

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: P866223

Luminaire Tested: PRLX-2002-M-930-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-930-15L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

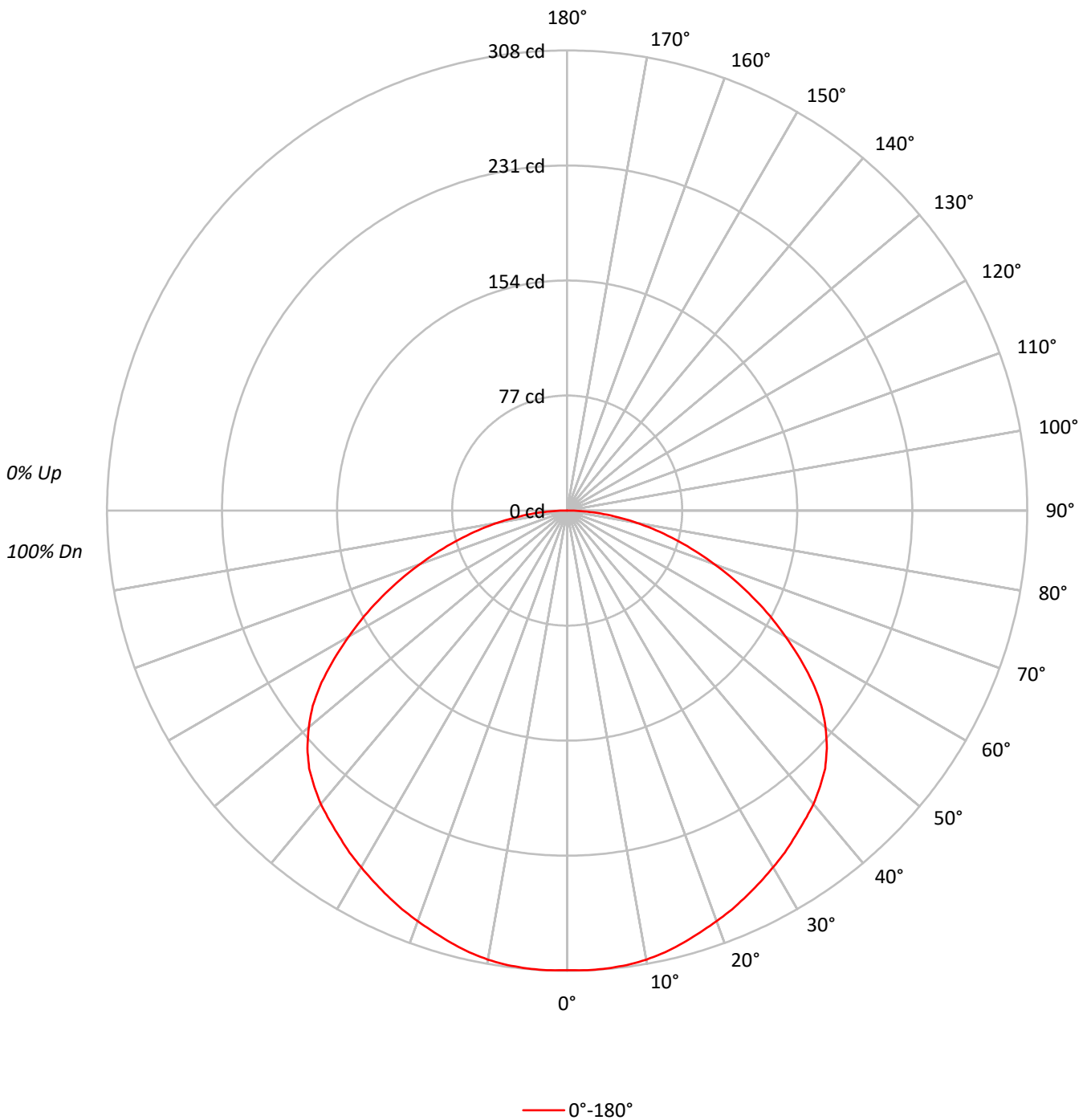
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1018.6 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5  
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: 0.333 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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
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	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

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

	0°
0°	2447
5°	2457
10°	2466
15°	2468
20°	2476
25°	2497
30°	2533
35°	2584
40°	2664
45°	2748
50°	2795
55°	2784
60°	2686
65°	2575
70°	2440
75°	2305
80°	2176
85°	2036

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 2805 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.3	2.9
10°-20°	84.7	8.3
20°-30°	131.4	12.9
30°-40°	167.0	16.4
40°-50°	187.8	18.4
50°-60°	178.4	17.5
60°-70°	135.5	13.3
70°-80°	79.6	7.8
80°-90°	24.9	2.4
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°	245.3	24.1
0°-40°	412.3	40.5
0°-60°	778.5	76.4
0°-90°	1018.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1018.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	308	
5°	308	29
15°	300	85
25°	284	131
35°	266	167
45°	244	188
55°	201	178
65°	137	136
75°	75	80
85°	22	25
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	307.6
2.5°	308.0
5°	307.6
7.5°	306.8
10°	305.2
12.5°	302.8
15°	299.6
17.5°	296.0
20°	292.4
22.5°	288.8
25°	284.5
27.5°	280.1
30°	275.7
32.5°	271.3
35°	266.1
37.5°	261.3
40°	256.5
42.5°	250.5
45°	244.2
47.5°	235.8
50°	225.8
52.5°	214.6
55°	200.7
57.5°	185.1
60°	168.8
62.5°	153.2
65°	136.8
67.5°	120.9
70°	104.9
72.5°	89.8
75°	75.0
77.5°	61.0
80°	47.5
82.5°	34.3
85°	22.3
87.5°	11.2
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	15.93	17.62	16.29	17.94	18.25	15.93	17.62	16.29	17.94	18.25
	3H	17.73	19.26	18.10	19.59	19.95	17.73	19.26	18.10	19.59	19.95
	4H	18.42	19.87	18.82	20.22	20.59	18.42	19.87	18.82	20.22	20.59
	6H	18.97	20.32	19.38	20.68	21.07	18.97	20.32	19.38	20.68	21.07
	8H	19.16	20.45	19.58	20.84	21.24	19.16	20.45	19.58	20.84	21.24
	12H	19.30	20.54	19.73	20.92	21.35	19.30	20.54	19.73	20.92	21.35
4H	2H	16.56	18.01	16.96	18.36	18.74	16.56	18.01	16.96	18.36	18.74
	3H	18.59	19.81	19.00	20.21	20.61	18.59	19.81	19.00	20.21	20.61
	4H	19.42	20.53	19.85	20.94	21.37	19.42	20.53	19.85	20.94	21.37
	6H	20.11	21.08	20.56	21.52	21.97	20.11	21.08	20.56	21.52	21.97
	8H	20.36	21.27	20.81	21.71	22.17	20.36	21.27	20.81	21.71	22.17
	12H	20.55	21.38	21.03	21.85	22.32	20.55	21.38	21.03	21.85	22.32
8H	4H	19.76	20.67	20.22	21.11	21.57	19.76	20.67	20.22	21.11	21.57
	6H	20.58	21.34	21.07	21.83	22.30	20.58	21.34	21.07	21.83	22.30
	8H	20.91	21.60	21.42	22.10	22.59	20.91	21.60	21.42	22.10	22.59
	12H	21.20	21.81	21.71	22.30	22.85	21.20	21.81	21.71	22.30	22.85
12H	4H	19.80	20.62	20.28	21.10	21.57	19.80	20.62	20.28	21.10	21.57
	6H	20.65	21.34	21.16	21.84	22.33	20.65	21.34	21.16	21.84	22.33
	8H	21.05	21.66	21.56	22.15	22.71	21.05	21.66	21.56	22.15	22.71