

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: P865846

Luminaire Tested: PRLX-2004-S-935-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-935-25L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
BELL WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

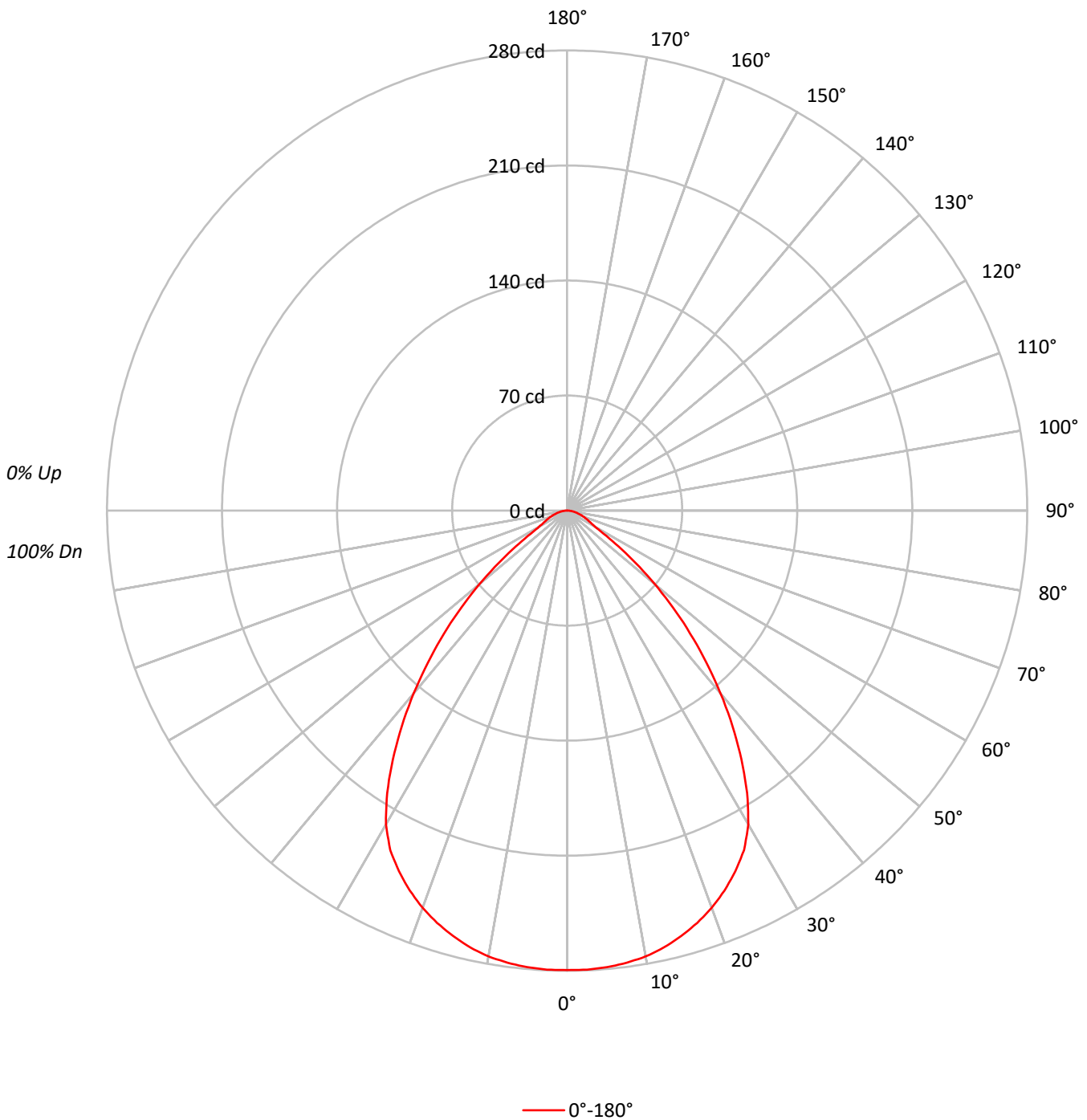
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 469.1 lumens  
Efficiency: N/A  
Efficacy: 16.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16  
Luminous Opening: Circular (Dia: 0.92' 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: 0.5 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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°
0°	4560
5°	4566
10°	4563
15°	4525
20°	4464
25°	4359
30°	4153
35°	3684
40°	3092
45°	2443
50°	1756
55°	1081
60°	636
65°	540
70°	486
75°	429
80°	404
85°	374

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2443 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.5	5.7
10°-20°	75.5	16.1
20°-30°	111.1	23.7
30°-40°	114.8	24.5
40°-50°	81.6	17.4
50°-60°	35.7	7.6
60°-70°	14.1	3.0
70°-80°	7.4	1.6
80°-90°	2.2	0.5
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°	213.2	45.4
0°-40°	328.0	69.9
0°-60°	445.3	94.9
0°-90°	469.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	280	
5°	279	27
15°	268	76
25°	242	111
35°	185	115
45°	106	82
55°	38	36
65°	14	14
75°	7	7
85°	2	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	279.6
2.5°	279.6
5°	278.9
7.5°	277.5
10°	275.5
12.5°	272.3
15°	268.0
17.5°	263.1
20°	257.2
22.5°	250.2
25°	242.2
27.5°	233.0
30°	220.5
32.5°	203.8
35°	185.0
37.5°	165.3
40°	145.2
42.5°	125.3
45°	105.9
47.5°	87.3
50°	69.2
52.5°	52.7
55°	38.0
57.5°	26.2
60°	19.5
62.5°	16.3
65°	14.0
67.5°	12.0
70°	10.2
72.5°	8.4
75°	6.8
77.5°	5.7
80°	4.3
82.5°	3.2
85°	2.0
87.5°	0.9
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	7.95	9.25	8.32	9.56	9.88	7.95	9.25	8.32	9.56	9.88
	3H	8.89	10.03	9.27	10.36	10.73	8.89	10.03	9.27	10.36	10.73
	4H	9.24	10.31	9.65	10.66	11.04	9.24	10.31	9.65	10.66	11.04
	6H	9.54	10.52	9.96	10.89	11.28	9.54	10.52	9.96	10.89	11.28
	8H	9.64	10.57	10.08	10.96	11.36	9.64	10.57	10.08	10.96	11.36
	12H	9.71	10.59	10.14	10.98	11.41	9.71	10.59	10.14	10.98	11.41
4H	2H	8.19	9.26	8.60	9.61	9.99	8.19	9.26	8.60	9.61	9.99
	3H	9.35	10.22	9.77	10.62	11.03	9.35	10.22	9.77	10.62	11.03
	4H	9.82	10.60	10.26	11.02	11.46	9.82	10.60	10.26	11.02	11.46
	6H	10.25	10.92	10.71	11.36	11.83	10.25	10.92	10.71	11.36	11.83
	8H	10.40	11.02	10.87	11.47	11.94	10.40	11.02	10.87	11.47	11.94
	12H	10.51	11.05	10.99	11.54	12.01	10.51	11.05	10.99	11.54	12.01
8H	4H	9.97	10.59	10.44	11.04	11.51	9.97	10.59	10.44	11.04	11.51
	6H	10.51	11.01	11.01	11.51	11.99	10.51	11.01	11.01	11.51	11.99
	8H	10.72	11.18	11.25	11.70	12.19	10.72	11.18	11.25	11.70	12.19
	12H	10.91	11.31	11.42	11.81	12.38	10.91	11.31	11.42	11.81	12.38
12H	4H	9.97	10.51	10.45	11.00	11.47	9.97	10.51	10.45	11.00	11.47
	6H	10.52	10.98	11.05	11.50	11.99	10.52	10.98	11.05	11.50	11.99
	8H	10.80	11.20	11.31	11.70	12.27	10.80	11.20	11.31	11.70	12.27