

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: P867001

Luminaire Tested: PRLX-2002-L-930-133L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867001  
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: Pentalux  
Catalog Number: PRLX-2002-L-930-133L-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 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

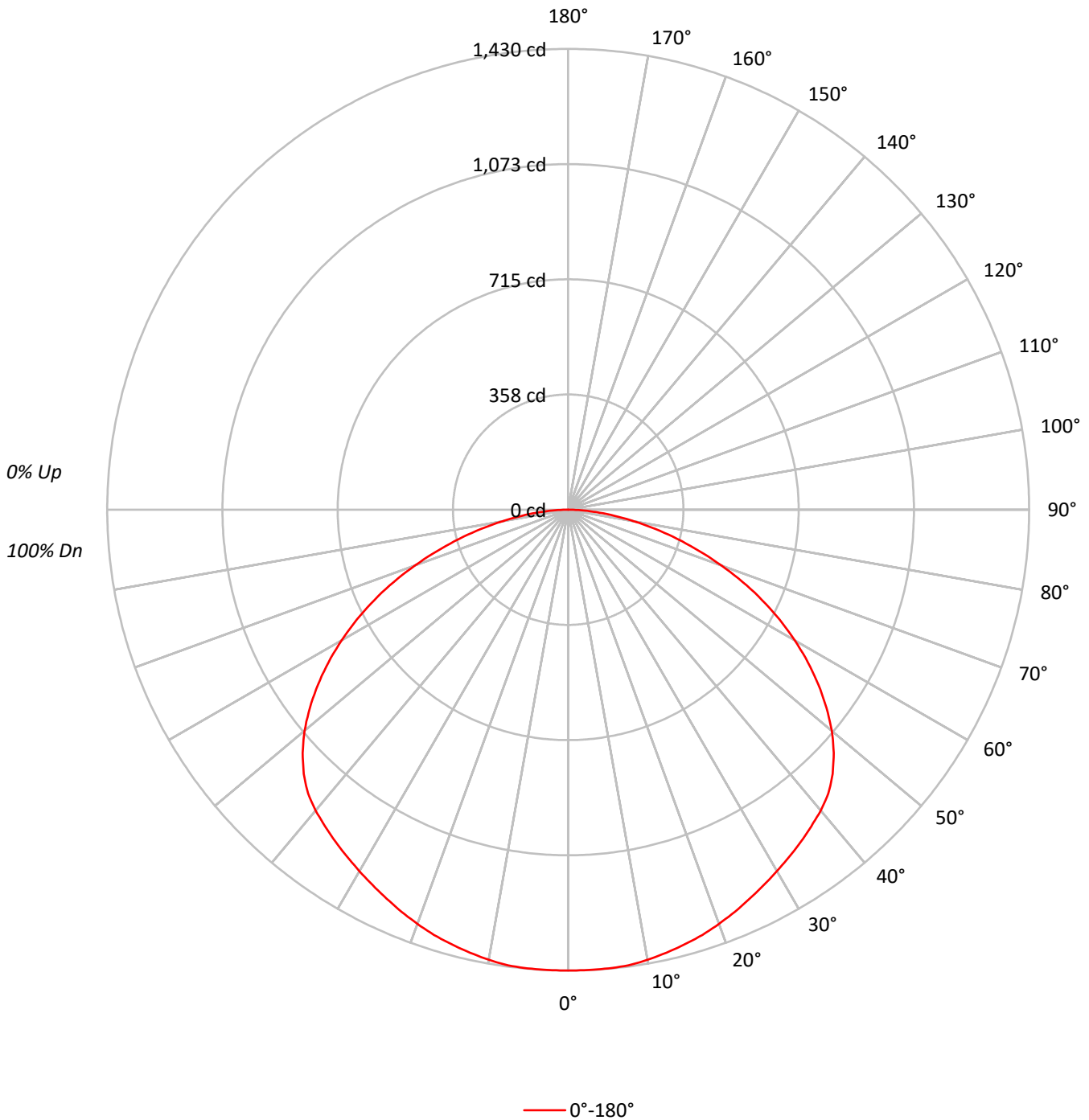
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4802.9 lumens  
Efficiency: N/A  
Efficacy: 43.0 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): 111.8  
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	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°	7055
5°	7076
10°	7106
15°	7133
20°	7181
25°	7251
30°	7378
35°	7578
40°	7850
45°	8095
50°	8197
55°	8154
60°	8011
65°	7754
70°	7286
75°	6683
80°	5964
85°	4897

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 8197 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.1	2.8
10°-20°	394.8	8.2
20°-30°	615.4	12.8
30°-40°	789.1	16.4
40°-50°	892.0	18.6
50°-60°	845.7	17.6
60°-70°	655.1	13.6
70°-80°	372.5	7.8
80°-90°	102.3	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°	1146.4	23.9
0°-40°	1935.4	40.3
0°-60°	3673.1	76.5
0°-90°	4802.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1430	
5°	1429	136
15°	1396	395
25°	1332	615
35°	1258	789
45°	1160	892
55°	948	846
65°	664	655
75°	351	372
85°	86	102
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1430.0
2.5°	1430.0
5°	1428.8
7.5°	1426.5
10°	1418.4
12.5°	1408.0
15°	1396.5
17.5°	1383.8
20°	1367.7
22.5°	1350.4
25°	1331.9
27.5°	1313.5
30°	1295.0
32.5°	1276.6
35°	1258.1
37.5°	1238.5
40°	1218.9
42.5°	1194.7
45°	1160.1
47.5°	1117.4
50°	1067.9
52.5°	1010.2
55°	947.9
57.5°	882.2
60°	811.8
62.5°	739.2
65°	664.2
67.5°	585.8
70°	505.1
72.5°	426.7
75°	350.6
77.5°	277.9
80°	209.9
82.5°	145.3
85°	86.5
87.5°	39.2
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	19.73	21.43	20.10	21.74	22.06	19.73	21.43	20.10	21.74	22.06
	3H	21.57	23.11	21.95	23.44	23.79	21.57	23.11	21.95	23.44	23.79
	4H	22.24	23.69	22.64	24.04	24.41	22.24	23.69	22.64	24.04	24.41
	6H	22.73	24.08	23.14	24.44	24.83	22.73	24.08	23.14	24.44	24.83
	8H	22.88	24.17	23.31	24.56	24.96	22.88	24.17	23.31	24.56	24.96
	12H	22.98	24.22	23.41	24.60	25.03	22.98	24.22	23.41	24.60	25.03
4H	2H	20.40	21.85	20.79	22.19	22.57	20.40	21.85	20.79	22.19	22.57
	3H	22.44	23.67	22.85	24.06	24.46	22.44	23.67	22.85	24.06	24.46
	4H	23.24	24.35	23.67	24.76	25.19	23.24	24.35	23.67	24.76	25.19
	6H	23.85	24.82	24.30	25.26	25.71	23.85	24.82	24.30	25.26	25.71
	8H	24.05	24.96	24.51	25.40	25.87	24.05	24.96	24.51	25.40	25.87
	12H	24.20	25.02	24.68	25.49	25.96	24.20	25.02	24.68	25.49	25.96
8H	4H	23.56	24.46	24.01	24.91	25.37	23.56	24.46	24.01	24.91	25.37
	6H	24.29	25.05	24.78	25.53	26.01	24.29	25.05	24.78	25.53	26.01
	8H	24.56	25.24	25.07	25.75	26.23	24.56	25.24	25.07	25.75	26.23
	12H	24.77	25.38	25.28	25.87	26.42	24.77	25.38	25.28	25.87	26.42
12H	4H	23.59	24.41	24.07	24.89	25.35	23.59	24.41	24.07	24.89	25.35
	6H	24.35	25.03	24.85	25.53	26.02	24.35	25.03	24.85	25.53	26.02
	8H	24.68	25.28	25.18	25.77	26.33	24.68	25.28	25.18	25.77	26.33