

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: P866558

Luminaire Tested: PRLX-2004-M-935-35L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-935-35L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
BELL WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

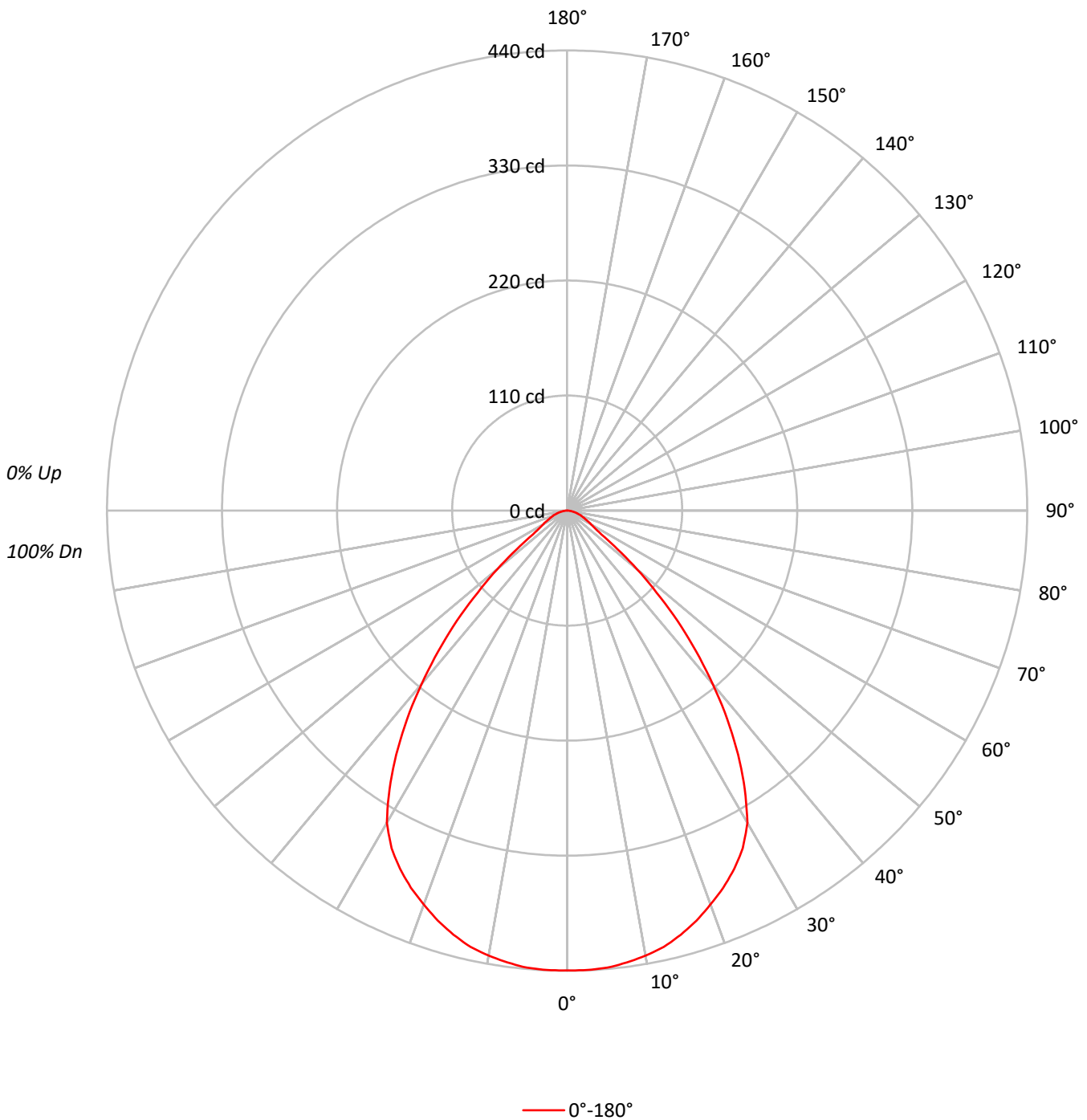
Lumens per Lamp: N/A  
Luminaire Lumens: 698.6 lumens  
Efficiency: N/A  
Efficacy: 23.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

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

	0°
0°	3498
5°	3504
10°	3491
15°	3458
20°	3393
25°	3318
30°	3168
35°	2767
40°	2248
45°	1678
50°	1082
55°	553
60°	423
65°	358
70°	330
75°	292
80°	261
85°	256

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1678 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	6.0
10°-20°	118.2	16.9
20°-30°	173.4	24.8
30°-40°	176.4	25.3
40°-50°	114.7	16.4
50°-60°	41.9	6.0
60°-70°	19.3	2.8
70°-80°	10.1	1.5
80°-90°	2.8	0.4
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°	333.3	47.7
0°-40°	509.7	73.0
0°-60°	666.3	95.4
0°-90°	698.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	440	
5°	439	42
15°	420	118
25°	378	173
35°	285	176
45°	149	115
55°	40	42
65°	19	19
75°	10	10
85°	3	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	439.7
2.5°	439.7
5°	438.8
7.5°	435.9
10°	432.1
12.5°	427.4
15°	419.8
17.5°	411.2
20°	400.8
22.5°	390.3
25°	378.0
27.5°	363.8
30°	344.8
32.5°	316.3
35°	284.9
37.5°	251.7
40°	216.5
42.5°	182.4
45°	149.1
47.5°	115.9
50°	87.4
52.5°	60.8
55°	39.9
57.5°	31.3
60°	26.6
62.5°	22.8
65°	19.0
67.5°	16.1
70°	14.2
72.5°	11.4
75°	9.5
77.5°	7.6
80°	5.7
82.5°	3.8
85°	2.8
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	5.42	6.67	5.79	6.99	7.30	5.42	6.67	5.79	6.99	7.30
	3H	6.60	7.71	6.98	8.04	8.40	6.60	7.71	6.98	8.04	8.40
	4H	7.04	8.07	7.45	8.42	8.81	7.04	8.07	7.45	8.42	8.81
	6H	7.38	8.32	7.79	8.69	9.08	7.38	8.32	7.79	8.69	9.08
	8H	7.47	8.36	7.90	8.75	9.16	7.47	8.36	7.90	8.75	9.16
	12H	7.54	8.39	7.97	8.77	9.20	7.54	8.39	7.97	8.77	9.20
4H	2H	5.77	6.80	6.17	7.15	7.53	5.77	6.80	6.17	7.15	7.53
	3H	7.18	8.02	7.59	8.42	8.82	7.18	8.02	7.59	8.42	8.82
	4H	7.74	8.49	8.18	8.91	9.35	7.74	8.49	8.18	8.91	9.35
	6H	8.20	8.84	8.66	9.29	9.75	8.20	8.84	8.66	9.29	9.75
	8H	8.32	8.92	8.79	9.37	9.84	8.32	8.92	8.79	9.37	9.84
	12H	8.43	8.96	8.92	9.44	9.92	8.43	8.96	8.92	9.44	9.92
8H	4H	7.92	8.52	8.39	8.96	9.44	7.92	8.52	8.39	8.96	9.44
	6H	8.48	8.96	8.98	9.46	9.94	8.48	8.96	8.98	9.46	9.94
	8H	8.66	9.10	9.19	9.62	10.11	8.66	9.10	9.19	9.62	10.11
	12H	8.85	9.24	9.37	9.73	10.31	8.85	9.24	9.37	9.73	10.31
12H	4H	7.91	8.44	8.40	8.92	9.40	7.91	8.44	8.40	8.92	9.40
	6H	8.49	8.93	9.01	9.45	9.94	8.49	8.93	9.01	9.45	9.94
	8H	8.73	9.12	9.24	9.61	10.19	8.73	9.12	9.24	9.61	10.19