

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: P866292

Luminaire Tested: PRLX-2002-M-935-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-M-935-25L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

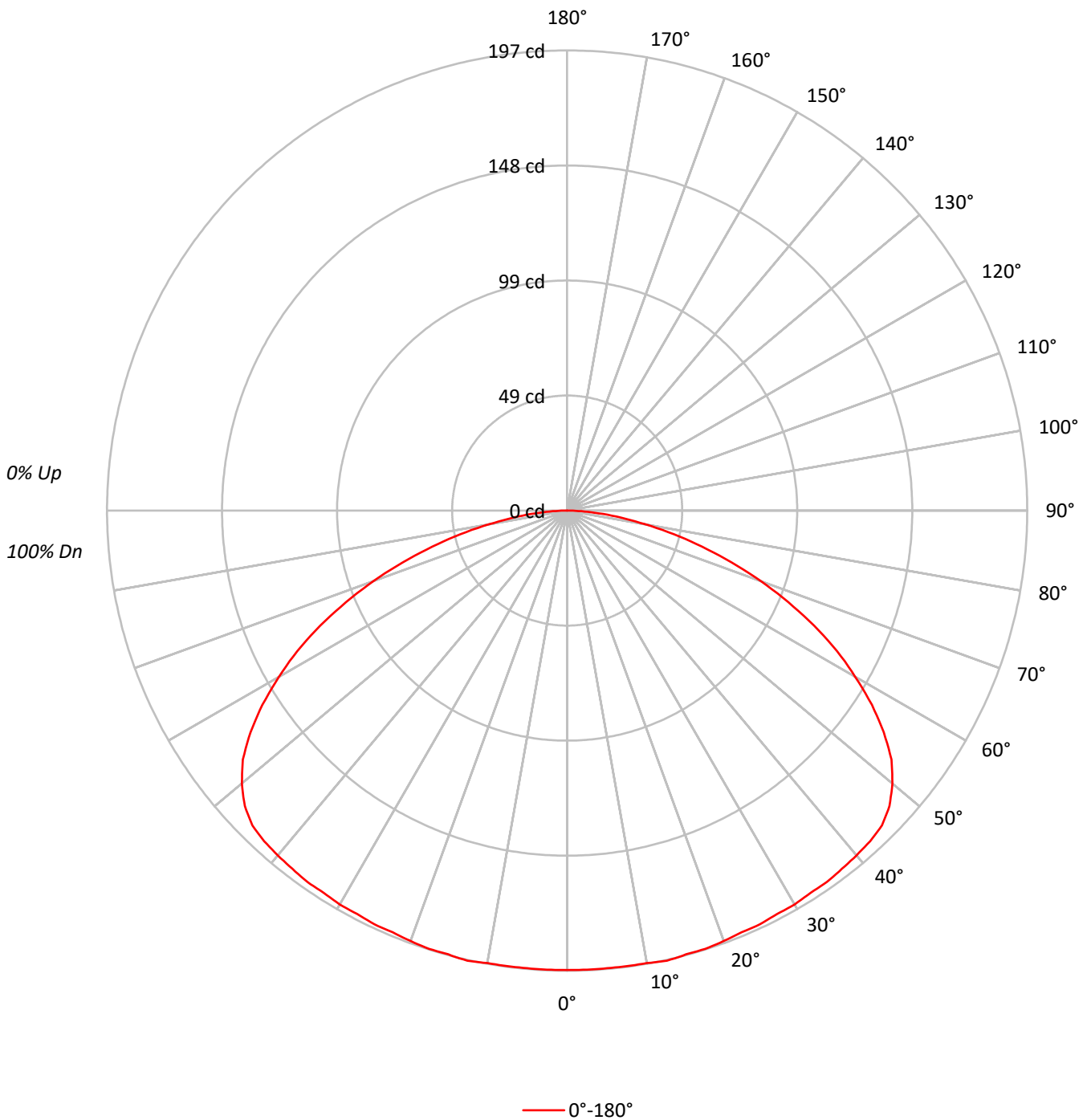
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 775.0 lumens  
Efficiency: N/A  
Efficacy: 35.7 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.7  
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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P866292

CATALOG NUMBER: PRLX-2002-M-935-25L-G-U-S-X-X-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866292

CATALOG NUMBER: PRLX-2002-M-935-25L-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	90		92	89	87		89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59		69	63	58		67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49		61	54	49		59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25		36	30	25		35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22		34	27	22		33	26	22	20

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

	0°
0°	1565
5°	1571
10°	1589
15°	1620
20°	1660
25°	1715
30°	1789
35°	1884
40°	2001
45°	2144
50°	2250
55°	2296
60°	2267
65°	2197
70°	2052
75°	1835
80°	1553
85°	1241

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 2296 cd/sqm

TEST NUMBER: P866292

CATALOG NUMBER: PRLX-2002-M-935-25L-G-U-S-X-X-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.8	2.4
10°-20°	55.8	7.2
20°-30°	90.3	11.7
30°-40°	121.7	15.7
40°-50°	146.5	18.9
50°-60°	147.1	19.0
60°-70°	115.0	14.8
70°-80°	63.6	8.2
80°-90°	16.3	2.1
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°	164.9	21.3
0°-40°	286.6	37.0
0°-60°	580.1	74.9
0°-90°	775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	775.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	197	
5°	197	19
15°	197	56
25°	195	90
35°	194	122
45°	191	146
55°	166	147
65°	117	115
75°	60	64
85°	14	16
90°	0	

TEST NUMBER: P866292

CATALOG NUMBER: PRLX-2002-M-935-25L-G-U-S-X-X-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	196.7
2.5°	196.7
5°	196.7
7.5°	196.7
10°	196.7
12.5°	197.4
15°	196.7
17.5°	196.7
20°	196.1
22.5°	195.4
25°	195.4
27.5°	194.7
30°	194.7
32.5°	194.0
35°	194.0
37.5°	193.3
40°	192.7
42.5°	192.0
45°	190.6
47.5°	187.2
50°	181.8
52.5°	175.0
55°	165.5
57.5°	154.7
60°	142.5
62.5°	130.3
65°	116.7
67.5°	102.4
70°	88.2
72.5°	73.9
75°	59.7
77.5°	46.8
80°	33.9
82.5°	23.1
85°	13.6
87.5°	6.1
90°	0.0



TEST NUMBER: P866292  
 CATALOG NUMBER: PRLX-2002-M-935-25L-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	15.58	17.32	15.95	17.63	17.95	15.58	17.32	15.95	17.63	17.95
	3H	17.41	18.99	17.79	19.32	19.67	17.41	18.99	17.79	19.32	19.67
	4H	18.06	19.54	18.45	19.89	20.26	18.06	19.54	18.45	19.89	20.26
	6H	18.50	19.88	18.91	20.24	20.63	18.50	19.88	18.91	20.24	20.63
	8H	18.63	19.95	19.05	20.34	20.74	18.63	19.95	19.05	20.34	20.74
	12H	18.71	19.98	19.14	20.36	20.79	18.71	19.98	19.14	20.36	20.79
4H	2H	16.25	17.74	16.65	18.09	18.46	16.25	17.74	16.65	18.09	18.46
	3H	18.29	19.55	18.70	19.94	20.34	18.29	19.55	18.70	19.94	20.34
	4H	19.05	20.19	19.48	20.60	21.03	19.05	20.19	19.48	20.60	21.03
	6H	19.61	20.61	20.06	21.05	21.50	19.61	20.61	20.06	21.05	21.50
	8H	19.78	20.72	20.24	21.16	21.62	19.78	20.72	20.24	21.16	21.62
	12H	19.91	20.75	20.38	21.22	21.69	19.91	20.75	20.38	21.22	21.69
8H	4H	19.36	20.29	19.82	20.73	21.20	19.36	20.29	19.82	20.73	21.20
	6H	20.03	20.80	20.52	21.29	21.76	20.03	20.80	20.52	21.29	21.76
	8H	20.26	20.96	20.76	21.46	21.94	20.26	20.96	20.76	21.46	21.94
	12H	20.44	21.06	20.95	21.55	22.11	20.44	21.06	20.95	21.55	22.11
12H	4H	19.39	20.24	19.87	20.71	21.18	19.39	20.24	19.87	20.71	21.18
	6H	20.07	20.77	20.58	21.28	21.76	20.07	20.77	20.58	21.28	21.76
	8H	20.36	20.98	20.87	21.47	22.03	20.36	20.98	20.87	21.47	22.03