

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: P866261

Luminaire Tested: PRLX-2002-M-930-65L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866261  
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-930-65L-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 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

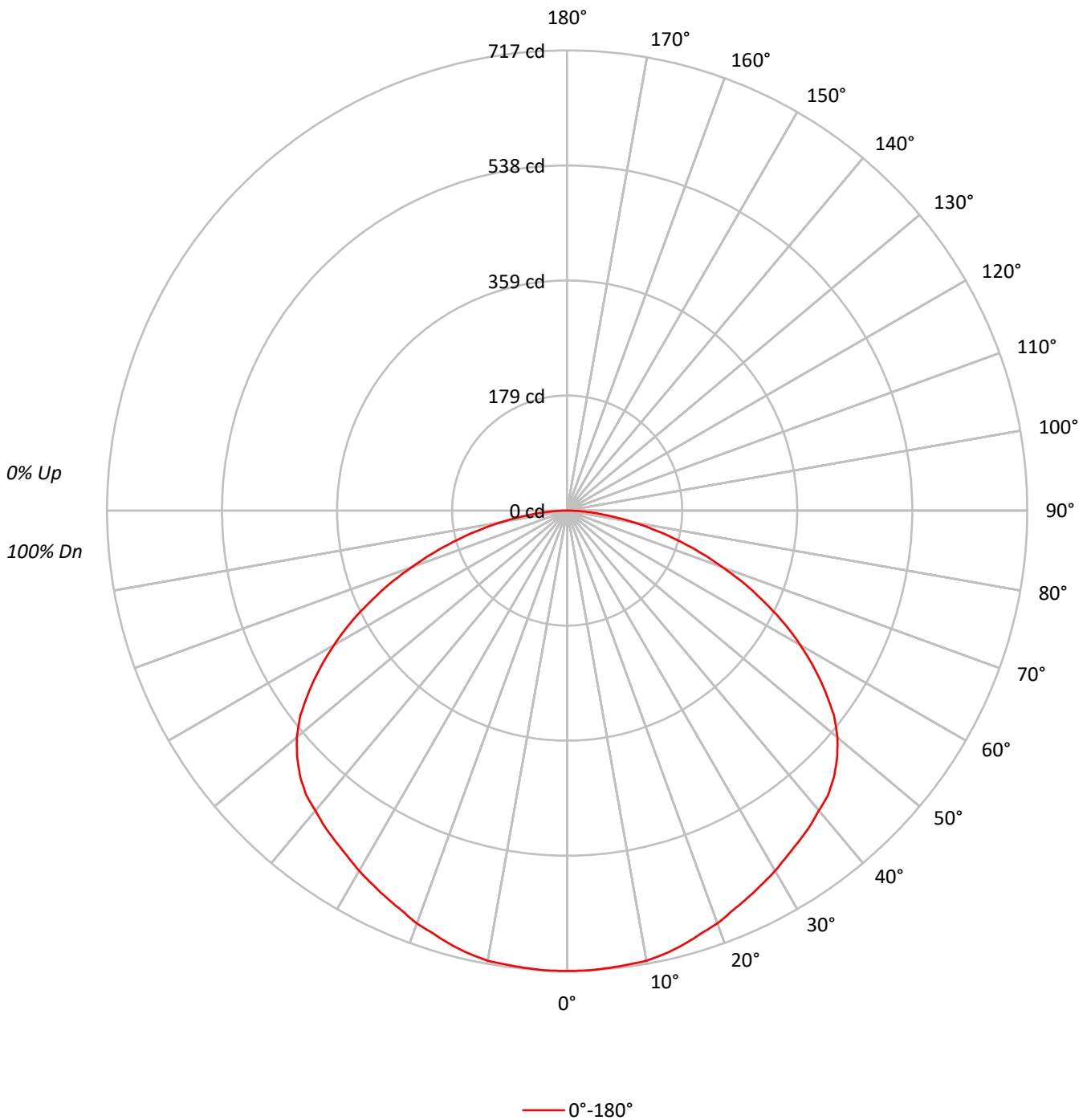
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2434.4 lumens  
Efficiency: N/A  
Efficacy: 41.5 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): 58.6  
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

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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°	5707
5°	5716
10°	5754
15°	5767
20°	5796
25°	5843
30°	5956
35°	6112
40°	6338
45°	6613
50°	6805
55°	6810
60°	6684
65°	6412
70°	5992
75°	5475
80°	4751
85°	3788

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 6845 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	2.8
10°-20°	197.8	8.1
20°-30°	307.7	12.6
30°-40°	394.9	16.2
40°-50°	452.4	18.6
50°-60°	437.6	18.0
60°-70°	337.0	13.8
70°-80°	188.9	7.8
80°-90°	49.8	2.0
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
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0°-30°	573.7	23.6
0°-40°	968.6	39.8
0°-60°	1858.6	76.3
0°-90°	2434.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	717	
5°	716	68
15°	700	198
25°	666	308
35°	629	395
45°	588	452
55°	491	438
65°	341	337
75°	178	189
85°	42	50
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	717.4
2.5°	717.4
5°	715.7
7.5°	714.0
10°	712.3
12.5°	707.1
15°	700.2
17.5°	691.5
20°	684.6
22.5°	674.2
25°	665.6
27.5°	656.9
30°	648.3
32.5°	637.9
35°	629.3
37.5°	620.6
40°	610.3
42.5°	601.6
45°	587.8
47.5°	570.5
50°	549.8
52.5°	523.8
55°	491.0
57.5°	456.4
60°	420.1
62.5°	382.1
65°	340.6
67.5°	300.8
70°	257.6
72.5°	217.8
75°	178.1
77.5°	140.0
80°	103.7
82.5°	70.9
85°	41.5
87.5°	19.0
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	19.17	20.87	19.53	21.18	21.50	19.17	20.87	19.53	21.18	21.50
	3H	20.98	22.52	21.35	22.85	23.20	20.98	22.52	21.35	22.85	23.20
	4H	21.63	23.09	22.03	23.43	23.81	21.63	23.09	22.03	23.43	23.81
	6H	22.09	23.44	22.50	23.81	24.20	22.09	23.44	22.50	23.81	24.20
	8H	22.23	23.52	22.65	23.91	24.31	22.23	23.52	22.65	23.91	24.31
	12H	22.32	23.56	22.75	23.94	24.37	22.32	23.56	22.75	23.94	24.37
4H	2H	19.82	21.28	20.22	21.62	22.00	19.82	21.28	20.22	21.62	22.00
	3H	21.84	23.06	22.25	23.46	23.86	21.84	23.06	22.25	23.46	23.86
	4H	22.62	23.73	23.05	24.14	24.57	22.62	23.73	23.05	24.14	24.57
	6H	23.20	24.17	23.65	24.61	25.06	23.20	24.17	23.65	24.61	25.06
	8H	23.38	24.29	23.84	24.74	25.20	23.38	24.29	23.84	24.74	25.20
	12H	23.51	24.33	23.99	24.81	25.27	23.51	24.33	23.99	24.81	25.27
8H	4H	22.93	23.84	23.38	24.28	24.74	22.93	23.84	23.38	24.28	24.74
	6H	23.62	24.38	24.11	24.87	25.34	23.62	24.38	24.11	24.87	25.34
	8H	23.87	24.55	24.38	25.06	25.54	23.87	24.55	24.38	25.06	25.54
	12H	24.06	24.67	24.57	25.16	25.71	24.06	24.67	24.57	25.16	25.71
12H	4H	22.96	23.78	23.44	24.25	24.72	22.96	23.78	23.44	24.25	24.72
	6H	23.67	24.36	24.18	24.86	25.34	23.67	24.36	24.18	24.86	25.34
	8H	23.98	24.58	24.48	25.07	25.63	23.98	24.58	24.48	25.07	25.63