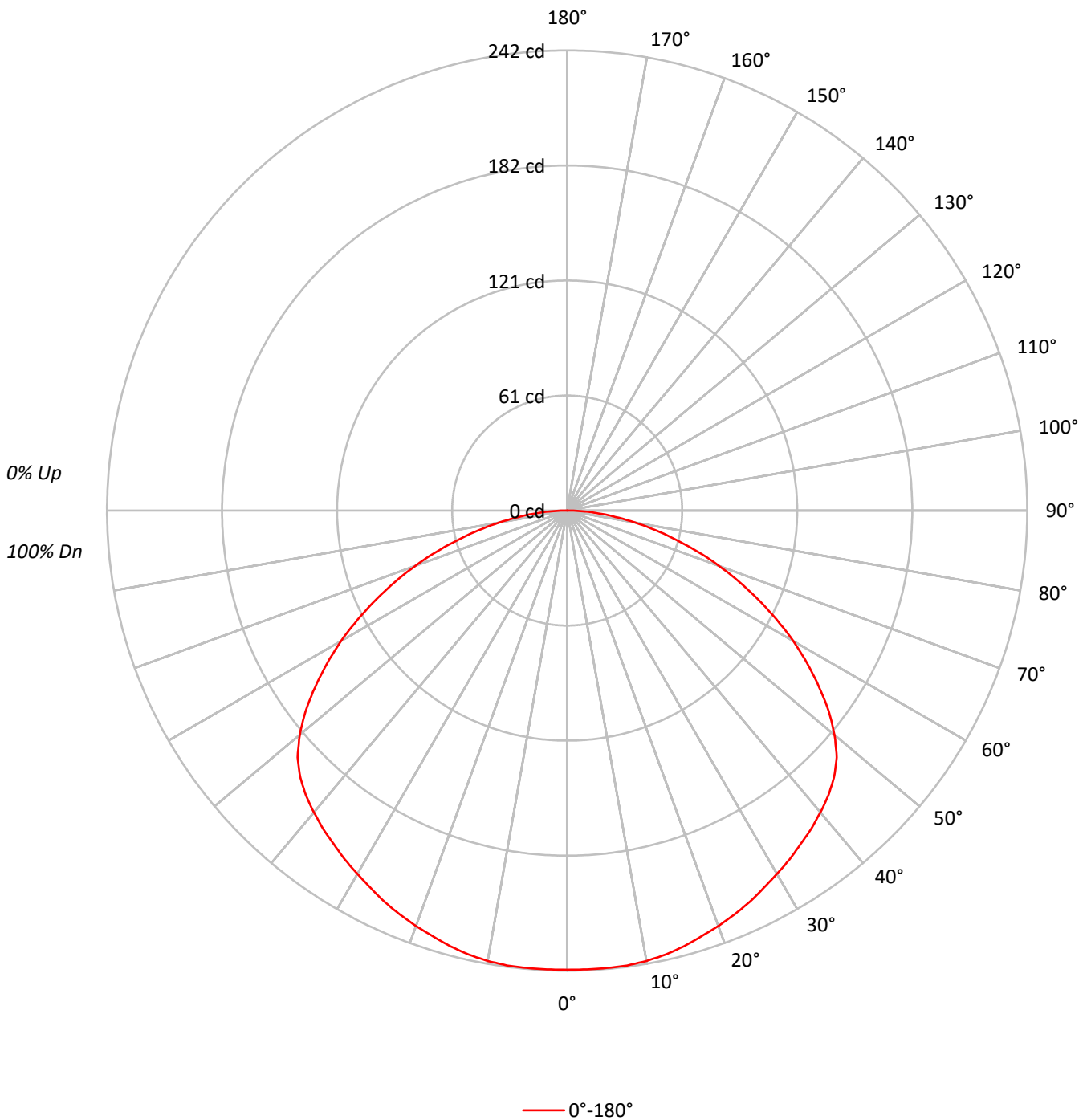
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 818.0 lumens  
Efficiency: N/A  
Efficacy: 28.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53  
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

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### 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	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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44	55	49	43	54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

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

	0°
0°	4536
5°	4554
10°	4587
15°	4613
20°	4648
25°	4707
30°	4785
35°	4910
40°	5081
45°	5273
50°	5365
55°	5299
60°	5162
65°	4934
70°	4663
75°	4311
80°	3905
85°	3535

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 5365 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.0	2.8
10°-20°	67.0	8.2
20°-30°	104.8	12.8
30°-40°	134.3	16.4
40°-50°	152.6	18.7
50°-60°	144.4	17.7
60°-70°	110.0	13.4
70°-80°	63.2	7.7
80°-90°	18.6	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°	194.9	23.8
0°-40°	329.2	40.3
0°-60°	626.2	76.6
0°-90°	818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	818.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	242	
5°	242	23
15°	237	67
25°	227	105
35°	214	134
45°	198	153
55°	162	144
65°	111	110
75°	59	63
85°	16	19
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	241.5
2.5°	241.5
5°	241.5
7.5°	241.3
10°	240.5
12.5°	239.2
15°	237.2
17.5°	234.8
20°	232.5
22.5°	229.9
25°	227.1
27.5°	223.8
30°	220.6
32.5°	217.6
35°	214.1
37.5°	210.9
40°	207.2
42.5°	203.3
45°	198.5
47.5°	192.3
50°	183.6
52.5°	173.5
55°	161.8
57.5°	149.7
60°	137.4
62.5°	124.2
65°	111.0
67.5°	98.1
70°	84.9
72.5°	72.2
75°	59.4
77.5°	47.5
80°	36.1
82.5°	25.5
85°	16.4
87.5°	8.4
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	18.20	19.90	18.57	20.21	20.53	18.20	19.90	18.57	20.21	20.53
	3H	20.01	21.54	20.38	21.87	22.23	20.01	21.54	20.38	21.87	22.23
	4H	20.68	22.13	21.07	22.48	22.85	20.68	22.13	21.07	22.48	22.85
	6H	21.18	22.53	21.59	22.89	23.28	21.18	22.53	21.59	22.89	23.28
	8H	21.34	22.63	21.77	23.02	23.42	21.34	22.63	21.77	23.02	23.42
	12H	21.46	22.70	21.89	23.08	23.51	21.46	22.70	21.89	23.08	23.51
4H	2H	18.84	20.29	19.24	20.64	21.01	18.84	20.29	19.24	20.64	21.01
	3H	20.87	22.09	21.28	22.49	22.88	20.87	22.09	21.28	22.49	22.88
	4H	21.67	22.78	22.10	23.19	23.62	21.67	22.78	22.10	23.19	23.62
	6H	22.30	23.27	22.75	23.71	24.16	22.30	23.27	22.75	23.71	24.16
	8H	22.52	23.43	22.97	23.87	24.33	22.52	23.43	22.97	23.87	24.33
	12H	22.69	23.51	23.16	23.98	24.45	22.69	23.51	23.16	23.98	24.45
8H	4H	21.99	22.90	22.45	23.34	23.81	21.99	22.90	22.45	23.34	23.81
	6H	22.75	23.51	23.24	23.99	24.47	22.75	23.51	23.24	23.99	24.47
	8H	23.04	23.72	23.54	24.22	24.71	23.04	23.72	23.54	24.22	24.71
	12H	23.29	23.89	23.79	24.38	24.94	23.29	23.89	23.79	24.38	24.94
12H	4H	22.03	22.85	22.51	23.32	23.79	22.03	22.85	22.51	23.32	23.79
	6H	22.81	23.49	23.32	24.00	24.48	22.81	23.49	23.32	24.00	24.48
	8H	23.16	23.76	23.67	24.25	24.81	23.16	23.76	23.67	24.25	24.81