

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: P866994

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-930-117L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

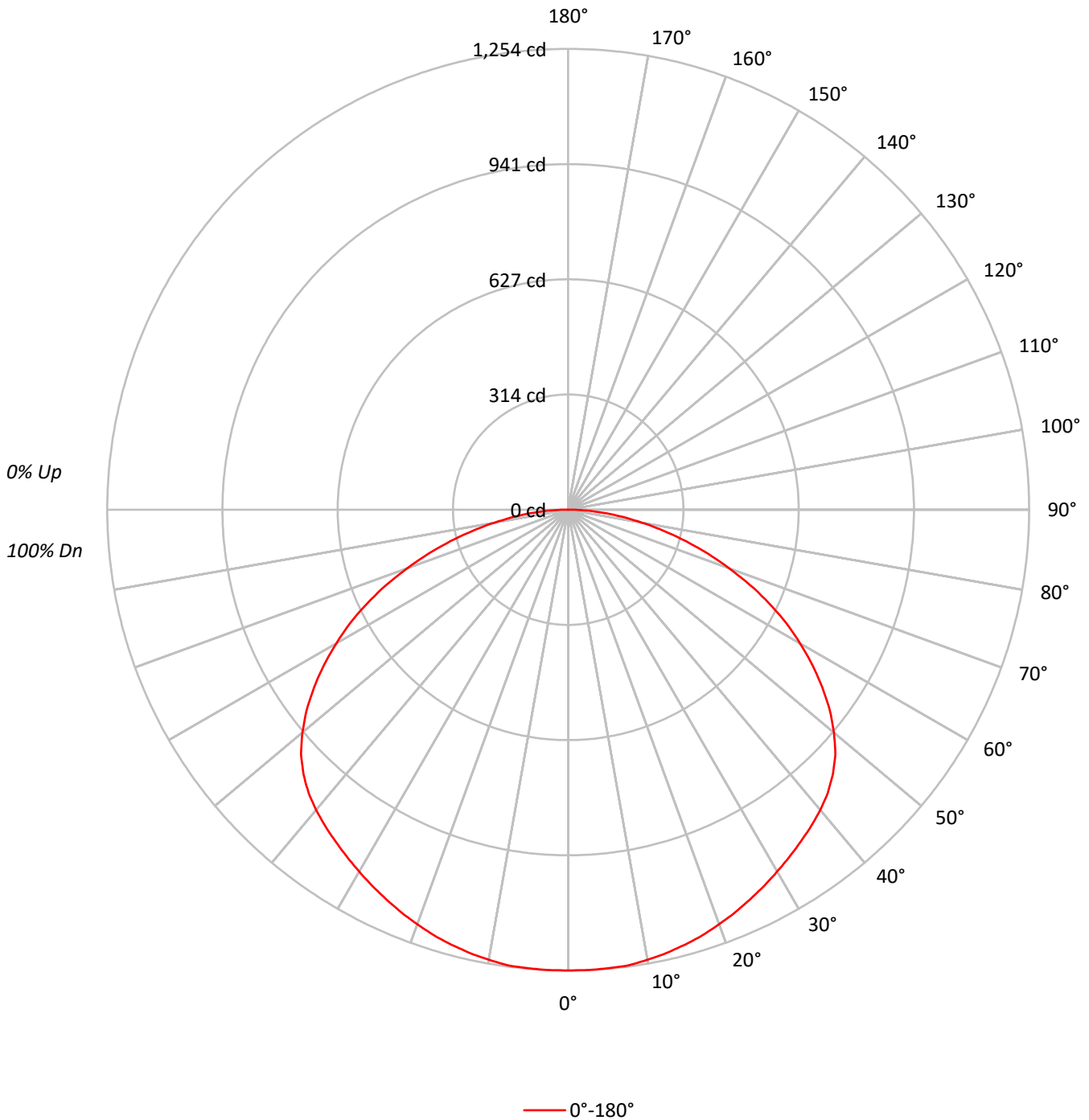
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4287.8 lumens  
Efficiency: N/A  
Efficacy: 45.0 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): 95.2  
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	98	94	105	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	22

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

	0°
0°	6186
5°	6205
10°	6231
15°	6260
20°	6303
25°	6370
30°	6478
35°	6642
40°	6869
45°	7104
50°	7243
55°	7259
60°	7194
65°	7042
70°	6712
75°	6316
80°	5808
85°	5361

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 7272 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	2.8
10°-20°	346.5	8.1
20°-30°	540.6	12.6
30°-40°	691.7	16.1
40°-50°	783.7	18.3
50°-60°	753.1	17.6
60°-70°	595.1	13.9
70°-80°	351.0	8.2
80°-90°	106.7	2.5
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°	1006.4	23.5
0°-40°	1698.2	39.6
0°-60°	3235.0	75.4
0°-90°	4287.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4287.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1254	
5°	1253	119
15°	1226	346
25°	1170	541
35°	1103	692
45°	1018	784
55°	844	753
65°	603	595
75°	331	351
85°	95	107
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1253.8
2.5°	1253.8
5°	1252.8
7.5°	1250.8
10°	1243.7
12.5°	1235.7
15°	1225.6
17.5°	1214.5
20°	1200.4
22.5°	1186.3
25°	1170.2
27.5°	1154.1
30°	1137.0
32.5°	1119.9
35°	1102.8
37.5°	1085.6
40°	1066.5
42.5°	1045.3
45°	1018.2
47.5°	985.9
50°	943.6
52.5°	897.3
55°	843.9
57.5°	788.5
60°	729.1
62.5°	668.7
65°	603.2
67.5°	535.8
70°	465.3
72.5°	398.8
75°	331.3
77.5°	265.9
80°	204.4
82.5°	147.0
85°	94.7
87.5°	48.3
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	19.34	21.04	19.70	21.36	21.67	19.34	21.04	19.70	21.36	21.67
	3H	21.25	22.80	21.63	23.13	23.49	21.25	22.80	21.63	23.13	23.49
	4H	21.97	23.44	22.37	23.78	24.16	21.97	23.44	22.37	23.78	24.16
	6H	22.52	23.88	22.93	24.24	24.63	22.52	23.88	22.93	24.24	24.63
	8H	22.71	24.01	23.13	24.40	24.79	22.71	24.01	23.13	24.40	24.79
	12H	22.84	24.09	23.27	24.47	24.90	22.84	24.09	23.27	24.47	24.90
4H	2H	20.02	21.48	20.42	21.83	22.20	20.02	21.48	20.42	21.83	22.20
	3H	22.15	23.38	22.56	23.78	24.18	22.15	23.38	22.56	23.78	24.18
	4H	23.00	24.12	23.43	24.54	24.97	23.00	24.12	23.43	24.54	24.97
	6H	23.68	24.67	24.13	25.10	25.56	23.68	24.67	24.13	25.10	25.56
	8H	23.92	24.84	24.38	25.28	25.75	23.92	24.84	24.38	25.28	25.75
	12H	24.11	24.94	24.59	25.42	25.88	24.11	24.94	24.59	25.42	25.88
8H	4H	23.35	24.27	23.81	24.71	25.17	23.35	24.27	23.81	24.71	25.17
	6H	24.16	24.93	24.65	25.41	25.89	24.16	24.93	24.65	25.41	25.89
	8H	24.48	25.17	24.99	25.67	26.16	24.48	25.17	24.99	25.67	26.16
	12H	24.76	25.37	25.26	25.86	26.41	24.76	25.37	25.26	25.86	26.41
12H	4H	23.39	24.22	23.87	24.70	25.17	23.39	24.22	23.87	24.70	25.17
	6H	24.23	24.92	24.73	25.42	25.91	24.23	24.92	24.73	25.42	25.91
	8H	24.61	25.23	25.12	25.72	26.27	24.61	25.23	25.12	25.72	26.27