

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: P866229

Luminaire Tested: PRLX-2002-M-930-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866229  
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-930-25L-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 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

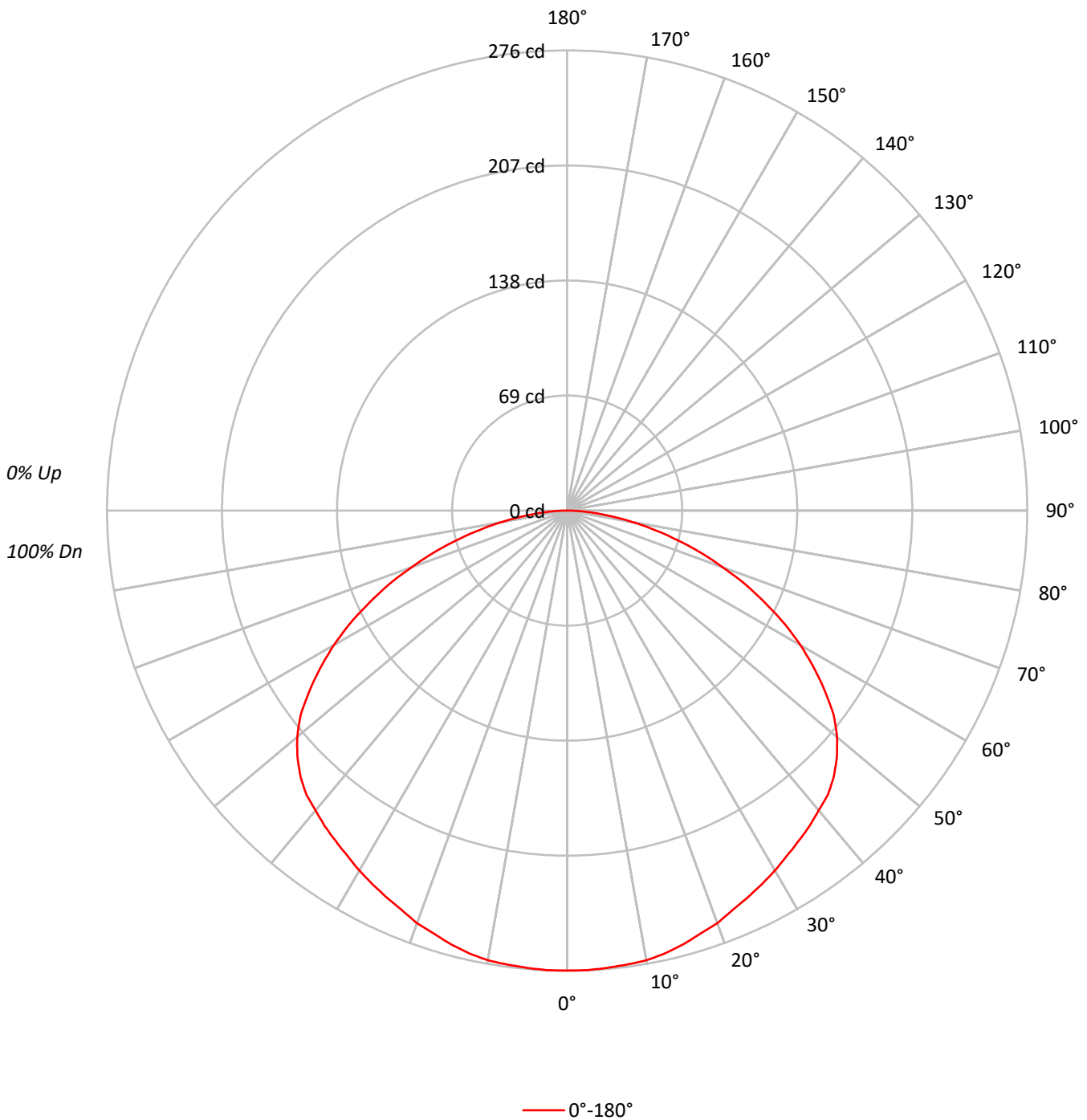
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 936.3 lumens  
Efficiency: N/A  
Efficacy: 43.1 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): 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

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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°	2195
5°	2199
10°	2213
15°	2218
20°	2229
25°	2247
30°	2290
35°	2350
40°	2437
45°	2544
50°	2616
55°	2619
60°	2571
65°	2466
70°	2305
75°	2106
80°	1828
85°	1461

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 2633 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.2	2.8
10°-20°	76.1	8.1
20°-30°	118.3	12.6
30°-40°	151.9	16.2
40°-50°	174.0	18.6
50°-60°	168.3	18.0
60°-70°	129.6	13.8
70°-80°	72.7	7.8
80°-90°	19.2	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
0°-30°	220.7	23.6
0°-40°	372.5	39.8
0°-60°	714.8	76.3
0°-90°	936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	936.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	276	
5°	275	26
15°	269	76
25°	256	118
35°	242	152
45°	226	174
55°	189	168
65°	131	130
75°	68	73
85°	16	19
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	275.9
2.5°	275.9
5°	275.3
7.5°	274.6
10°	273.9
12.5°	272.0
15°	269.3
17.5°	266.0
20°	263.3
22.5°	259.3
25°	256.0
27.5°	252.7
30°	249.3
32.5°	245.4
35°	242.0
37.5°	238.7
40°	234.7
42.5°	231.4
45°	226.1
47.5°	219.4
50°	211.4
52.5°	201.5
55°	188.8
57.5°	175.5
60°	161.6
62.5°	146.9
65°	131.0
67.5°	115.7
70°	99.1
72.5°	83.8
75°	68.5
77.5°	53.9
80°	39.9
82.5°	27.3
85°	16.0
87.5°	7.3
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	15.85	17.55	16.21	17.86	18.18	15.85	17.55	16.21	17.86	18.18
	3H	17.66	19.20	18.03	19.53	19.88	17.66	19.20	18.03	19.53	19.88
	4H	18.31	19.77	18.71	20.11	20.49	18.31	19.77	18.71	20.11	20.49
	6H	18.77	20.12	19.18	20.49	20.88	18.77	20.12	19.18	20.49	20.88
	8H	18.91	20.21	19.34	20.59	20.99	18.91	20.21	19.34	20.59	20.99
	12H	19.00	20.24	19.43	20.62	21.05	19.00	20.24	19.43	20.62	21.05
4H	2H	16.50	17.95	16.90	18.30	18.68	16.50	17.95	16.90	18.30	18.68
	3H	18.52	19.74	18.93	20.14	20.54	18.52	19.74	18.93	20.14	20.54
	4H	19.30	20.41	19.73	20.82	21.25	19.30	20.41	19.73	20.82	21.25
	6H	19.88	20.85	20.33	21.29	21.75	19.88	20.85	20.33	21.29	21.75
	8H	20.07	20.98	20.52	21.42	21.88	20.07	20.98	20.52	21.42	21.88
	12H	20.19	21.01	20.67	21.49	21.96	20.19	21.01	20.67	21.49	21.96
8H	4H	19.61	20.52	20.06	20.96	21.42	19.61	20.52	20.06	20.96	21.42
	6H	20.30	21.06	20.79	21.55	22.02	20.30	21.06	20.79	21.55	22.02
	8H	20.55	21.23	21.06	21.74	22.22	20.55	21.23	21.06	21.74	22.22
	12H	20.75	21.35	21.25	21.84	22.40	20.75	21.35	21.25	21.84	22.40
12H	4H	19.64	20.46	20.12	20.93	21.40	19.64	20.46	20.12	20.93	21.40
	6H	20.35	21.04	20.86	21.54	22.03	20.35	21.04	20.86	21.54	22.03
	8H	20.66	21.26	21.16	21.75	22.31	20.66	21.26	21.16	21.75	22.31