

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: P866200

Luminaire Tested: PRLX-2002-M-927-65L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866200  
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-927-65L-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 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

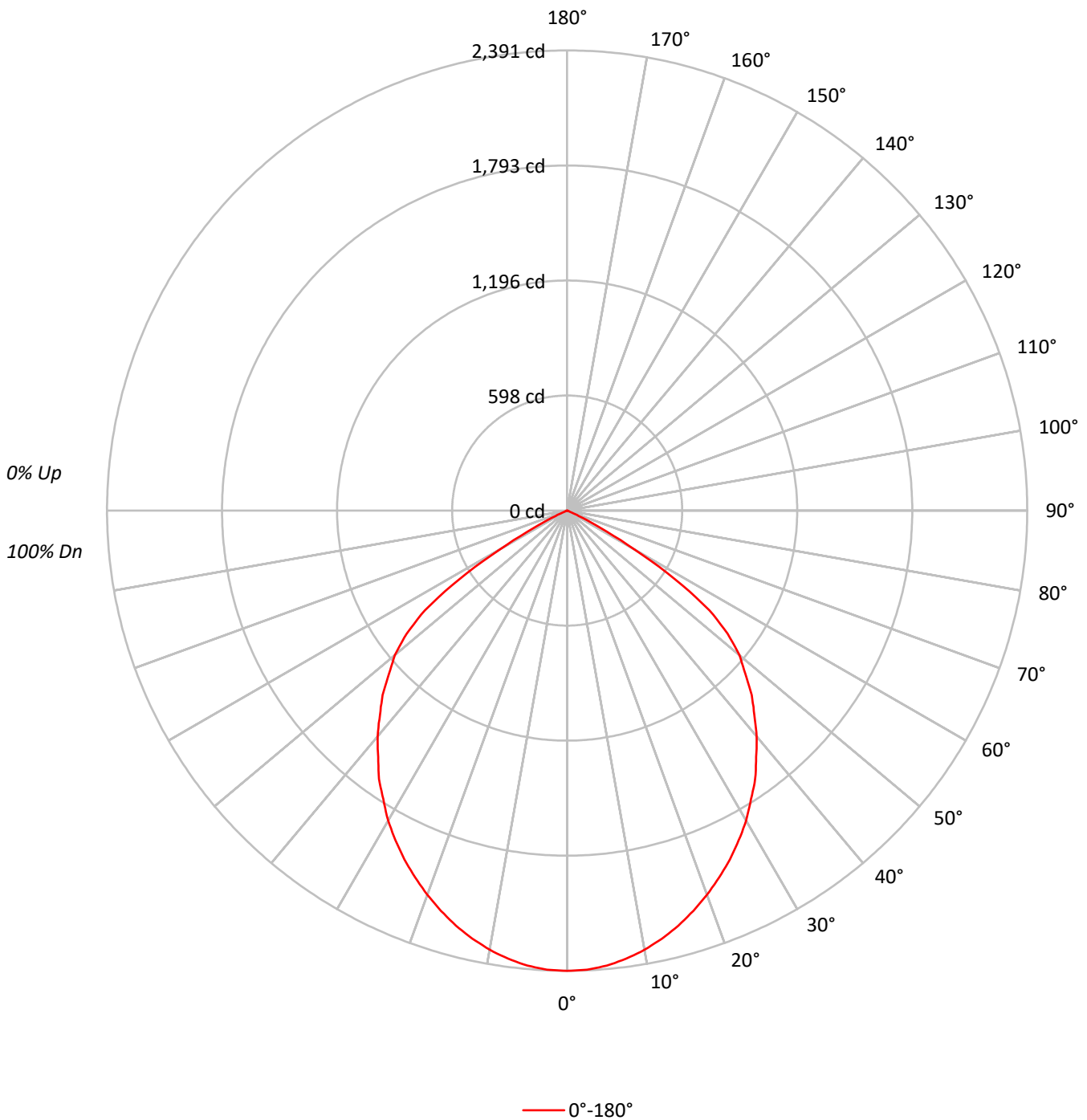
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4758.1 lumens  
Efficiency: N/A  
Efficacy: 81.2 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): 58.6  
Input Voltage (V): 120  
Input Current (Ain): 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°	19025
5°	18954
10°	18719
15°	18393
20°	17984
25°	17561
30°	17090
35°	16547
40°	15912
45°	15253
50°	14453
55°	12513
60°	6403
65°	1242
70°	114
75°	151
80°	151
85°	146

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15253 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.7	4.7
10°-20°	628.7	13.2
20°-30°	920.7	19.3
30°-40°	1062.5	22.3
40°-50°	1041.7	21.9
50°-60°	757.0	15.9
60°-70°	116.1	2.4
70°-80°	4.5	0.1
80°-90°	2.2	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°	1774.1	37.3
0°-40°	2836.6	59.6
0°-60°	4635.3	97.4
0°-90°	4758.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4758.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2391	
5°	2373	225
15°	2233	629
25°	2000	921
35°	1704	1062
45°	1356	1042
55°	902	757
65°	66	116
75°	5	5
85°	2	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2391.4
2.5°	2388.1
5°	2373.3
7.5°	2348.5
10°	2317.2
12.5°	2277.6
15°	2233.1
17.5°	2180.3
20°	2124.2
22.5°	2063.2
25°	2000.5
27.5°	1931.3
30°	1860.3
32.5°	1777.9
35°	1703.7
37.5°	1613.0
40°	1532.1
42.5°	1439.8
45°	1355.7
47.5°	1255.1
50°	1167.7
52.5°	1050.6
55°	902.1
57.5°	666.3
60°	402.4
62.5°	191.3
65°	66.0
67.5°	16.5
70°	4.9
72.5°	4.9
75°	4.9
77.5°	3.3
80°	3.3
82.5°	3.3
85°	1.6
87.5°	1.6
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	19.67	21.08	20.03	21.40	21.71	19.67	21.08	20.03	21.40	21.71
	3H	19.55	20.79	19.93	21.12	21.49	19.55	20.79	19.93	21.12	21.49
	4H	19.49	20.64	19.89	20.99	21.37	19.49	20.64	19.89	20.99	21.37
	6H	19.41	20.47	19.83	20.84	21.23	19.41	20.47	19.83	20.84	21.23
	8H	19.37	20.37	19.80	20.77	21.17	19.37	20.37	19.80	20.77	21.17
	12H	19.34	20.29	19.77	20.67	21.10	19.34	20.29	19.77	20.67	21.10
4H	2H	19.51	20.66	19.91	21.01	21.39	19.51	20.66	19.91	21.01	21.39
	3H	19.39	20.32	19.80	20.72	21.12	19.39	20.32	19.80	20.72	21.12
	4H	19.31	20.13	19.75	20.55	20.99	19.31	20.13	19.75	20.55	20.99
	6H	19.24	19.94	19.70	20.39	20.85	19.24	19.94	19.70	20.39	20.85
	8H	19.18	19.84	19.65	20.29	20.76	19.18	19.84	19.65	20.29	20.76
	12H	19.14	19.72	19.62	20.20	20.68	19.14	19.72	19.62	20.20	20.68
8H	4H	19.18	19.84	19.65	20.29	20.76	19.18	19.84	19.65	20.29	20.76
	6H	19.08	19.62	19.58	20.12	20.60	19.08	19.62	19.58	20.12	20.60
	8H	19.01	19.51	19.53	20.02	20.51	19.01	19.51	19.53	20.02	20.51
	12H	18.96	19.41	19.47	19.90	20.47	18.96	19.41	19.47	19.90	20.47
12H	4H	19.13	19.72	19.62	20.20	20.68	19.13	19.72	19.62	20.20	20.68
	6H	19.01	19.51	19.53	20.02	20.51	19.01	19.51	19.53	20.02	20.51
	8H	18.96	19.41	19.47	19.90	20.47	18.96	19.41	19.47	19.90	20.47