

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: P866297

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-935-25L-L-U-S-X-X-BRSS-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

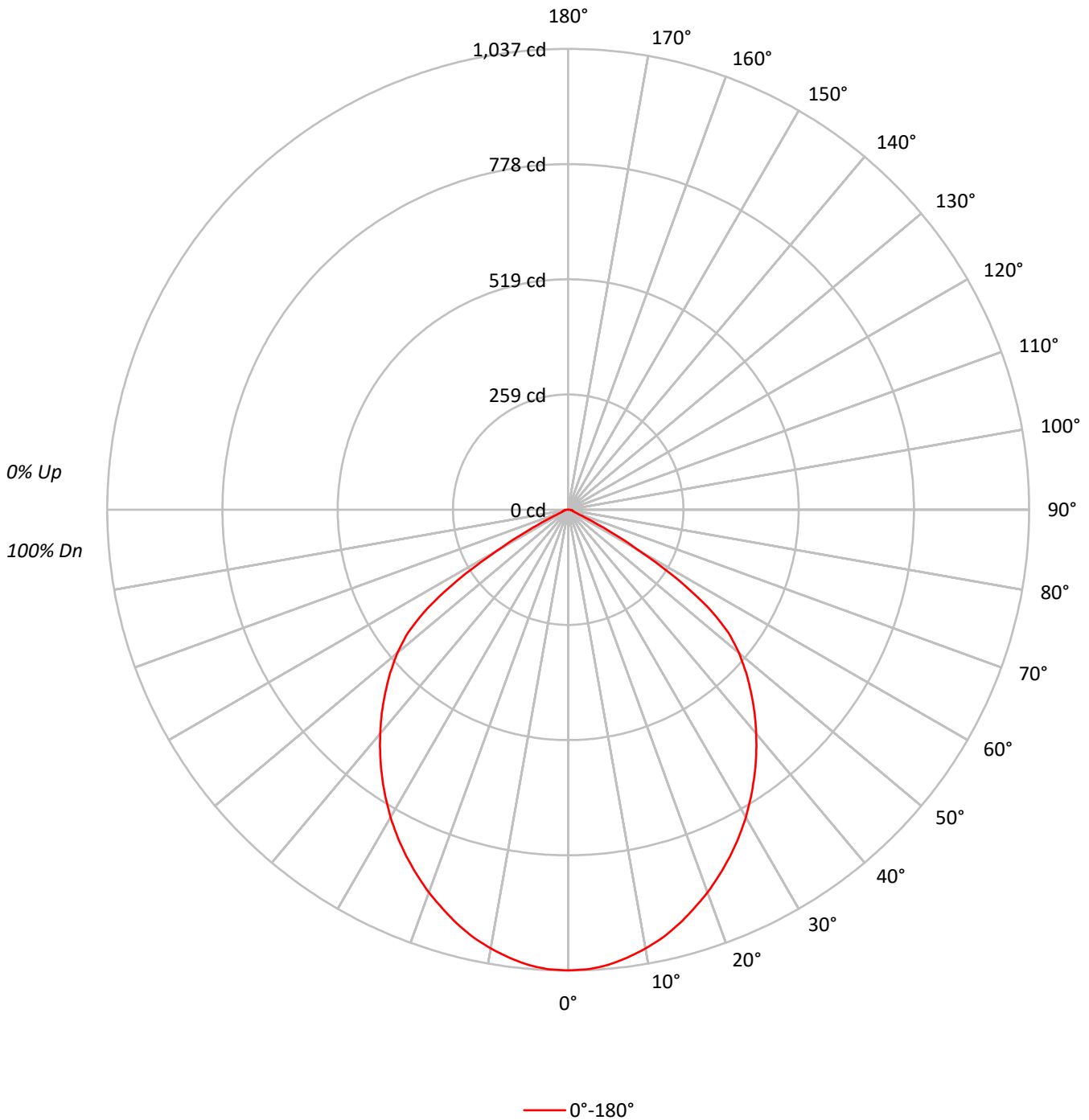
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2081.3 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
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	111	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84		89	85	82		86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73		80	76	72		78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64		73	67	63		71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45		55	49	45		54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	37		46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34		44	38	33		43	37	33	32

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

	0°
0°	8247
5°	8213
10°	8100
15°	7946
20°	7759
25°	7557
30°	7341
35°	7096
40°	6834
45°	6541
50°	6205
55°	5344
60°	2947
65°	830
70°	330
75°	353
80°	403
85°	493

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6541 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	4.7
10°-20°	271.6	13.1
20°-30°	396.4	19.0
30°-40°	456.7	21.9
40°-50°	448.4	21.5
50°-60°	328.8	15.8
60°-70°	64.4	3.1
70°-80°	12.2	0.6
80°-90°	5.4	0.3
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°	765.3	36.8
0°-40°	1222.0	58.7
0°-60°	1999.3	96.1
0°-90°	2081.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1037	
5°	1028	97
15°	965	272
25°	861	396
35°	731	457
45°	581	448
55°	385	329
65°	44	64
75°	12	12
85°	5	5
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1036.6
2.5°	1035.2
5°	1028.4
7.5°	1016.9
10°	1002.7
12.5°	985.7
15°	964.7
17.5°	940.9
20°	916.5
22.5°	889.4
25°	860.9
27.5°	831.0
30°	799.1
32.5°	765.2
35°	730.6
37.5°	694.7
40°	658.0
42.5°	620.7
45°	581.4
47.5°	542.7
50°	501.3
52.5°	454.5
55°	385.3
57.5°	295.1
60°	185.2
62.5°	99.7
65°	44.1
67.5°	20.4
70°	14.2
72.5°	12.9
75°	11.5
77.5°	10.2
80°	8.8
82.5°	7.5
85°	5.4
87.5°	2.7
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	16.88	18.30	17.24	18.62	18.93	16.88	18.30	17.24	18.62	18.93
	3H	16.78	18.04	17.16	18.37	18.73	16.78	18.04	17.16	18.37	18.73
	4H	16.73	17.90	17.13	18.25	18.63	16.73	17.90	17.13	18.25	18.63
	6H	16.67	17.75	17.09	18.12	18.51	16.67	17.75	17.09	18.12	18.51
	8H	16.64	17.66	17.07	18.05	18.46	16.64	17.66	17.07	18.05	18.46
	12H	16.62	17.59	17.05	17.97	18.40	16.62	17.59	17.05	17.97	18.40
4H	2H	16.74	17.91	17.14	18.26	18.64	16.74	17.91	17.14	18.26	18.64
	3H	16.65	17.60	17.07	18.00	18.40	16.65	17.60	17.07	18.00	18.40
	4H	16.59	17.43	17.03	17.85	18.29	16.59	17.43	17.03	17.85	18.29
	6H	16.55	17.27	17.01	17.72	18.18	16.55	17.27	17.01	17.72	18.18
	8H	16.51	17.19	16.98	17.64	18.11	16.51	17.19	16.98	17.64	18.11
	12H	16.49	17.09	16.97	17.57	18.05	16.49	17.09	16.97	17.57	18.05
8H	4H	16.48	17.16	16.95	17.60	18.07	16.48	17.16	16.95	17.60	18.07
	6H	16.42	16.98	16.92	17.47	17.95	16.42	16.98	16.92	17.47	17.95
	8H	16.39	16.89	16.90	17.41	17.90	16.39	16.89	16.90	17.41	17.90
	12H	16.37	16.83	16.88	17.32	17.89	16.37	16.83	16.88	17.32	17.89
12H	4H	16.44	17.04	16.92	17.52	17.99	16.44	17.04	16.92	17.52	17.99
	6H	16.36	16.87	16.88	17.38	17.87	16.36	16.87	16.88	17.38	17.87
	8H	16.35	16.81	16.86	17.30	17.87	16.35	16.81	16.86	17.30	17.87