

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: P866352

Luminaire Tested: PRLX-2002-M-940-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-940-15L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

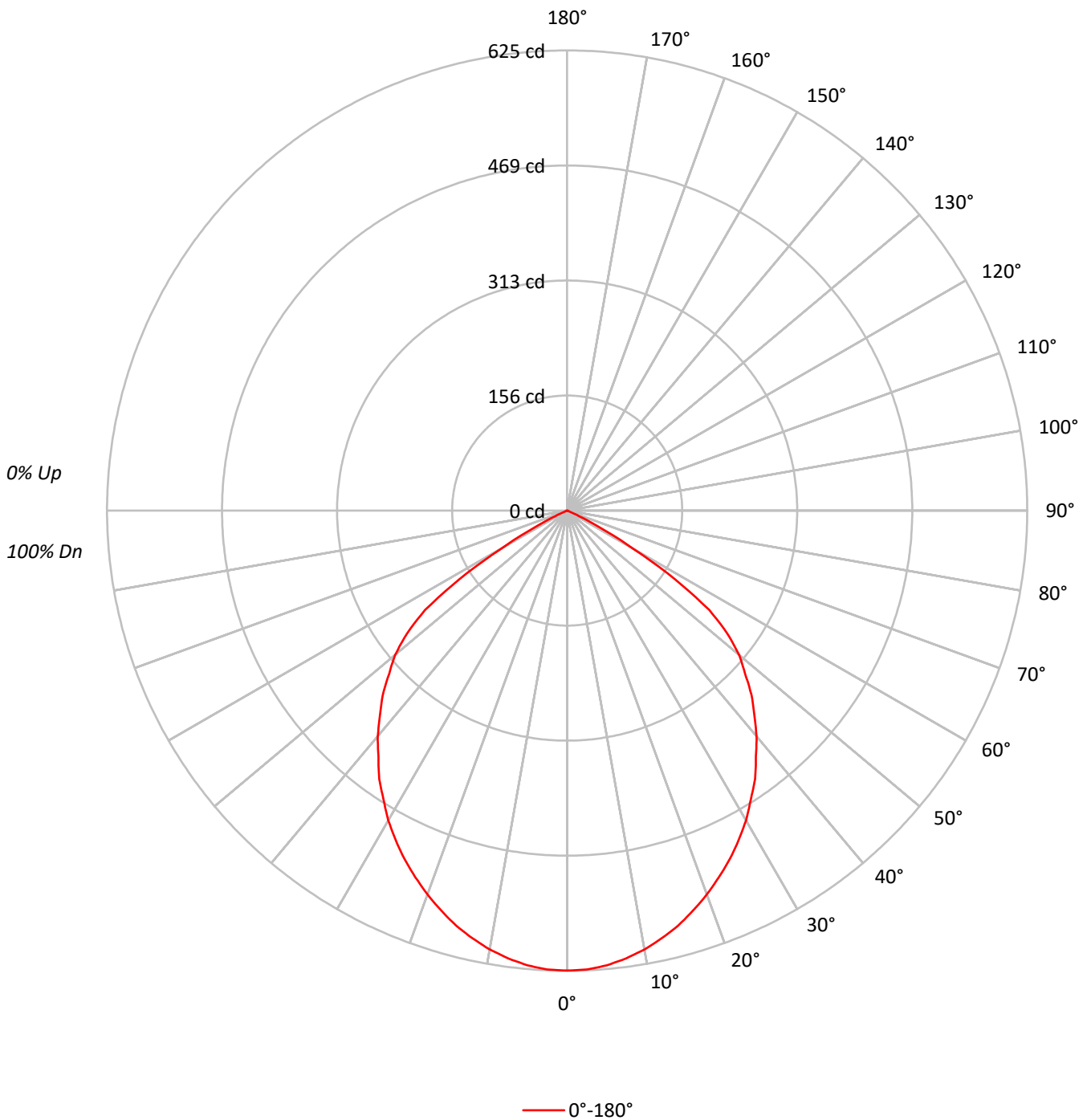
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1242.9 lumens  
Efficiency: N/A  
Efficacy: 88.8 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): 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: 0.5 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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

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

	0°
0°	4970
5°	4951
10°	4890
15°	4804
20°	4698
25°	4587
30°	4464
35°	4322
40°	4156
45°	3984
50°	3775
55°	3269
60°	1672
65°	324
70°	30
75°	40
80°	41
85°	37

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3984 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.7	4.7
10°-20°	164.2	13.2
20°-30°	240.5	19.4
30°-40°	277.5	22.3
40°-50°	272.1	21.9
50°-60°	197.7	15.9
60°-70°	30.3	2.4
70°-80°	1.2	0.1
80°-90°	0.6	0.0
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°	463.4	37.3
0°-40°	740.9	59.6
0°-60°	1210.8	97.4
0°-90°	1242.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	625	
5°	620	59
15°	583	164
25°	523	240
35°	445	278
45°	354	272
55°	236	198
65°	17	30
75°	1	1
85°	0	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	624.7
2.5°	623.8
5°	619.9
7.5°	613.5
10°	605.3
12.5°	594.9
15°	583.3
17.5°	569.5
20°	554.9
22.5°	538.9
25°	522.6
27.5°	504.5
30°	485.9
32.5°	464.4
35°	445.0
37.5°	421.3
40°	400.2
42.5°	376.1
45°	354.1
47.5°	327.8
50°	305.0
52.5°	274.4
55°	235.7
57.5°	174.0
60°	105.1
62.5°	50.0
65°	17.2
67.5°	4.3
70°	1.3
72.5°	1.3
75°	1.3
77.5°	0.9
80°	0.9
82.5°	0.9
85°	0.4
87.5°	0.4
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	15.00	16.42	15.37	16.73	17.04	15.00	16.42	15.37	16.73	17.04
	3H	14.89	16.13	15.27	16.46	16.82	14.89	16.13	15.27	16.46	16.82
	4H	14.82	15.97	15.22	16.32	16.70	14.82	15.97	15.22	16.32	16.70
	6H	14.75	15.80	15.16	16.17	16.57	14.75	15.80	15.16	16.17	16.57
	8H	14.71	15.71	15.14	16.10	16.50	14.71	15.71	15.14	16.10	16.50
	12H	14.67	15.63	15.10	16.01	16.44	14.67	15.63	15.10	16.01	16.44
4H	2H	14.84	15.99	15.24	16.34	16.73	14.84	15.99	15.24	16.34	16.73
	3H	14.73	15.65	15.14	16.06	16.46	14.73	15.65	15.14	16.06	16.46
	4H	14.65	15.47	15.08	15.89	16.33	14.65	15.47	15.08	15.89	16.33
	6H	14.57	15.28	15.03	15.72	16.19	14.57	15.28	15.03	15.72	16.19
	8H	14.52	15.18	14.98	15.62	16.09	14.52	15.18	14.98	15.62	16.09
	12H	14.47	15.06	14.96	15.54	16.01	14.47	15.06	14.96	15.54	16.01
8H	4H	14.51	15.17	14.98	15.62	16.09	14.51	15.17	14.98	15.62	16.09
	6H	14.41	14.96	14.91	15.45	15.93	14.41	14.96	14.91	15.45	15.93
	8H	14.35	14.84	14.87	15.35	15.85	14.35	14.84	14.87	15.35	15.85
	12H	14.30	14.74	14.81	15.23	15.80	14.30	14.74	14.81	15.23	15.80
12H	4H	14.47	15.05	14.95	15.54	16.01	14.47	15.05	14.95	15.54	16.01
	6H	14.34	14.84	14.86	15.35	15.85	14.34	14.84	14.86	15.35	15.85
	8H	14.30	14.74	14.81	15.23	15.80	14.30	14.74	14.81	15.23	15.80