

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: P866993

Luminaire Tested: PRLX-2002-L-930-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-930-117L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

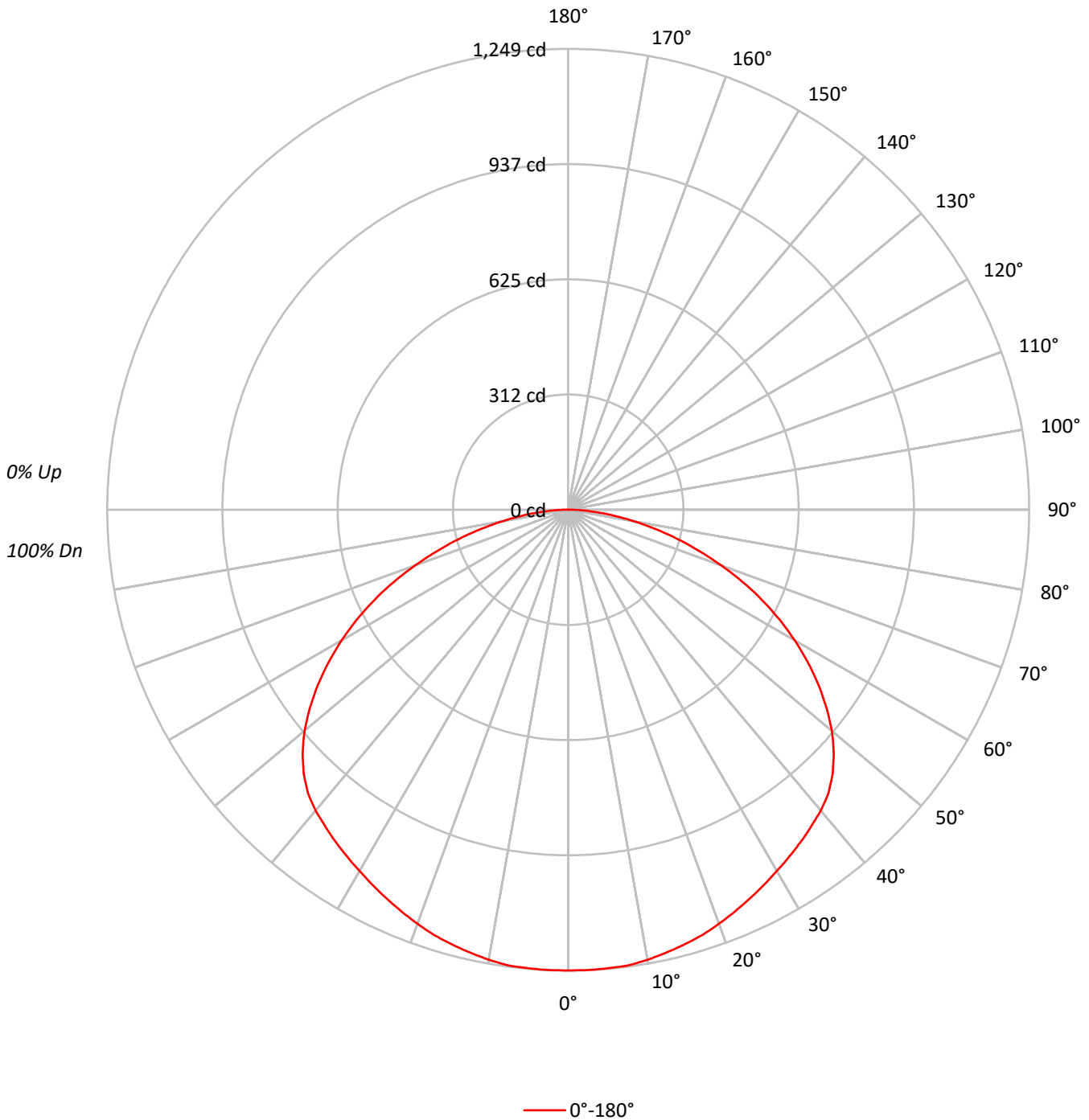
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4194.4 lumens  
Efficiency: N/A  
Efficacy: 44.1 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
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	65	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	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	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	34	29		40	34	29	27
9	55	41	32	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	28	24		34	28	24	22

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

	0°
0°	6161
5°	6180
10°	6206
15°	6230
20°	6271
25°	6332
30°	6443
35°	6618
40°	6856
45°	7069
50°	7158
55°	7121
60°	6996
65°	6772
70°	6363
75°	5837
80°	5208
85°	4274

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 7158 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	2.8
10°-20°	344.8	8.2
20°-30°	537.5	12.8
30°-40°	689.1	16.4
40°-50°	779.0	18.6
50°-60°	738.5	17.6
60°-70°	572.1	13.6
70°-80°	325.3	7.8
80°-90°	89.3	2.1
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°	1001.1	23.9
0°-40°	1690.2	40.3
0°-60°	3207.7	76.5
0°-90°	4194.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4194.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1249	
5°	1248	119
15°	1220	345
25°	1163	537
35°	1099	689
45°	1013	779
55°	828	739
65°	580	572
75°	306	325
85°	76	89
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1248.8
2.5°	1248.8
5°	1247.8
7.5°	1245.8
10°	1238.7
12.5°	1229.6
15°	1219.6
17.5°	1208.5
20°	1194.4
22.5°	1179.3
25°	1163.2
27.5°	1147.1
30°	1130.9
32.5°	1114.8
35°	1098.7
37.5°	1081.6
40°	1064.5
42.5°	1043.3
45°	1013.1
47.5°	975.9
50°	932.6
52.5°	882.2
55°	827.8
57.5°	770.4
60°	709.0
62.5°	645.5
65°	580.1
67.5°	511.6
70°	441.1
72.5°	372.6
75°	306.2
77.5°	242.7
80°	183.3
82.5°	126.9
85°	75.5
87.5°	34.2
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	19.26	20.96	19.63	21.27	21.59	19.26	20.96	19.63	21.27	21.59
	3H	21.10	22.64	21.48	22.96	23.32	21.10	22.64	21.48	22.96	23.32
	4H	21.77	23.22	22.17	23.57	23.94	21.77	23.22	22.17	23.57	23.94
	6H	22.26	23.60	22.67	23.97	24.36	22.26	23.60	22.67	23.97	24.36
	8H	22.41	23.70	22.83	24.09	24.49	22.41	23.70	22.83	24.09	24.49
	12H	22.51	23.75	22.94	24.13	24.56	22.51	23.75	22.94	24.13	24.56
4H	2H	19.92	21.38	20.32	21.72	22.10	19.92	21.38	20.32	21.72	22.10
	3H	21.97	23.19	22.38	23.59	23.99	21.97	23.19	22.38	23.59	23.99
	4H	22.77	23.87	23.20	24.29	24.72	22.77	23.87	23.20	24.29	24.72
	6H	23.38	24.35	23.83	24.79	25.24	23.38	24.35	23.83	24.79	25.24
	8H	23.58	24.49	24.04	24.93	25.40	23.58	24.49	24.04	24.93	25.40
	12H	23.73	24.54	24.20	25.02	25.49	23.73	24.54	24.20	25.02	25.49
8H	4H	23.09	23.99	23.54	24.43	24.90	23.09	23.99	23.54	24.43	24.90
	6H	23.82	24.58	24.31	25.06	25.54	23.82	24.58	24.31	25.06	25.54
	8H	24.09	24.77	24.60	25.27	25.76	24.09	24.77	24.60	25.27	25.76
	12H	24.30	24.91	24.81	25.39	25.95	24.30	24.91	24.81	25.39	25.95
12H	4H	23.12	23.94	23.60	24.41	24.88	23.12	23.94	23.60	24.41	24.88
	6H	23.88	24.56	24.38	25.06	25.55	23.88	24.56	24.38	25.06	25.55
	8H	24.21	24.81	24.71	25.30	25.85	24.21	24.81	24.71	25.30	25.85