

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: P865684

Luminaire Tested: PRLX-2002-S-935-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-S-935-25L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

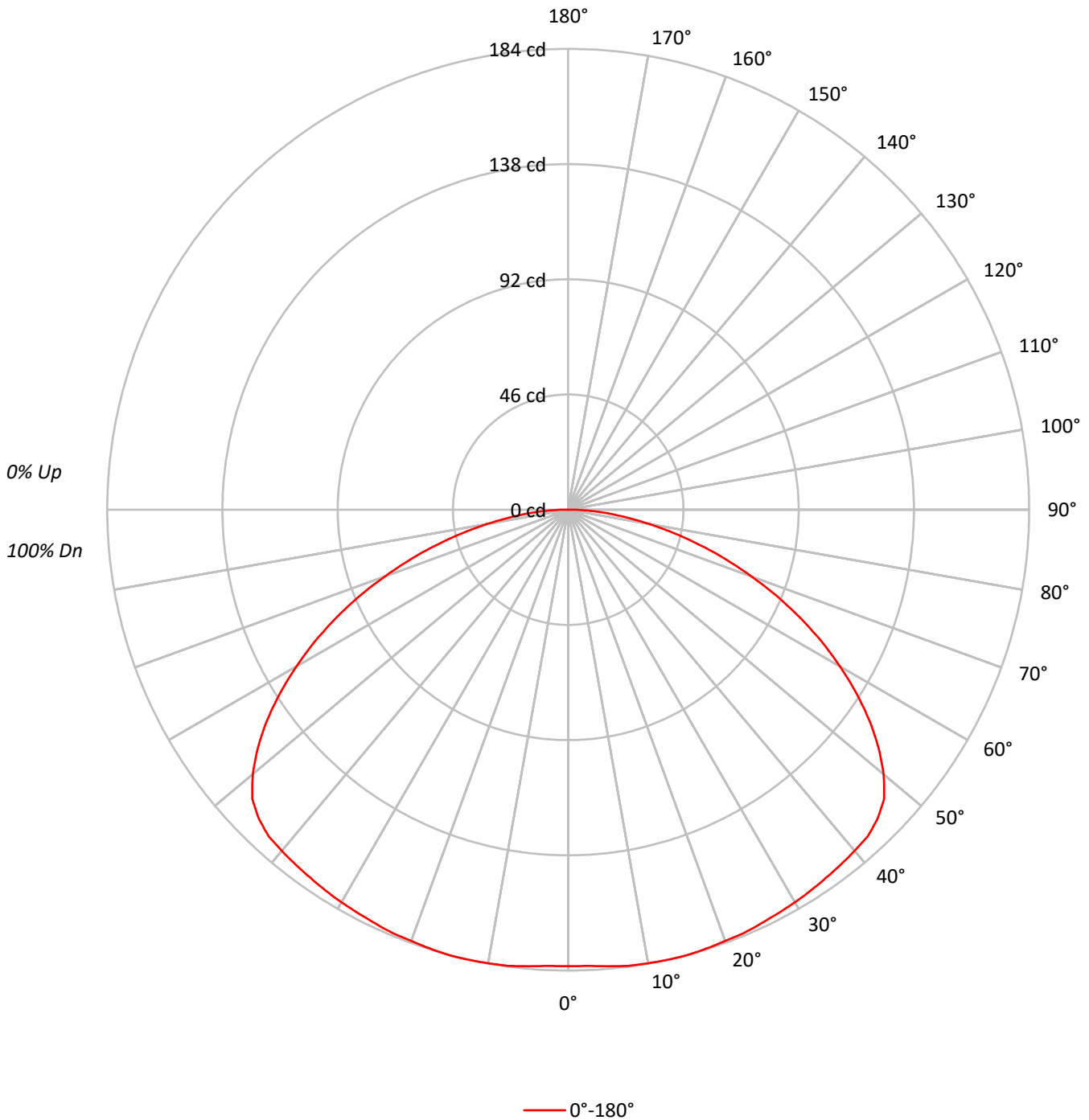
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 706.9 lumens  
Efficiency: N/A  
Efficacy: 24.3 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59		69	63	58		67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42		54	47	42		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37		49	42	36		47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

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

	0°
0°	3424
5°	3451
10°	3508
15°	3580
20°	3662
25°	3778
30°	3926
35°	4114
40°	4360
45°	4638
50°	4804
55°	4808
60°	4707
65°	4543
70°	4273
75°	3941
80°	3548
85°	3168

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 4817 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.5	2.5
10°-20°	52.1	7.4
20°-30°	84.3	11.9
30°-40°	112.7	15.9
40°-50°	134.2	19.0
50°-60°	130.7	18.5
60°-70°	100.9	14.3
70°-80°	57.7	8.2
80°-90°	16.8	2.4
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°	153.9	21.8
0°-40°	266.6	37.7
0°-60°	531.5	75.2
0°-90°	706.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	706.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	182	
5°	183	18
15°	184	52
25°	182	84
35°	179	113
45°	175	134
55°	147	131
65°	102	101
75°	54	58
85°	15	17
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	182.3
2.5°	182.3
5°	183.0
7.5°	183.7
10°	183.9
12.5°	184.1
15°	184.1
17.5°	183.7
20°	183.2
22.5°	183.0
25°	182.3
27.5°	181.6
30°	181.0
32.5°	180.3
35°	179.4
37.5°	178.7
40°	177.8
42.5°	176.9
45°	174.6
47.5°	171.0
50°	164.4
52.5°	156.1
55°	146.8
57.5°	136.4
60°	125.3
62.5°	114.0
65°	102.2
67.5°	90.2
70°	77.8
72.5°	66.0
75°	54.3
77.5°	43.2
80°	32.8
82.5°	23.1
85°	14.7
87.5°	7.7
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	18.02	19.75	18.39	20.06	20.38	18.02	19.75	18.39	20.06	20.38
	3H	19.85	21.42	20.23	21.74	22.10	19.85	21.42	20.23	21.74	22.10
	4H	20.52	22.01	20.92	22.35	22.73	20.52	22.01	20.92	22.35	22.73
	6H	21.02	22.40	21.43	22.76	23.15	21.02	22.40	21.43	22.76	23.15
	8H	21.19	22.50	21.61	22.89	23.29	21.19	22.50	21.61	22.89	23.29
	12H	21.30	22.57	21.73	22.95	23.38	21.30	22.57	21.73	22.95	23.38
4H	2H	18.68	20.16	19.08	20.51	20.88	18.68	20.16	19.08	20.51	20.88
	3H	20.73	21.97	21.13	22.37	22.77	20.73	21.97	21.13	22.37	22.77
	4H	21.53	22.66	21.96	23.07	23.50	21.53	22.66	21.96	23.07	23.50
	6H	22.15	23.15	22.61	23.59	24.04	22.15	23.15	22.61	23.59	24.04
	8H	22.37	23.30	22.83	23.74	24.20	22.37	23.30	22.83	23.74	24.20
	12H	22.53	23.38	23.01	23.85	24.32	22.53	23.38	23.01	23.85	24.32
8H	4H	21.85	22.78	22.31	23.22	23.69	21.85	22.78	22.31	23.22	23.69
	6H	22.60	23.38	23.09	23.87	24.34	22.60	23.38	23.09	23.87	24.34
	8H	22.89	23.59	23.40	24.09	24.58	22.89	23.59	23.40	24.09	24.58
	12H	23.14	23.75	23.64	24.24	24.80	23.14	23.75	23.64	24.24	24.80
12H	4H	21.89	22.73	22.37	23.21	23.67	21.89	22.73	22.37	23.21	23.67
	6H	22.66	23.37	23.17	23.87	24.35	22.66	23.37	23.17	23.87	24.35
	8H	23.01	23.63	23.52	24.12	24.68	23.01	23.63	23.52	24.12	24.68