

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: P865965

Luminaire Tested: PRLX-2001-M-930-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-M-930-15L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

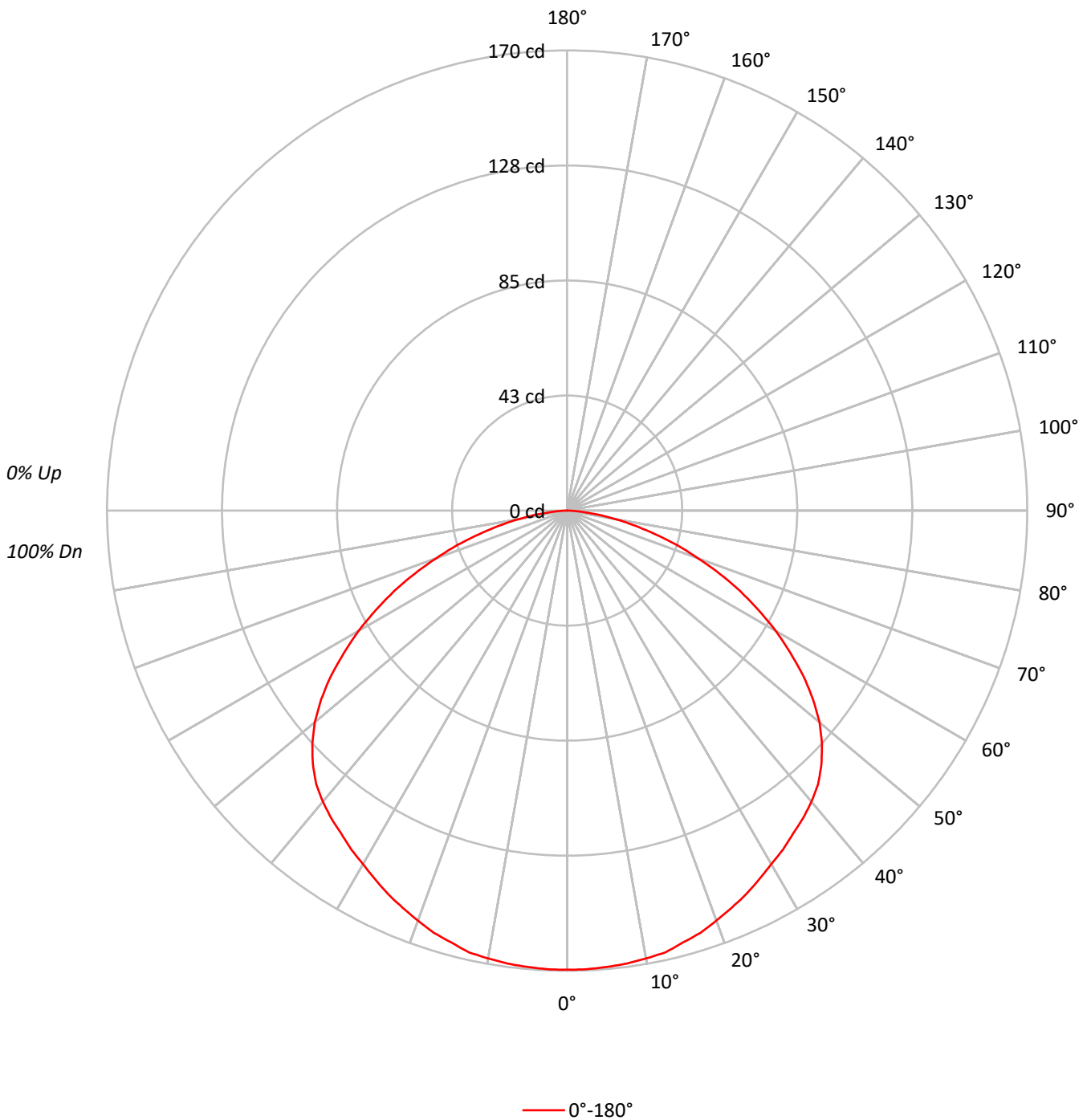
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 536.5 lumens  
Efficiency: N/A  
Efficacy: 38.3 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14  
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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°
0°	1439
5°	1441
10°	1448
15°	1451
20°	1456
25°	1464
30°	1478
35°	1508
40°	1555
45°	1594
50°	1607
55°	1576
60°	1511
65°	1418
70°	1278
75°	1098
80°	880
85°	545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 1607 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.1	3.0
10°-20°	46.7	8.7
20°-30°	72.2	13.5
30°-40°	91.4	17.0
40°-50°	102.2	19.0
50°-60°	94.8	17.7
60°-70°	69.7	13.0
70°-80°	36.0	6.7
80°-90°	7.4	1.4
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°	135.0	25.2
0°-40°	226.4	42.2
0°-60°	423.4	78.9
0°-90°	536.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	170	
5°	169	16
15°	165	47
25°	156	72
35°	146	91
45°	133	102
55°	106	95
65°	71	70
75°	34	36
85°	6	7
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	169.6
2.5°	169.6
5°	169.2
7.5°	168.8
10°	168.0
12.5°	167.2
15°	165.2
17.5°	163.6
20°	161.2
22.5°	158.8
25°	156.4
27.5°	153.6
30°	150.8
32.5°	148.4
35°	145.6
37.5°	143.2
40°	140.4
42.5°	137.2
45°	132.8
47.5°	127.7
50°	121.7
52.5°	114.5
55°	106.5
57.5°	97.7
60°	89.0
62.5°	79.8
65°	70.6
67.5°	61.0
70°	51.5
72.5°	42.7
75°	33.5
77.5°	25.5
80°	18.0
82.5°	11.2
85°	5.6
87.5°	1.6
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	13.97	15.64	14.34	15.96	16.27	13.97	15.64	14.34	15.96	16.27
	3H	15.62	17.12	15.99	17.45	17.81	15.62	17.12	15.99	17.45	17.81
	4H	16.16	17.58	16.56	17.93	18.30	16.16	17.58	16.56	17.93	18.30
	6H	16.50	17.82	16.92	18.18	18.57	16.50	17.82	16.92	18.18	18.57
	8H	16.59	17.84	17.01	18.23	18.63	16.59	17.84	17.01	18.23	18.63
	12H	16.62	17.83	17.05	18.21	18.64	16.62	17.83	17.05	18.21	18.64
4H	2H	14.58	16.00	14.98	16.35	16.72	14.58	16.00	14.98	16.35	16.72
	3H	16.42	17.61	16.83	18.01	18.41	16.42	17.61	16.83	18.01	18.41
	4H	17.08	18.15	17.51	18.56	19.00	17.08	18.15	17.51	18.56	19.00
	6H	17.52	18.46	17.98	18.90	19.36	17.52	18.46	17.98	18.90	19.36
	8H	17.64	18.51	18.10	18.95	19.42	17.64	18.51	18.10	18.95	19.42
	12H	17.70	18.48	18.18	18.96	19.43	17.70	18.48	18.18	18.96	19.43
8H	4H	17.33	18.21	17.79	18.65	19.11	17.33	18.21	17.79	18.65	19.11
	6H	17.86	18.59	18.35	19.08	19.55	17.86	18.59	18.35	19.08	19.55
	8H	18.02	18.67	18.53	19.18	19.66	18.02	18.67	18.53	19.18	19.66
	12H	18.11	18.69	18.62	19.18	19.74	18.11	18.69	18.62	19.18	19.74
12H	4H	17.35	18.13	17.83	18.61	19.08	17.35	18.13	17.83	18.61	19.08
	6H	17.89	18.54	18.39	19.05	19.53	17.89	18.54	18.39	19.05	19.53
	8H	18.09	18.66	18.59	19.15	19.71	18.09	18.66	18.59	19.15	19.71