

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: P865612

Luminaire Tested: PRLX-2002-S-930-05L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-930-05L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

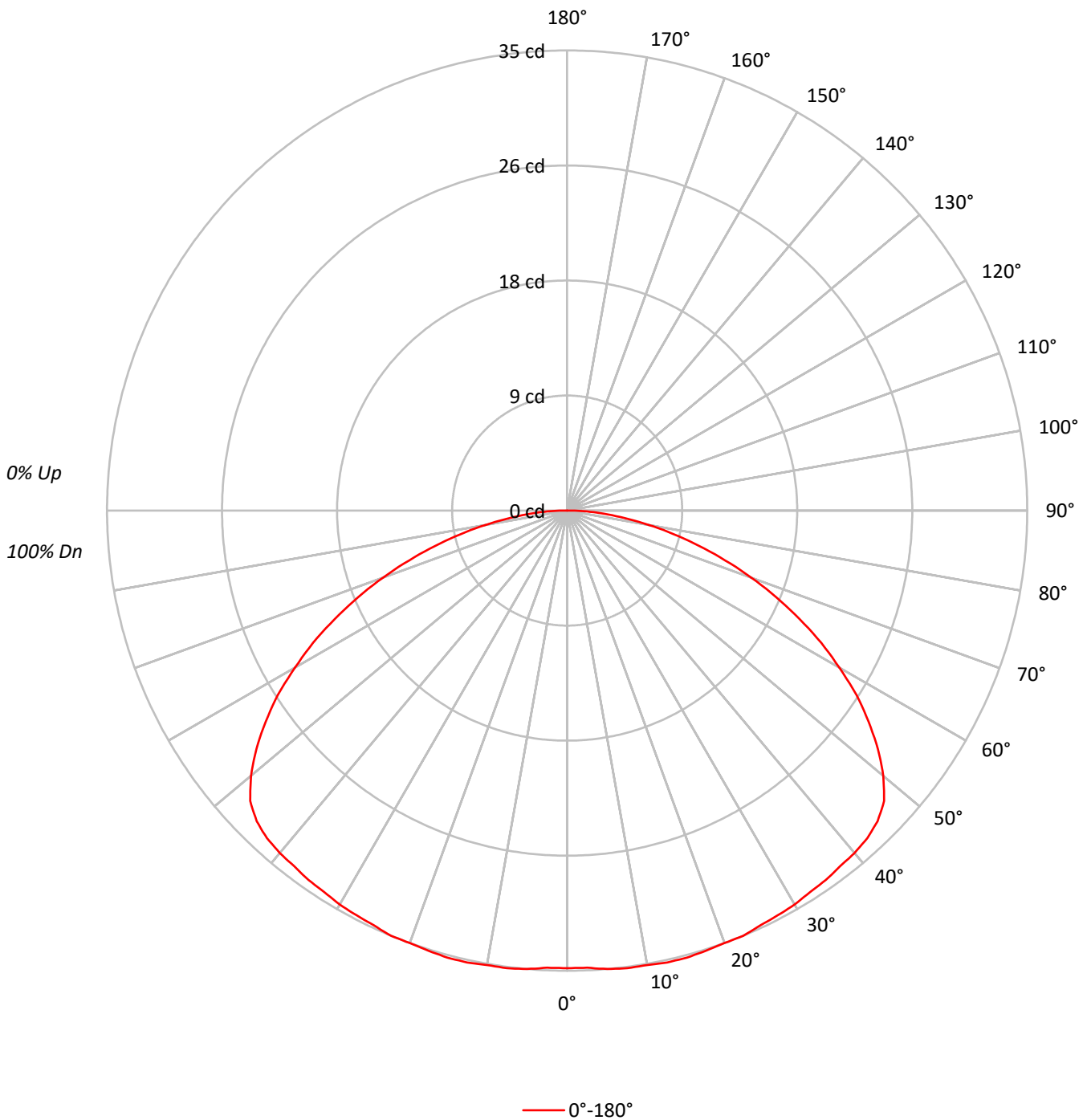
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 135.1 lumens  
Efficiency: N/A  
Efficacy: 21.8 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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: P865612

CATALOG NUMBER: PRLX-2002-S-930-05L-G-U-S-X-X-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865612

CATALOG NUMBER: PRLX-2002-S-930-05L-G-U-S-X-X-BLAK-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	93	89		92	89	87		89	86	84	82
2	97	88	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	59		69	63	58		67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59	53	48	46
5	73	60	50	43	71	58	50	43	56	48	42		54	47	42		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37		49	42	36		47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	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°	654
5°	660
10°	669
15°	685
20°	700
25°	721
30°	750
35°	787
40°	834
45°	887
50°	918
55°	917
60°	898
65°	867
70°	818
75°	755
80°	681
85°	603

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 920 cd/sqm

TEST NUMBER: P865612

CATALOG NUMBER: PRLX-2002-S-930-05L-G-U-S-X-X-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.3	2.5
10°-20°	10.0	7.4
20°-30°	16.1	11.9
30°-40°	21.5	15.9
40°-50°	25.6	19.0
50°-60°	25.0	18.5
60°-70°	19.3	14.3
70°-80°	11.0	8.2
80°-90°	3.2	2.4
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°	29.4	21.8
0°-40°	50.9	37.7
0°-60°	101.5	75.2
0°-90°	135.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	135.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	35	
5°	35	3
15°	35	10
25°	35	16
35°	34	22
45°	33	26
55°	28	25
65°	20	19
75°	10	11
85°	3	3
90°	0	

TEST NUMBER: P865612

CATALOG NUMBER: PRLX-2002-S-930-05L-G-U-S-X-X-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	34.8
2.5°	34.8
5°	35.0
7.5°	35.1
10°	35.1
12.5°	35.2
15°	35.2
17.5°	35.1
20°	35.0
22.5°	35.0
25°	34.8
27.5°	34.7
30°	34.6
32.5°	34.4
35°	34.3
37.5°	34.1
40°	34.0
42.5°	33.8
45°	33.4
47.5°	32.7
50°	31.4
52.5°	29.8
55°	28.0
57.5°	26.1
60°	23.9
62.5°	21.8
65°	19.5
67.5°	17.2
70°	14.9
72.5°	12.6
75°	10.4
77.5°	8.3
80°	6.3
82.5°	4.4
85°	2.8
87.5°	1.5
90°	0.0

TEST NUMBER: P865612  
 CATALOG NUMBER: PRLX-2002-S-930-05L-G-U-S-X-X-BLAK-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	12.28	14.01	12.64	14.32	14.63	12.28	14.01	12.64	14.32	14.63
	3H	14.10	15.67	14.48	16.00	16.36	14.10	15.67	14.48	16.00	16.36
	4H	14.78	16.26	15.18	16.61	16.98	14.78	16.26	15.18	16.61	16.98
	6H	15.28	16.66	15.69	17.02	17.41	15.28	16.66	15.69	17.02	17.41
	8H	15.44	16.76	15.87	17.15	17.55	15.44	16.76	15.87	17.15	17.55
	12H	15.56	16.82	15.99	17.21	17.63	15.56	16.82	15.99	17.21	17.63
4H	2H	12.94	14.42	13.33	14.76	15.14	12.94	14.42	13.33	14.76	15.14
	3H	14.98	16.23	15.39	16.62	17.02	14.98	16.23	15.39	16.62	17.02
	4H	15.78	16.91	16.21	17.33	17.76	15.78	16.91	16.21	17.33	17.76
	6H	16.41	17.41	16.87	17.85	18.30	16.41	17.41	16.87	17.85	18.30
	8H	16.63	17.56	17.08	18.00	18.46	16.63	17.56	17.08	18.00	18.46
	12H	16.79	17.63	17.27	18.11	18.57	16.79	17.63	17.27	18.11	18.57
8H	4H	16.11	17.04	16.57	17.48	17.94	16.11	17.04	16.57	17.48	17.94
	6H	16.86	17.64	17.35	18.13	18.60	16.86	17.64	17.35	18.13	18.60
	8H	17.15	17.85	17.66	18.35	18.84	17.15	17.85	17.66	18.35	18.84
	12H	17.39	18.01	17.90	18.50	19.06	17.39	18.01	17.90	18.50	19.06
12H	4H	16.15	16.99	16.63	17.46	17.93	16.15	16.99	16.63	17.46	17.93
	6H	16.93	17.63	17.43	18.13	18.61	16.93	17.63	17.43	18.13	18.61
	8H	17.27	17.89	17.78	18.38	18.94	17.27	17.89	17.78	18.38	18.94