

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: P866287

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866287  
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-935-15L-G-U-S-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

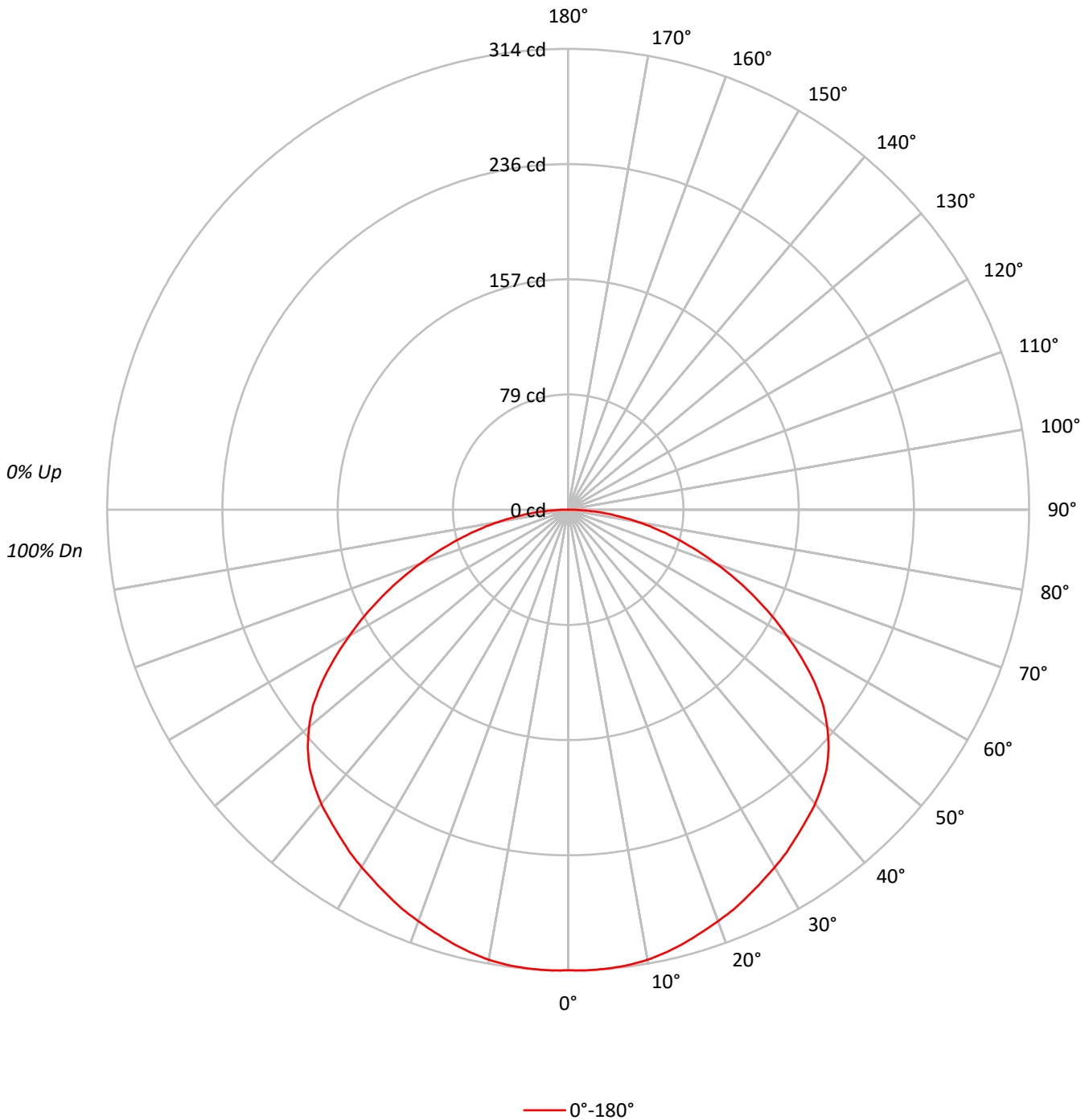
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1039.3 lumens  
Efficiency: N/A  
Efficacy: 74.2 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°	2497
5°	2506
10°	2516
15°	2518
20°	2526
25°	2547
30°	2584
35°	2637
40°	2718
45°	2803
50°	2852
55°	2839
60°	2740
65°	2628
70°	2489
75°	2352
80°	2217
85°	2081

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 2862 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.9	2.9
10°-20°	86.4	8.3
20°-30°	134.0	12.9
30°-40°	170.4	16.4
40°-50°	191.6	18.4
50°-60°	182.0	17.5
60°-70°	138.3	13.3
70°-80°	81.3	7.8
80°-90°	25.4	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°	250.3	24.1
0°-40°	420.7	40.5
0°-60°	794.3	76.4
0°-90°	1039.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	314	
5°	314	30
15°	306	86
25°	290	134
35°	272	170
45°	249	192
55°	205	182
65°	140	138
75°	76	81
85°	23	25
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	313.8
2.5°	314.2
5°	313.8
7.5°	313.0
10°	311.4
12.5°	308.9
15°	305.7
17.5°	302.0
20°	298.4
22.5°	294.7
25°	290.2
27.5°	285.7
30°	281.3
32.5°	276.8
35°	271.5
37.5°	266.6
40°	261.7
42.5°	255.6
45°	249.1
47.5°	240.6
50°	230.4
52.5°	219.0
55°	204.7
57.5°	188.9
60°	172.2
62.5°	156.3
65°	139.6
67.5°	123.3
70°	107.0
72.5°	91.6
75°	76.5
77.5°	62.3
80°	48.4
82.5°	35.0
85°	22.8
87.5°	11.4
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	16.00	17.69	16.36	18.01	18.32	16.00	17.69	16.36	18.01	18.32
	3H	17.80	19.33	18.17	19.66	20.02	17.80	19.33	18.17	19.66	20.02
	4H	18.49	19.94	18.89	20.29	20.66	18.49	19.94	18.89	20.29	20.66
	6H	19.04	20.39	19.45	20.75	21.14	19.04	20.39	19.45	20.75	21.14
	8H	19.23	20.52	19.65	20.91	21.31	19.23	20.52	19.65	20.91	21.31
	12H	19.37	20.61	19.80	20.99	21.42	19.37	20.61	19.80	20.99	21.42
4H	2H	16.63	18.09	17.03	18.43	18.81	16.63	18.09	17.03	18.43	18.81
	3H	18.66	19.88	19.07	20.28	20.68	18.66	19.88	19.07	20.28	20.68
	4H	19.49	20.60	19.92	21.01	21.44	19.49	20.60	19.92	21.01	21.44
	6H	20.18	21.15	20.63	21.59	22.04	20.18	21.15	20.63	21.59	22.04
	8H	20.43	21.34	20.88	21.78	22.24	20.43	21.34	20.88	21.78	22.24
	12H	20.62	21.45	21.10	21.92	22.39	20.62	21.45	21.10	21.92	22.39
8H	4H	19.83	20.74	20.28	21.18	21.64	19.83	20.74	20.28	21.18	21.64
	6H	20.65	21.41	21.14	21.90	22.37	20.65	21.41	21.14	21.90	22.37
	8H	20.98	21.67	21.49	22.17	22.66	20.98	21.67	21.49	22.17	22.66
	12H	21.27	21.88	21.78	22.37	22.92	21.27	21.88	21.78	22.37	22.92
12H	4H	19.87	20.69	20.35	21.17	21.64	19.87	20.69	20.35	21.17	21.64
	6H	20.72	21.41	21.23	21.91	22.40	20.72	21.41	21.23	21.91	22.40
	8H	21.12	21.73	21.63	22.22	22.77	21.12	21.73	21.63	22.22	22.77