

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: P866285

Luminaire Tested: PRLX-2002-M-935-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-M-935-15L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

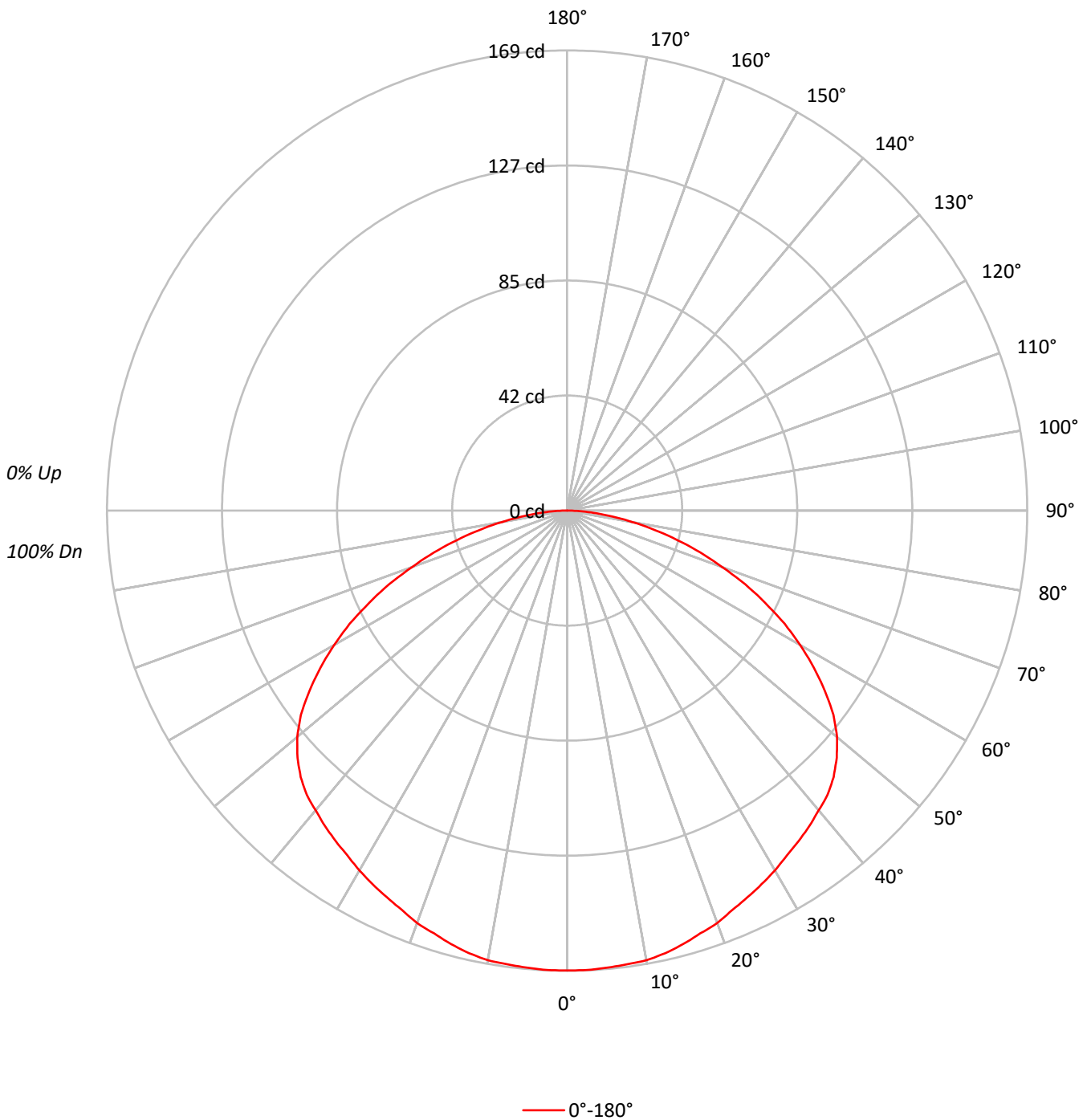
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 573.2 lumens  
Efficiency: N/A  
Efficacy: 40.9 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53  
Luminous Opening: Circular (Dia: 1.31' 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: 0.5 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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

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

	0°
0°	1344
5°	1346
10°	1355
15°	1357
20°	1365
25°	1376
30°	1402
35°	1439
40°	1492
45°	1557
50°	1602
55°	1603
60°	1574
65°	1510
70°	1410
75°	1288
80°	1118
85°	895

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 1611 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.1	2.8
10°-20°	46.6	8.1
20°-30°	72.4	12.6
30°-40°	93.0	16.2
40°-50°	106.5	18.6
50°-60°	103.0	18.0
60°-70°	79.4	13.8
70°-80°	44.5	7.8
80°-90°	11.8	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°	135.1	23.6
0°-40°	228.0	39.8
0°-60°	437.6	76.3
0°-90°	573.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	169	
5°	168	16
15°	165	47
25°	157	72
35°	148	93
45°	138	106
55°	116	103
65°	80	79
75°	42	44
85°	10	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	168.9
2.5°	168.9
5°	168.5
7.5°	168.1
10°	167.7
12.5°	166.5
15°	164.8
17.5°	162.8
20°	161.2
22.5°	158.7
25°	156.7
27.5°	154.7
30°	152.6
32.5°	150.2
35°	148.2
37.5°	146.1
40°	143.7
42.5°	141.6
45°	138.4
47.5°	134.3
50°	129.4
52.5°	123.3
55°	115.6
57.5°	107.5
60°	98.9
62.5°	90.0
65°	80.2
67.5°	70.8
70°	60.6
72.5°	51.3
75°	41.9
77.5°	33.0
80°	24.4
82.5°	16.7
85°	9.8
87.5°	4.5
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	14.14	15.85	14.51	16.16	16.47	14.14	15.85	14.51	16.16	16.47
	3H	15.95	17.49	16.33	17.82	18.18	15.95	17.49	16.33	17.82	18.18
	4H	16.60	18.06	17.00	18.41	18.78	16.60	18.06	17.00	18.41	18.78
	6H	17.07	18.42	17.48	18.78	19.17	17.07	18.42	17.48	18.78	19.17
	8H	17.21	18.50	17.63	18.89	19.29	17.21	18.50	17.63	18.89	19.29
	12H	17.29	18.53	17.72	18.92	19.34	17.29	18.53	17.72	18.92	19.34
4H	2H	14.80	16.25	15.19	16.60	16.97	14.80	16.25	15.19	16.60	16.97
	3H	16.81	18.04	17.22	18.43	18.83	16.81	18.04	17.22	18.43	18.83
	4H	17.59	18.70	18.02	19.11	19.55	17.59	18.70	18.02	19.11	19.55
	6H	18.17	19.15	18.63	19.59	20.04	18.17	19.15	18.63	19.59	20.04
	8H	18.36	19.27	18.82	19.71	20.17	18.36	19.27	18.82	19.71	20.17
	12H	18.49	19.31	18.97	19.78	20.25	18.49	19.31	18.97	19.78	20.25
8H	4H	17.90	18.81	18.36	19.25	19.71	17.90	18.81	18.36	19.25	19.71
	6H	18.60	19.36	19.09	19.84	20.31	18.60	19.36	19.09	19.84	20.31
	8H	18.85	19.53	19.35	20.03	20.52	18.85	19.53	19.35	20.03	20.52
	12H	19.04	19.64	19.54	20.13	20.69	19.04	19.64	19.54	20.13	20.69
12H	4H	17.93	18.75	18.41	19.23	19.70	17.93	18.75	18.41	19.23	19.70
	6H	18.65	19.33	19.15	19.83	20.32	18.65	19.33	19.15	19.83	20.32
	8H	18.95	19.56	19.46	20.04	20.60	18.95	19.56	19.46	20.04	20.60