

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: P866430

Luminaire Tested: PRLX-2004-M-927-35L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866430  
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-927-35L-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

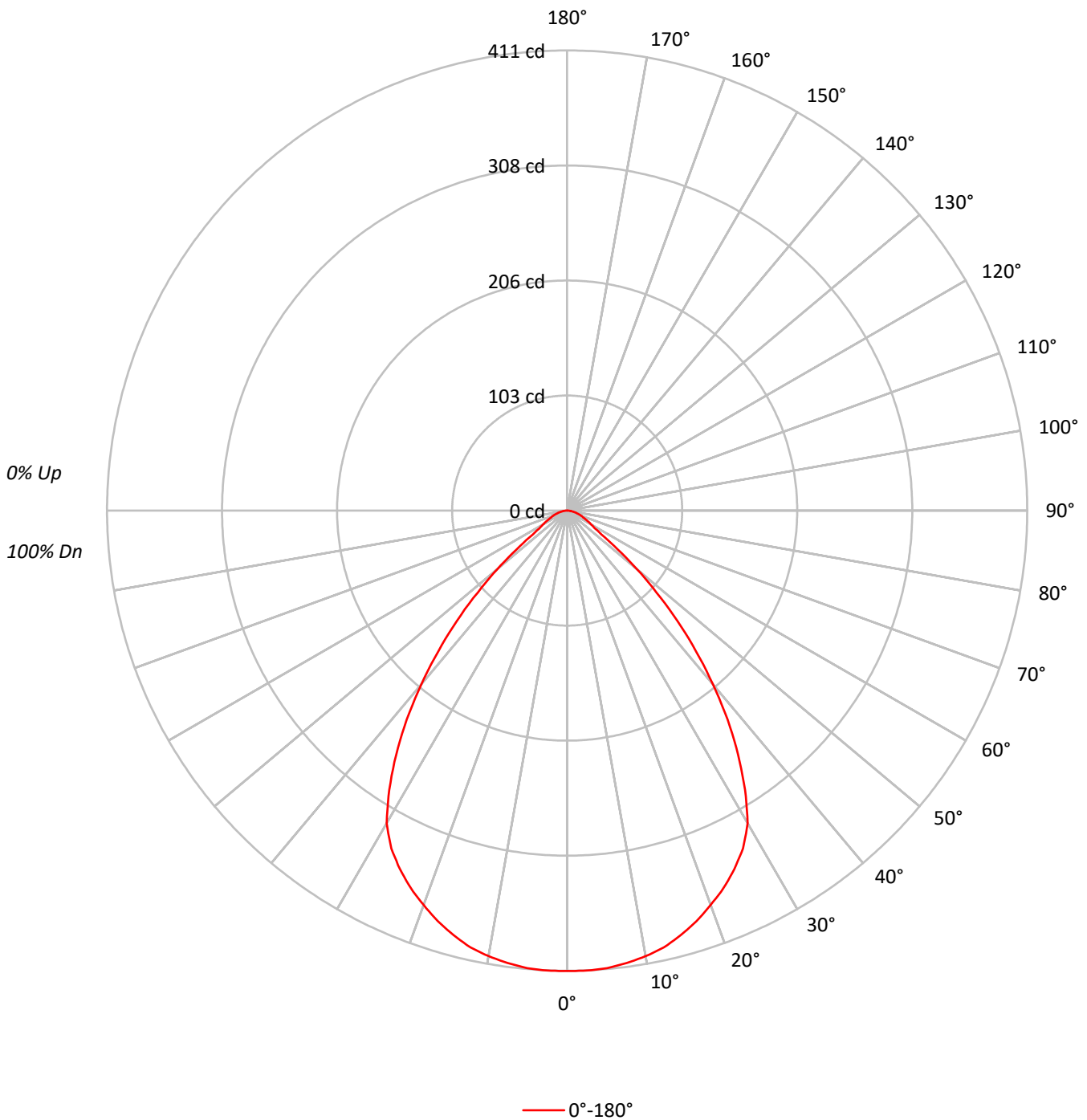
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 653.2 lumens  
Efficiency: N/A  
Efficacy: 21.8 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°	3271
5°	3277
10°	3265
15°	3233
20°	3173
25°	3102
30°	2962
35°	2587
40°	2103
45°	1568
50°	1011
55°	517
60°	396
65°	335
70°	309
75°	274
80°	243
85°	246

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1568 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.0	6.0
10°-20°	110.6	16.9
20°-30°	162.1	24.8
30°-40°	165.0	25.3
40°-50°	107.2	16.4
50°-60°	39.1	6.0
60°-70°	18.1	2.8
70°-80°	9.5	1.5
80°-90°	2.7	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°	311.6	47.7
0°-40°	476.6	73.0
0°-60°	622.9	95.4
0°-90°	653.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	653.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	411	
5°	410	39
15°	392	111
25°	353	162
35°	266	165
45°	139	107
55°	37	39
65°	18	18
75°	9	9
85°	3	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	411.2
2.5°	411.2
5°	410.3
7.5°	407.6
10°	404.1
12.5°	399.6
15°	392.5
17.5°	384.5
20°	374.8
22.5°	365.0
25°	353.4
27.5°	340.1
30°	322.4
32.5°	295.7
35°	266.4
37.5°	235.3
40°	202.5
42.5°	170.5
45°	139.4
47.5°	108.3
50°	81.7
52.5°	56.8
55°	37.3
57.5°	29.3
60°	24.9
62.5°	21.3
65°	17.8
67.5°	15.1
70°	13.3
72.5°	10.7
75°	8.9
77.5°	7.1
80°	5.3
82.5°	3.6
85°	2.7
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	5.19	6.45	5.56	6.76	7.08	5.19	6.45	5.56	6.76	7.08
	3H	6.38	7.48	6.76	7.81	8.18	6.38	7.48	6.76	7.81	8.18
	4H	6.82	7.85	7.22	8.20	8.59	6.82	7.85	7.22	8.20	8.59
	6H	7.15	8.09	7.57	8.47	8.86	7.15	8.09	7.57	8.47	8.86
	8H	7.24	8.14	7.67	8.53	8.93	7.24	8.14	7.67	8.53	8.93
	12H	7.32	8.17	7.75	8.55	8.98	7.32	8.17	7.75	8.55	8.98
4H	2H	5.54	6.57	5.95	6.92	7.31	5.54	6.57	5.95	6.92	7.31
	3H	6.96	7.79	7.37	8.20	8.60	6.96	7.79	7.37	8.20	8.60
	4H	7.52	8.27	7.96	8.69	9.13	7.52	8.27	7.96	8.69	9.13
	6H	7.97	8.61	8.43	9.06	9.53	7.97	8.61	8.43	9.06	9.53
	8H	8.10	8.70	8.57	9.15	9.62	8.10	8.70	8.57	9.15	9.62
	12H	8.21	8.74	8.70	9.23	9.70	8.21	8.74	8.70	9.23	9.70
8H	4H	7.69	8.29	8.16	8.74	9.21	7.69	8.29	8.16	8.74	9.21
	6H	8.25	8.74	8.75	9.24	9.72	8.25	8.74	8.75	9.24	9.72
	8H	8.44	8.88	8.96	9.40	9.89	8.44	8.88	8.96	9.40	9.89
	12H	8.64	9.03	9.15	9.52	10.10	8.64	9.03	9.15	9.52	10.10
12H	4H	7.69	8.22	8.18	8.70	9.18	7.69	8.22	8.18	8.70	9.18
	6H	8.26	8.70	8.79	9.22	9.71	8.26	8.70	8.79	9.22	9.71
	8H	8.51	8.89	9.02	9.39	9.96	8.51	8.89	9.02	9.39	9.96