

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: P866199

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866199  
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-927-65L-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 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

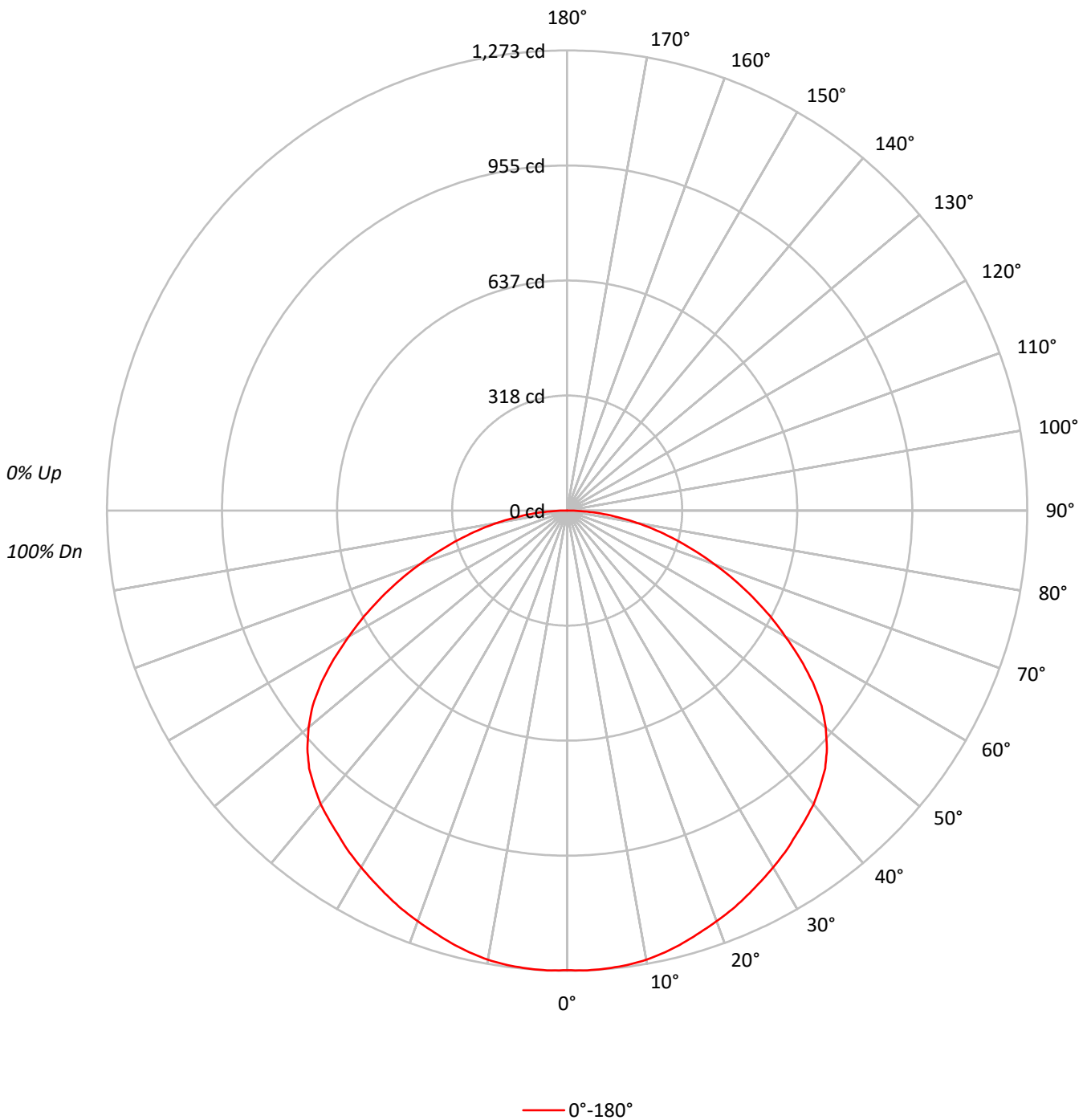
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4211.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 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): 58.6  
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°	10117
5°	10155
10°	10193
15°	10202
20°	10235
25°	10322
30°	10469
35°	10683
40°	11014
45°	11356
50°	11554
55°	11507
60°	11100
65°	10649
70°	10088
75°	9532
80°	8994
85°	8434

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 11596 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	2.9
10°-20°	350.0	8.3
20°-30°	543.1	12.9
30°-40°	690.3	16.4
40°-50°	776.4	18.4
50°-60°	737.6	17.5
60°-70°	560.2	13.3
70°-80°	329.3	7.8
80°-90°	103.0	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°	1014.2	24.1
0°-40°	1704.5	40.5
0°-60°	3218.4	76.4
0°-90°	4211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1272	
5°	1272	121
15°	1239	350
25°	1176	543
35°	1100	690
45°	1009	776
55°	830	738
65°	566	560
75°	310	329
85°	92	103
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1271.6
2.5°	1273.2
5°	1271.6
7.5°	1268.3
10°	1261.7
12.5°	1251.8
15°	1238.6
17.5°	1223.7
20°	1208.9
22.5°	1194.0
25°	1175.9
27.5°	1157.8
30°	1139.6
32.5°	1121.5
35°	1100.0
37.5°	1080.3
40°	1060.5
42.5°	1035.7
45°	1009.3
47.5°	974.7
50°	933.5
52.5°	887.3
55°	829.6
57.5°	765.2
60°	697.6
62.5°	633.3
65°	565.7
67.5°	499.7
70°	433.7
72.5°	371.1
75°	310.1
77.5°	252.3
80°	196.3
82.5°	141.8
85°	92.4
87.5°	46.2
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	20.86	22.55	21.22	22.87	23.18	20.86	22.55	21.22	22.87	23.18
	3H	22.66	24.19	23.03	24.52	24.88	22.66	24.19	23.03	24.52	24.88
	4H	23.35	24.80	23.75	25.15	25.52	23.35	24.80	23.75	25.15	25.52
	6H	23.90	25.25	24.31	25.61	26.00	23.90	25.25	24.31	25.61	26.00
	8H	24.09	25.38	24.52	25.77	26.17	24.09	25.38	24.52	25.77	26.17
	12H	24.24	25.47	24.66	25.85	26.28	24.24	25.47	24.66	25.85	26.28
4H	2H	21.49	22.95	21.89	23.29	23.67	21.49	22.95	21.89	23.29	23.67
	3H	23.52	24.74	23.93	25.14	25.54	23.52	24.74	23.93	25.14	25.54
	4H	24.35	25.46	24.78	25.87	26.30	24.35	25.46	24.78	25.87	26.30
	6H	25.04	26.01	25.49	26.45	26.90	25.04	26.01	25.49	26.45	26.90
	8H	25.29	26.20	25.75	26.64	27.10	25.29	26.20	25.75	26.64	27.10
	12H	25.49	26.31	25.96	26.78	27.25	25.49	26.31	25.96	26.78	27.25
8H	4H	24.69	25.60	25.15	26.04	26.50	24.69	25.60	25.15	26.04	26.50
	6H	25.51	26.27	26.00	26.76	27.23	25.51	26.27	26.00	26.76	27.23
	8H	25.85	26.53	26.35	27.03	27.52	25.85	26.53	26.35	27.03	27.52
	12H	26.13	26.74	26.64	27.23	27.79	26.13	26.74	26.64	27.23	27.79
12H	4H	24.73	25.56	25.21	26.03	26.50	24.73	25.56	25.21	26.03	26.50
	6H	25.59	26.27	26.09	26.78	27.26	25.59	26.27	26.09	26.78	27.26
	8H	25.98	26.59	26.49	27.08	27.64	25.98	26.59	26.49	27.08	27.64