

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: P865616

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-S-930-05L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

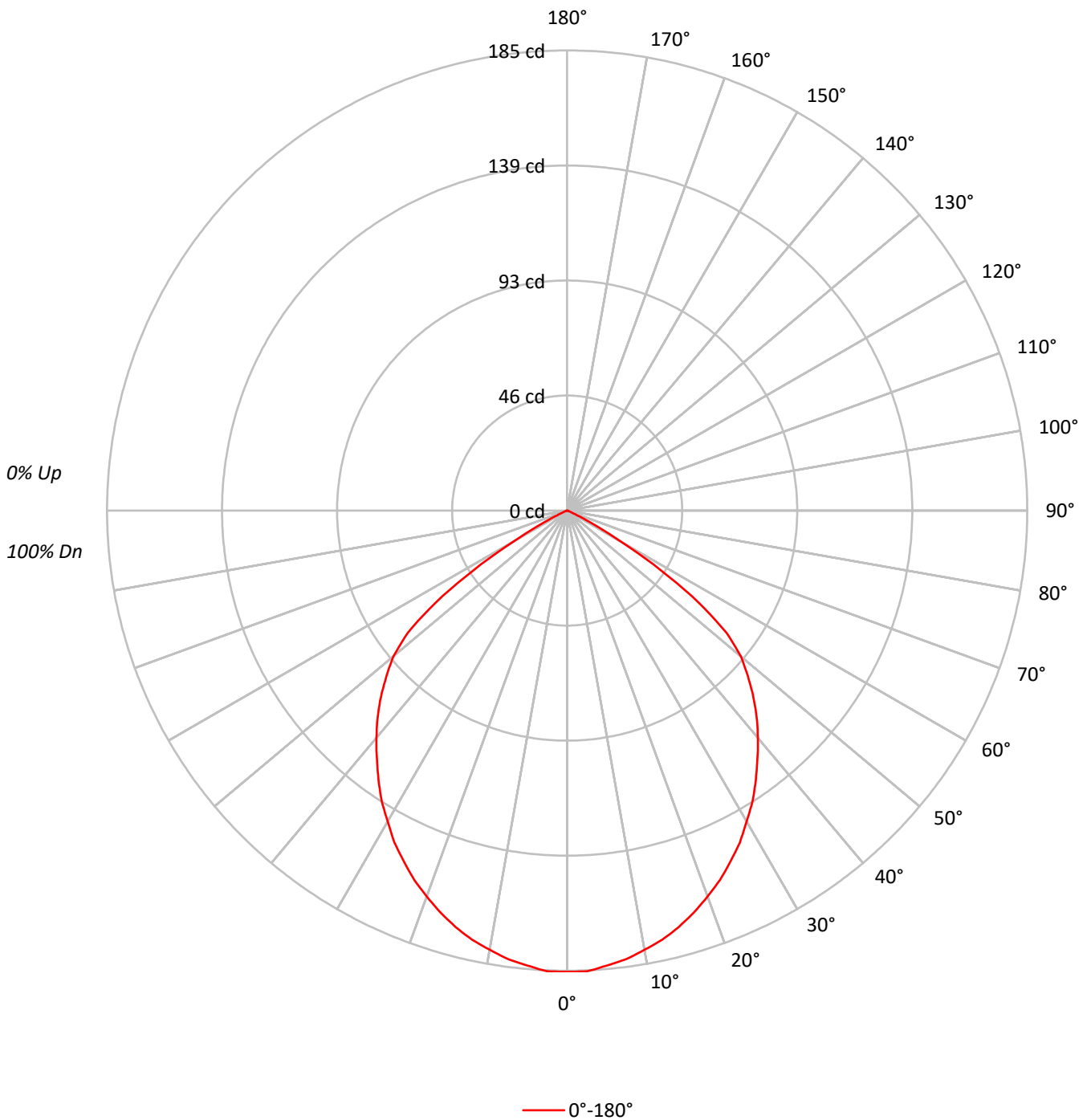
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 365.1 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28  
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: P865616

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

### Luminous Intensity Polar Plot





TEST NUMBER: P865616

CATALOG NUMBER: PRLX-2002-S-930-05L-L-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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

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

	0°
0°	3483
5°	3462
10°	3420
15°	3370
20°	3300
25°	3223
30°	3130
35°	3032
40°	2925
45°	2813
50°	2665
55°	2122
60°	924
65°	191
70°	22
75°	29
80°	43
85°	86

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2813 cd/sqm

TEST NUMBER: P865616

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.4	4.8
10°-20°	48.8	13.4
20°-30°	71.6	19.6
30°-40°	82.7	22.6
40°-50°	81.5	22.3
50°-60°	55.1	15.1
60°-70°	7.1	2.0
70°-80°	0.4	0.1
80°-90°	0.4	0.1
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°	137.8	37.8
0°-40°	220.5	60.4
0°-60°	357.1	97.8
0°-90°	365.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	365.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	185	
5°	184	17
15°	173	49
25°	156	72
35°	132	83
45°	106	81
55°	65	55
65°	4	7
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P865616

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

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	185.4
2.5°	185.4
5°	183.6
7.5°	181.9
10°	179.3
12.5°	176.7
15°	173.3
17.5°	169.4
20°	165.1
22.5°	160.7
25°	155.5
27.5°	150.4
30°	144.3
32.5°	138.7
35°	132.2
37.5°	125.7
40°	119.3
42.5°	112.8
45°	105.9
47.5°	98.5
50°	91.2
52.5°	80.8
55°	64.8
57.5°	44.9
60°	24.6
62.5°	11.7
65°	4.3
67.5°	0.9
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.4
87.5°	0.4
90°	0.0



TEST NUMBER: P865616  
 CATALOG NUMBER: PRLX-2002-S-930-05L-L-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	12.82	14.22	13.18	14.53	14.85	12.82	14.22	13.18	14.53	14.85
	3H	12.70	13.93	13.08	14.26	14.62	12.70	13.93	13.08	14.26	14.62
	4H	12.63	13.77	13.03	14.12	14.50	12.63	13.77	13.03	14.12	14.50
	6H	12.56	13.60	12.97	13.97	14.37	12.56	13.60	12.97	13.97	14.37
	8H	12.52	13.51	12.95	13.90	14.30	12.52	13.51	12.95	13.90	14.30
	12H	12.48	13.43	12.91	13.81	14.24	12.48	13.43	12.91	13.81	14.24
4H	2H	12.65	13.79	13.05	14.14	14.52	12.65	13.79	13.05	14.14	14.52
	3H	12.53	13.45	12.95	13.85	14.26	12.53	13.45	12.95	13.85	14.26
	4H	12.45	13.26	12.89	13.68	14.13	12.45	13.26	12.89	13.68	14.13
	6H	12.38	13.08	12.84	13.52	13.99	12.38	13.08	12.84	13.52	13.99
	8H	12.32	12.98	12.79	13.42	13.89	12.32	12.98	12.79	13.42	13.89
	12H	12.28	12.86	12.76	13.34	13.82	12.28	12.86	12.76	13.34	13.82
8H	4H	12.32	12.97	12.79	13.42	13.89	12.32	12.97	12.79	13.42	13.89
	6H	12.21	12.76	12.72	13.25	13.73	12.21	12.76	12.72	13.25	13.73
	8H	12.15	12.64	12.67	13.16	13.65	12.15	12.64	12.67	13.16	13.65
	12H	12.11	12.55	12.62	13.04	13.61	12.11	12.55	12.62	13.04	13.61
12H	4H	12.27	12.85	12.76	13.33	13.81	12.27	12.85	12.76	13.33	13.81
	6H	12.15	12.64	12.67	13.15	13.65	12.15	12.64	12.67	13.15	13.65
	8H	12.10	12.54	12.61	13.04	13.61	12.10	12.54	12.61	13.04	13.61