

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: P865657

Luminaire Tested: PRLX-2002-S-935-05L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-S-935-05L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

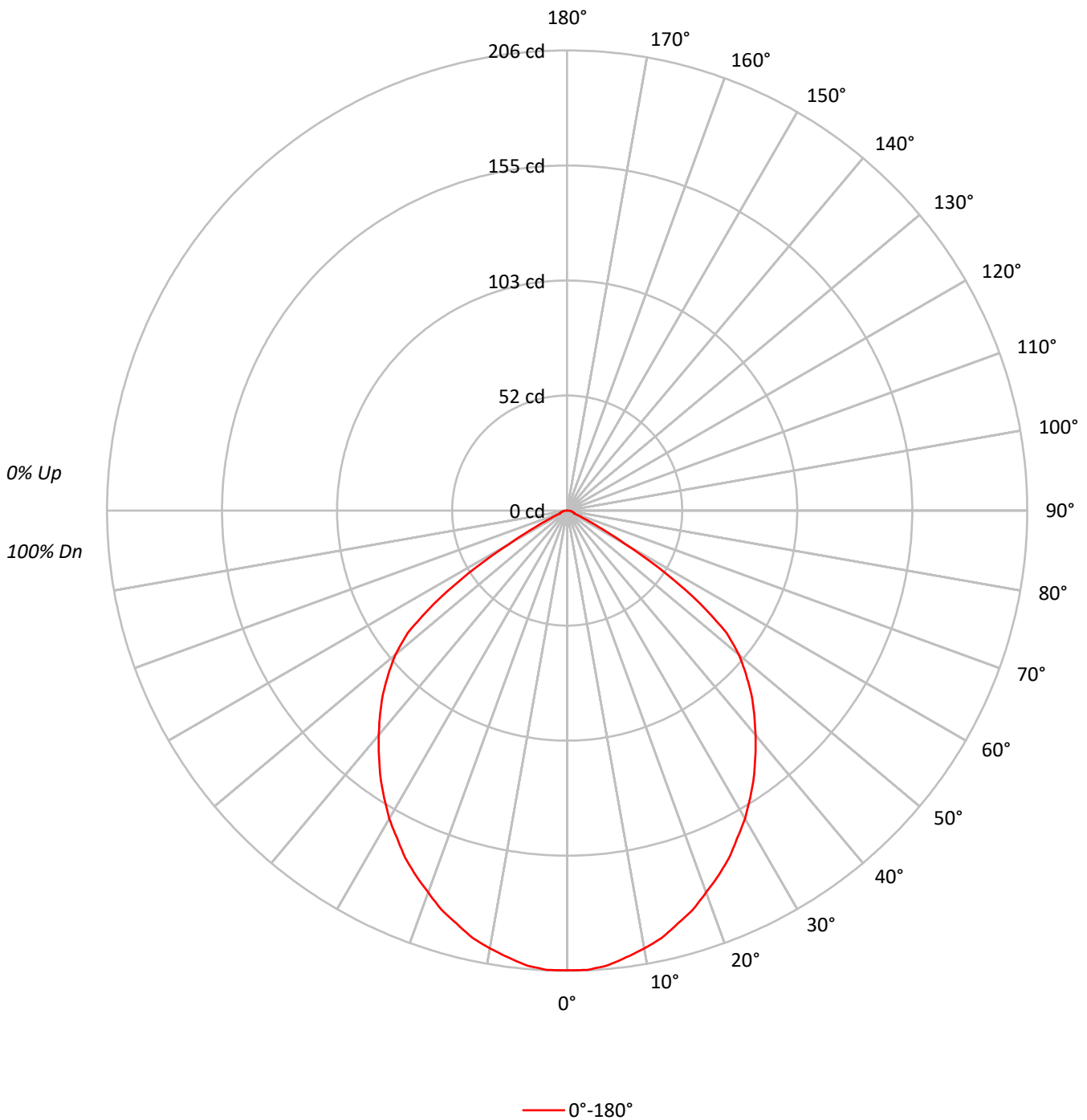
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 410.1 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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: 0.333 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	111	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84		89	85	82		86	83	80	79
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	71	66	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		64	60	56	54
6	76	65	57	51	75	64	56	51	62	55	50		60	55	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		55	49	45		54	49	45	43
8	66	54	46	41	65	53	46	41	52	46	41		51	45	41		50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	37	34	32

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

	0°
0°	3866
5°	3856
10°	3796
15°	3722
20°	3636
25°	3555
30°	3453
35°	3341
40°	3217
45°	3100
50°	2934
55°	2384
60°	1138
65°	360
70°	176
75°	196
80°	195
85°	302

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3100 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.3	4.7
10°-20°	54.0	13.2
20°-30°	78.8	19.2
30°-40°	91.0	22.2
40°-50°	89.7	21.9
50°-60°	62.3	15.2
60°-70°	10.8	2.6
70°-80°	2.8	0.7
80°-90°	1.3	0.3
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°	152.1	37.1
0°-40°	243.2	59.3
0°-60°	395.2	96.4
0°-90°	410.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	410.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	206	
5°	204	19
15°	191	54
25°	172	79
35°	146	91
45°	117	90
55°	73	62
65°	8	11
75°	3	3
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	205.8
2.5°	205.8
5°	204.5
7.5°	201.8
10°	199.0
12.5°	195.9
15°	191.4
17.5°	187.3
20°	181.9
22.5°	176.9
25°	171.5
27.5°	165.1
30°	159.2
32.5°	152.5
35°	145.7
37.5°	138.4
40°	131.2
42.5°	124.0
45°	116.7
47.5°	108.6
50°	100.4
52.5°	90.0
55°	72.8
57.5°	52.5
60°	30.3
62.5°	15.8
65°	8.1
67.5°	3.6
70°	3.2
72.5°	3.2
75°	2.7
77.5°	2.3
80°	1.8
82.5°	1.8
85°	1.4
87.5°	0.5
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	13.49	14.91	13.86	15.22	15.54	13.49	14.91	13.86	15.22	15.54
	3H	13.40	14.65	13.78	14.98	15.34	13.40	14.65	13.78	14.98	15.34
	4H	13.36	14.52	13.76	14.87	15.25	13.36	14.52	13.76	14.87	15.25
	6H	13.31	14.38	13.72	14.75	15.14	13.31	14.38	13.72	14.75	15.14
	8H	13.29	14.30	13.72	14.69	15.09	13.29	14.30	13.72	14.69	15.09
	12H	13.27	14.23	13.70	14.62	15.05	13.27	14.23	13.70	14.62	15.05
4H	2H	13.35	14.51	13.75	14.86	15.24	13.35	14.51	13.75	14.86	15.24
	3H	13.28	14.22	13.69	14.62	15.02	13.28	14.22	13.69	14.62	15.02
	4H	13.23	14.07	13.67	14.49	14.93	13.23	14.07	13.67	14.49	14.93
	6H	13.20	13.92	13.66	14.37	14.83	13.20	13.92	13.66	14.37	14.83
	8H	13.18	13.85	13.65	14.30	14.77	13.18	13.85	13.65	14.30	14.77
	12H	13.17	13.77	13.66	14.25	14.73	13.17	13.77	13.66	14.25	14.73
8H	4H	13.13	13.80	13.59	14.24	14.72	13.13	13.80	13.59	14.24	14.72
	6H	13.09	13.64	13.59	14.14	14.62	13.09	13.64	13.59	14.14	14.62
	8H	13.07	13.58	13.59	14.09	14.58	13.07	13.58	13.59	14.09	14.58
	12H	13.09	13.54	13.60	14.03	14.60	13.09	13.54	13.60	14.03	14.60
12H	4H	13.09	13.68	13.57	14.16	14.64	13.09	13.68	13.57	14.16	14.64
	6H	13.03	13.54	13.55	14.05	14.54	13.03	13.54	13.55	14.05	14.54
	8H	13.04	13.50	13.56	13.99	14.56	13.04	13.50	13.56	13.99	14.56