

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: P865848

Luminaire Tested: PRLX-2004-S-935-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-S-935-25L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

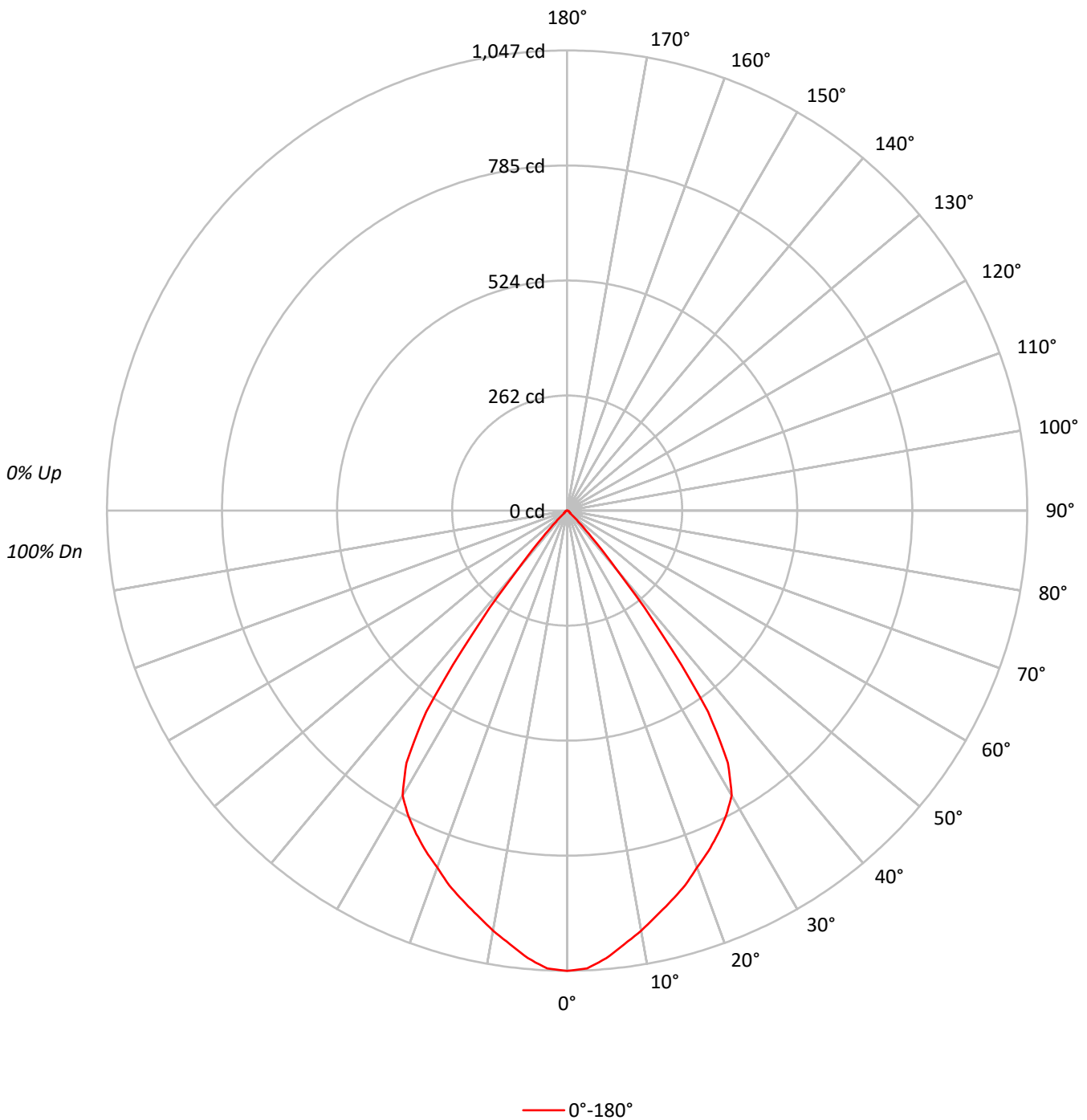
Lumens per Lamp: N/A  
Luminaire Lumens: 1097.5 lumens  
Efficiency: N/A  
Efficacy: 37.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct

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: P865848

CATALOG NUMBER: PRLX-2004-S-935-25L-L-U-S-X-X-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865848

CATALOG NUMBER: PRLX-2004-S-935-25L-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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	63	58	54	63	57	53	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48

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

	0°
0°	17082
5°	16739
10°	16072
15°	15506
20°	14998
25°	14613
30°	14100
35°	11124
40°	3709
45°	835
50°	228
55°	193
60°	147
65°	174
70°	110
75°	145
80°	216
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 835 cd/sqm



TEST NUMBER: P865848

CATALOG NUMBER: PRLX-2004-S-935-25L-L-U-S-X-X-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.9	8.7
10°-20°	258.7	23.6
20°-30°	373.4	34.0
30°-40°	315.5	28.7
40°-50°	41.0	3.7
50°-60°	6.1	0.6
60°-70°	4.2	0.4
70°-80°	2.4	0.2
80°-90°	0.3	0.0
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°	728.0	66.3
0°-40°	1043.5	95.1
0°-60°	1090.6	99.4
0°-90°	1097.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1047	
5°	1022	96
15°	918	259
25°	812	373
35°	559	316
45°	36	41
55°	7	6
65°	4	4
75°	2	2
85°	0	0
90°	0	

TEST NUMBER: P865848

CATALOG NUMBER: PRLX-2004-S-935-25L-L-U-S-X-X-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1047.3
2.5°	1042.7
5°	1022.4
7.5°	995.2
10°	970.4
12.5°	943.2
15°	918.3
17.5°	893.5
20°	864.1
22.5°	839.2
25°	812.0
27.5°	782.6
30°	748.7
32.5°	680.8
35°	558.7
37.5°	355.1
40°	174.2
42.5°	81.4
45°	36.2
47.5°	11.3
50°	9.0
52.5°	6.8
55°	6.8
57.5°	6.8
60°	4.5
62.5°	4.5
65°	4.5
67.5°	4.5
70°	2.3
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



TEST NUMBER: P865848

CATALOG NUMBER: PRLX-2004-S-935-25L-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.07
	8H	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.08
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.39	0.87	0.00	0.00	0.00	0.39	0.87
	8H	0.00	0.00	0.00	0.39	0.86	0.00	0.00	0.00	0.39	0.86
	12H	0.00	0.00	0.00	0.29	0.77	0.00	0.00	0.00	0.29	0.77
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.26	0.43	0.77	1.25	0.00	0.26	0.43	0.77	1.25
	8H	0.00	0.24	0.47	0.76	1.26	0.00	0.24	0.47	0.76	1.26
	12H	0.00	0.14	0.40	0.64	1.22	0.00	0.14	0.40	0.64	1.22
12H	4H	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03
	6H	0.00	0.24	0.47	0.77	1.26	0.00	0.24	0.47	0.77	1.26
	8H	0.00	0.23	0.49	0.73	1.31	0.00	0.23	0.49	0.73	1.31