

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: P867073

Luminaire Tested: PRLX-2002-L-935-15L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867073  
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-935-15L-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 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

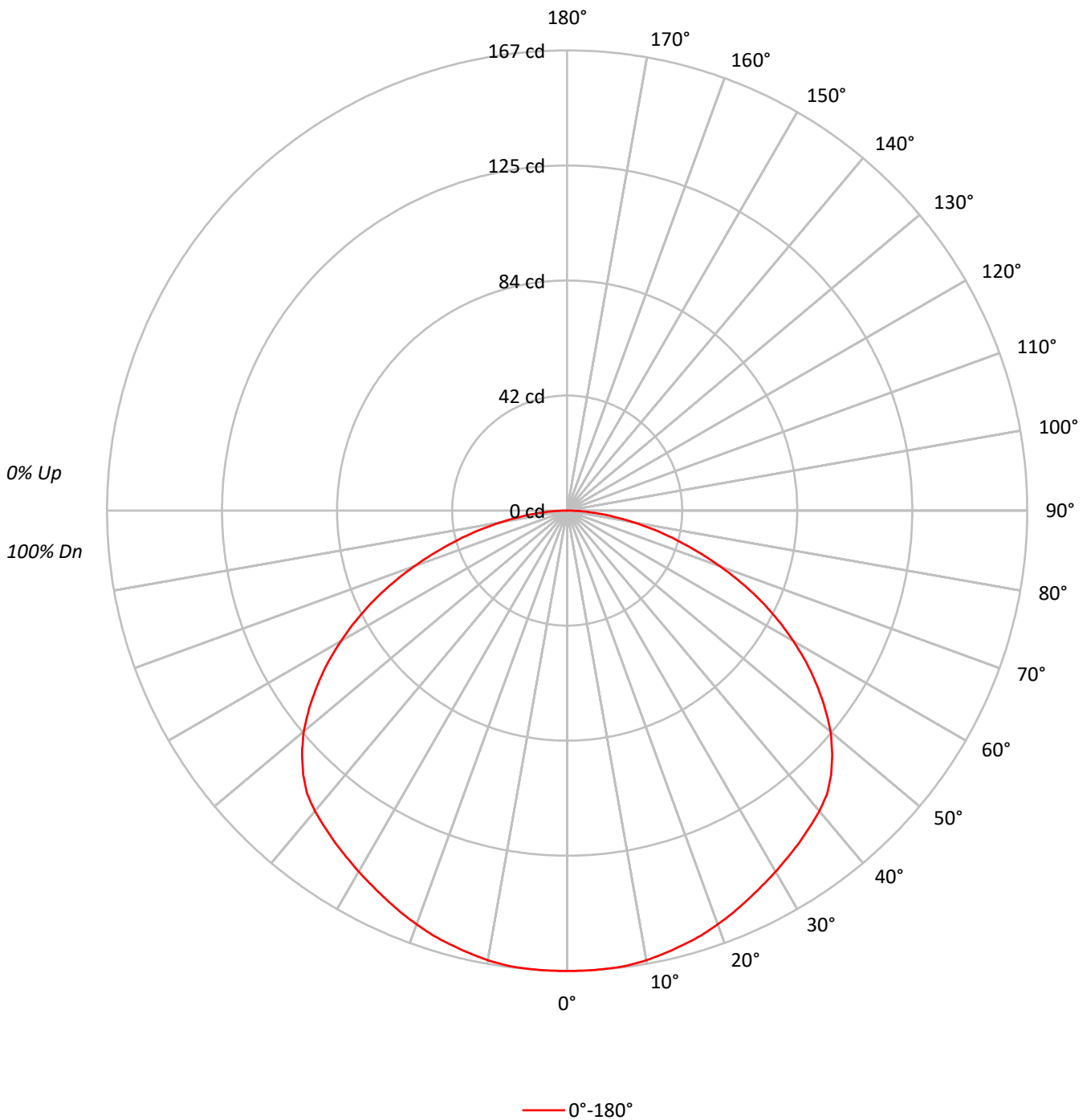
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 561.1 lumens  
Efficiency: N/A  
Efficacy: 34.2 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): 16.4  
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	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°	824
5°	827
10°	830
15°	833
20°	839
25°	847
30°	862
35°	885
40°	917
45°	945
50°	958
55°	952
60°	935
65°	906
70°	851
75°	782
80°	696
85°	572

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 958 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.9	2.8
10°-20°	46.1	8.2
20°-30°	71.9	12.8
30°-40°	92.2	16.4
40°-50°	104.2	18.6
50°-60°	98.8	17.6
60°-70°	76.5	13.6
70°-80°	43.5	7.8
80°-90°	12.0	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°	133.9	23.9
0°-40°	226.1	40.3
0°-60°	429.1	76.5
0°-90°	561.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	167	
5°	167	16
15°	163	46
25°	156	72
35°	147	92
45°	136	104
55°	111	99
65°	78	77
75°	41	44
85°	10	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	167.1
2.5°	167.1
5°	166.9
7.5°	166.6
10°	165.7
12.5°	164.5
15°	163.1
17.5°	161.7
20°	159.8
22.5°	157.8
25°	155.6
27.5°	153.4
30°	151.3
32.5°	149.1
35°	147.0
37.5°	144.7
40°	142.4
42.5°	139.6
45°	135.5
47.5°	130.5
50°	124.8
52.5°	118.0
55°	110.7
57.5°	103.1
60°	94.8
62.5°	86.4
65°	77.6
67.5°	68.4
70°	59.0
72.5°	49.8
75°	41.0
77.5°	32.5
80°	24.5
82.5°	17.0
85°	10.1
87.5°	4.6
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	12.28	13.97	12.64	14.29	14.60	12.28	13.97	12.64	14.29	14.60
	3H	14.11	15.65	14.49	15.98	16.34	14.11	15.65	14.49	15.98	16.34
	4H	14.78	16.23	15.18	16.58	16.95	14.78	16.23	15.18	16.58	16.95
	6H	15.27	16.62	15.68	16.98	17.37	15.27	16.62	15.68	16.98	17.37
	8H	15.42	16.71	15.85	17.10	17.50	15.42	16.71	15.85	17.10	17.50
	12H	15.52	16.76	15.95	17.14	17.57	15.52	16.76	15.95	17.14	17.57
4H	2H	12.94	14.39	13.33	14.74	15.11	12.94	14.39	13.33	14.74	15.11
	3H	14.98	16.21	15.39	16.60	17.00	14.98	16.21	15.39	16.60	17.00
	4H	15.78	16.89	16.21	17.30	17.73	15.78	16.89	16.21	17.30	17.73
	6H	16.39	17.36	16.84	17.80	18.25	16.39	17.36	16.84	17.80	18.25
	8H	16.60	17.50	17.05	17.94	18.41	16.60	17.50	17.05	17.94	18.41
	12H	16.74	17.56	17.22	18.03	18.50	16.74	17.56	17.22	18.03	18.50
8H	4H	16.10	17.01	16.56	17.45	17.91	16.10	17.01	16.56	17.45	17.91
	6H	16.83	17.59	17.32	18.07	18.55	16.83	17.59	17.32	18.07	18.55
	8H	17.10	17.78	17.61	18.29	18.77	17.10	17.78	17.61	18.29	18.77
	12H	17.32	17.92	17.82	18.41	18.96	17.32	17.92	17.82	18.41	18.96
12H	4H	16.13	16.95	16.61	17.43	17.89	16.13	16.95	16.61	17.43	17.89
	6H	16.89	17.57	17.39	18.07	18.56	16.89	17.57	17.39	18.07	18.56
	8H	17.22	17.82	17.72	18.31	18.87	17.22	17.82	17.72	18.31	18.87