

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: P867096

Luminaire Tested: PRLX-2002-L-935-67L-G-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-935-67L-G-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

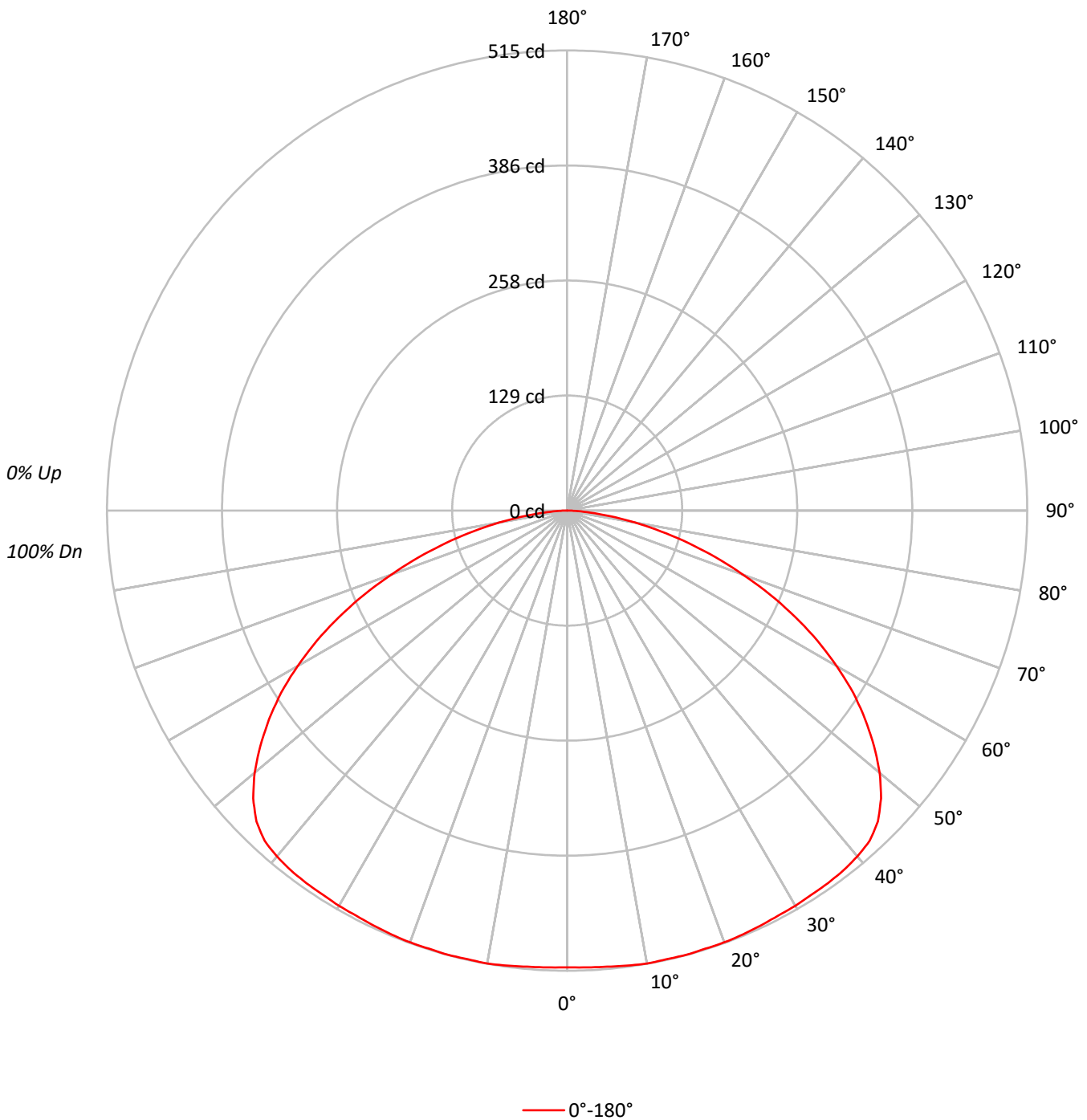
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1951.3 lumens  
Efficiency: N/A  
Efficacy: 38.7 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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	71		77	73	70	68
3	89	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	56	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	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

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

	0°
0°	2522
5°	2538
10°	2579
15°	2630
20°	2700
25°	2789
30°	2909
35°	3065
40°	3255
45°	3432
50°	3505
55°	3503
60°	3439
65°	3286
70°	3018
75°	2676
80°	2188
85°	1466

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 3510 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.0	2.5
10°-20°	145.8	7.5
20°-30°	237.1	12.2
30°-40°	319.4	16.4
40°-50°	377.2	19.3
50°-60°	363.0	18.6
60°-70°	277.6	14.2
70°-80°	149.0	7.6
80°-90°	33.2	1.7
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°	431.9	22.1
0°-40°	751.3	38.5
0°-60°	1491.5	76.4
0°-90°	1951.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	511	
5°	512	49
15°	515	146
25°	512	237
35°	509	319
45°	492	377
55°	407	363
65°	282	278
75°	140	149
85°	26	33
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	511.2
2.5°	511.8
5°	512.4
7.5°	513.6
10°	514.8
12.5°	514.2
15°	514.8
17.5°	514.2
20°	514.2
22.5°	513.6
25°	512.4
27.5°	511.2
30°	510.7
32.5°	509.5
35°	508.9
37.5°	507.7
40°	505.4
42.5°	501.3
45°	491.9
47.5°	476.6
50°	456.6
52.5°	433.1
55°	407.2
57.5°	379.6
60°	348.5
62.5°	316.1
65°	281.5
67.5°	245.6
70°	209.2
72.5°	174.5
75°	140.4
77.5°	107.5
80°	77.0
82.5°	48.8
85°	25.9
87.5°	8.8
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	16.98	18.69	17.34	19.01	19.32	16.98	18.69	17.34	19.01	19.32
	3H	18.73	20.28	19.11	20.61	20.97	18.73	20.28	19.11	20.61	20.97
	4H	19.34	20.80	19.73	21.15	21.52	19.34	20.80	19.73	21.15	21.52
	6H	19.73	21.09	20.14	21.46	21.85	19.73	21.09	20.14	21.46	21.85
	8H	19.83	21.13	20.26	21.52	21.92	19.83	21.13	20.26	21.52	21.92
	12H	19.88	21.13	20.31	21.51	21.94	19.88	21.13	20.31	21.51	21.94
4H	2H	17.63	19.09	18.02	19.44	19.81	17.63	19.09	18.02	19.44	19.81
	3H	19.58	20.81	19.99	21.21	21.61	19.58	20.81	19.99	21.21	21.61
	4H	20.30	21.42	20.73	21.83	22.26	20.30	21.42	20.73	21.83	22.26
	6H	20.81	21.78	21.26	22.22	22.68	20.81	21.78	21.26	22.22	22.68
	8H	20.94	21.86	21.40	22.30	22.76	20.94	21.86	21.40	22.30	22.76
	12H	21.03	21.85	21.50	22.32	22.79	21.03	21.85	21.50	22.32	22.79
8H	4H	20.59	21.50	21.04	21.94	22.40	20.59	21.50	21.04	21.94	22.40
	6H	21.19	21.95	21.68	22.43	22.91	21.19	21.95	21.68	22.43	22.91
	8H	21.37	22.05	21.88	22.56	23.04	21.37	22.05	21.88	22.56	23.04
	12H	21.50	22.10	22.00	22.59	23.15	21.50	22.10	22.00	22.59	23.15
12H	4H	20.61	21.44	21.09	21.91	22.38	20.61	21.44	21.09	21.91	22.38
	6H	21.22	21.91	21.73	22.41	22.89	21.22	21.91	21.73	22.41	22.89
	8H	21.46	22.06	21.96	22.55	23.11	21.46	22.06	21.96	22.55	23.11