

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: P865519

Luminaire Tested: PRLX-2001-S-935-20L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-2001-S-935-20L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

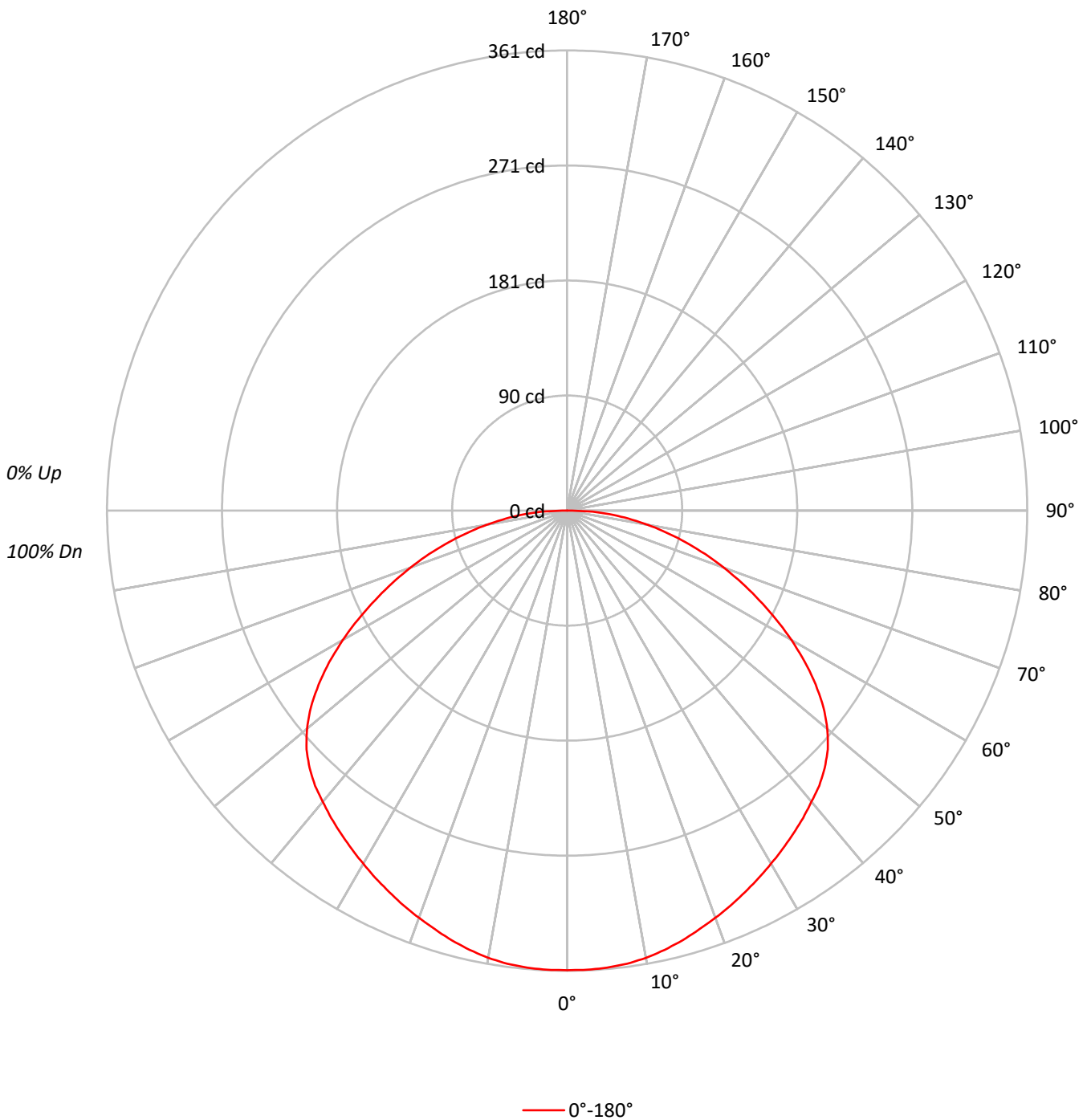
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1214.9 lumens  
Efficiency: N/A  
Efficacy: 55.7 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
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

TEST NUMBER: P865519

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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	92	89	92	89	86	88	86	84	82
2	97	89	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	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	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	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33	45	38	33	43	37	32	30
8	58	44	35	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	21

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

	0°
0°	5880
5°	5892
10°	5901
15°	5895
20°	5901
25°	5942
30°	6025
35°	6160
40°	6349
45°	6590
50°	6762
55°	6768
60°	6628
65°	6418
70°	6223
75°	6056
80°	6002
85°	6269

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 7516 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.2	2.8
10°-20°	98.6	8.1
20°-30°	152.5	12.6
30°-40°	194.0	16.0
40°-50°	220.0	18.1
50°-60°	212.0	17.5
60°-70°	164.9	13.6
70°-80°	102.0	8.4
80°-90°	36.5	3.0
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°	285.4	23.5
0°-40°	479.4	39.5
0°-60°	911.5	75.0
0°-90°	1214.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1214.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	360	
5°	360	34
15°	349	99
25°	330	153
35°	309	194
45°	286	220
55°	238	212
65°	166	165
75°	96	102
85°	34	36
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	360.5
2.5°	360.6
5°	359.9
7.5°	358.6
10°	356.3
12.5°	353.0
15°	349.1
17.5°	344.5
20°	340.0
22.5°	335.3
25°	330.2
27.5°	325.2
30°	319.9
32.5°	314.7
35°	309.4
37.5°	304.0
40°	298.2
42.5°	292.8
45°	285.7
47.5°	277.4
50°	266.5
52.5°	253.5
55°	238.0
57.5°	221.3
60°	203.2
62.5°	184.9
65°	166.3
67.5°	148.4
70°	130.5
72.5°	113.5
75°	96.1
77.5°	79.8
80°	63.9
82.5°	48.5
85°	33.5
87.5°	20.1
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	19.03	20.74	19.40	21.06	21.37	19.03	20.74	19.40	21.06	21.37
	3H	20.92	22.48	21.30	22.80	23.16	20.92	22.48	21.30	22.80	23.16
	4H	21.69	23.16	22.09	23.51	23.88	21.69	23.16	22.09	23.51	23.88
	6H	22.33	23.69	22.74	24.06	24.45	22.33	23.69	22.74	24.06	24.45
	8H	22.58	23.88	23.00	24.27	24.67	22.58	23.88	23.00	24.27	24.67
	12H	22.78	24.03	23.21	24.41	24.84	22.78	24.03	23.21	24.41	24.84
4H	2H	19.69	21.16	20.09	21.51	21.88	19.69	21.16	20.09	21.51	21.88
	3H	21.82	23.06	22.23	23.46	23.86	21.82	23.06	22.23	23.46	23.86
	4H	22.73	23.86	23.16	24.27	24.70	22.73	23.86	23.16	24.27	24.70
	6H	23.52	24.51	23.97	24.95	25.40	23.52	24.51	23.97	24.95	25.40
	8H	23.83	24.76	24.29	25.20	25.67	23.83	24.76	24.29	25.20	25.67
	12H	24.10	24.94	24.58	25.42	25.88	24.10	24.94	24.58	25.42	25.88
8H	4H	23.11	24.03	23.56	24.48	24.94	23.11	24.03	23.56	24.48	24.94
	6H	24.05	24.83	24.54	25.31	25.79	24.05	24.83	24.54	25.31	25.79
	8H	24.46	25.17	24.97	25.67	26.15	24.46	25.17	24.97	25.67	26.15
	12H	24.85	25.47	25.35	25.96	26.51	24.85	25.47	25.35	25.96	26.51
12H	4H	23.16	24.00	23.64	24.48	24.94	23.16	24.00	23.64	24.48	24.94
	6H	24.14	24.85	24.65	25.35	25.83	24.14	24.85	24.65	25.35	25.83
	8H	24.63	25.25	25.14	25.74	26.30	24.63	25.25	25.14	25.74	26.30