

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: P865981

Luminaire Tested: PRLX-2001-M-930-35L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-35L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

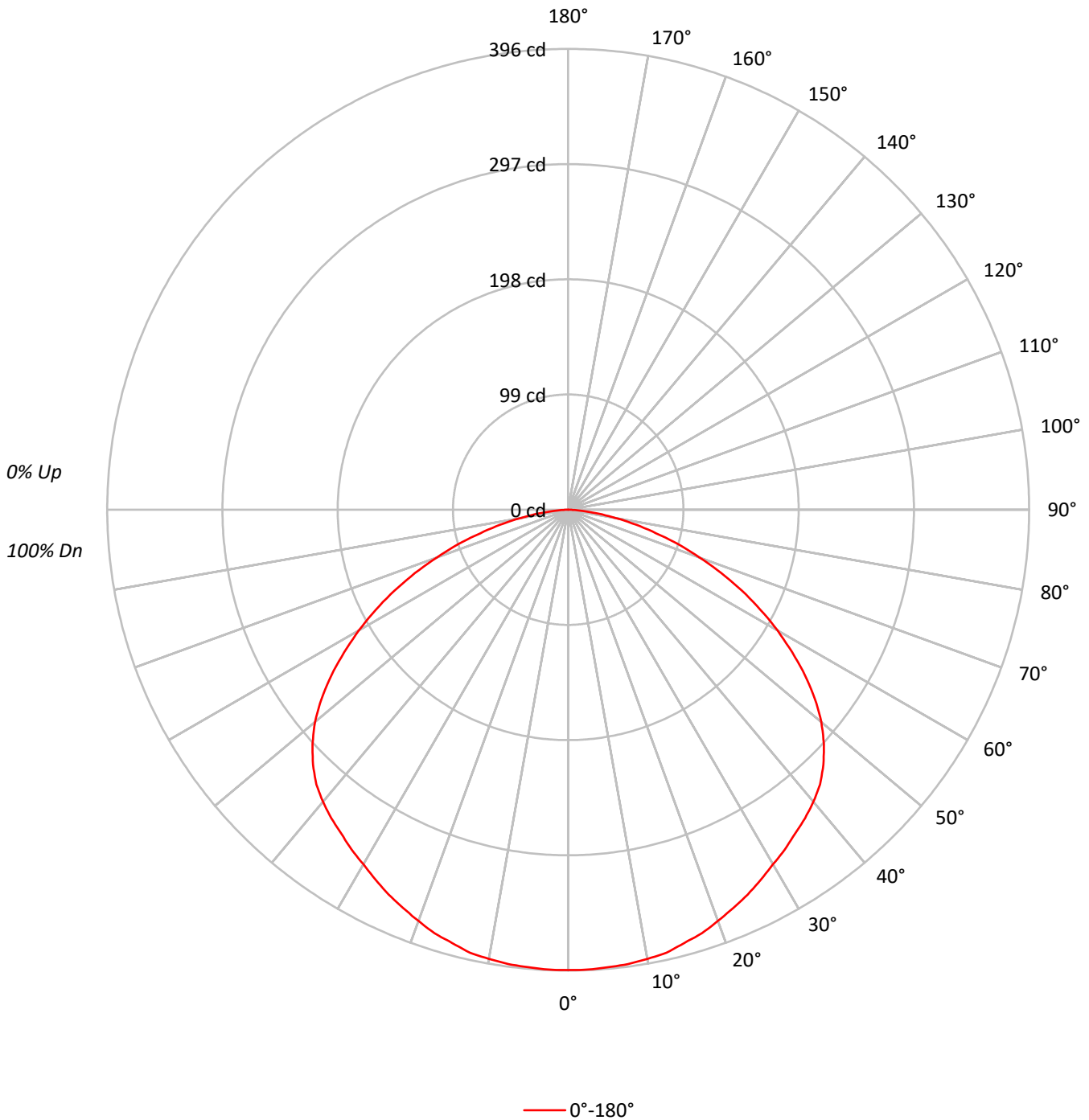
Lumens per Lamp: N/A  
Luminaire Lumens: 1251.7 lumens  
Efficiency: N/A  
Efficacy: 41.7 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct

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	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

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

	0°
0°	3357
5°	3362
10°	3377
15°	3386
20°	3396
25°	3417
30°	3448
35°	3520
40°	3630
45°	3720
50°	3748
55°	3677
60°	3523
65°	3309
70°	2980
75°	2564
80°	2048
85°	1266

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 3748 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.6	3.0
10°-20°	109.0	8.7
20°-30°	168.4	13.5
30°-40°	213.3	17.0
40°-50°	238.4	19.0
50°-60°	221.3	17.7
60°-70°	162.5	13.0
70°-80°	83.9	6.7
80°-90°	17.3	1.4
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°	314.9	25.2
0°-40°	528.2	42.2
0°-60°	988.0	78.9
0°-90°	1251.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	396	
5°	395	38
15°	385	109
25°	365	168
35°	340	213
45°	310	238
55°	248	221
65°	165	163
75°	78	84
85°	13	17
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	395.6
2.5°	395.6
5°	394.7
7.5°	393.8
10°	391.9
12.5°	390.0
15°	385.4
17.5°	381.7
20°	376.1
22.5°	370.5
25°	364.9
27.5°	358.4
30°	351.9
32.5°	346.3
35°	339.8
37.5°	334.2
40°	327.7
42.5°	320.2
45°	310.0
47.5°	297.9
50°	283.9
52.5°	267.2
55°	248.5
57.5°	228.1
60°	207.6
62.5°	186.2
65°	164.8
67.5°	142.4
70°	120.1
72.5°	99.6
75°	78.2
77.5°	59.6
80°	41.9
82.5°	26.1
85°	13.0
87.5°	3.7
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	16.92	18.59	17.29	18.90	19.22	16.92	18.59	17.29	18.90	19.22
	3H	18.56	20.07	18.94	20.39	20.75	18.56	20.07	18.94	20.39	20.75
	4H	19.11	20.53	19.50	20.87	21.25	19.11	20.53	19.50	20.87	21.25
	6H	19.45	20.77	19.86	21.13	21.52	19.45	20.77	19.86	21.13	21.52
	8H	19.53	20.79	19.96	21.18	21.58	19.53	20.79	19.96	21.18	21.58
	12H	19.57	20.77	19.99	21.15	21.58	19.57	20.77	19.99	21.15	21.58
4H	2H	17.53	18.95	17.93	19.30	19.67	17.53	18.95	17.93	19.30	19.67
	3H	19.37	20.56	19.78	20.95	21.35	19.37	20.56	19.78	20.95	21.35
	4H	20.02	21.10	20.45	21.51	21.94	20.02	21.10	20.45	21.51	21.94
	6H	20.47	21.41	20.92	21.85	22.30	20.47	21.41	20.92	21.85	22.30
	8H	20.58	21.46	21.04	21.90	22.36	20.58	21.46	21.04	21.90	22.36
	12H	20.64	21.43	21.12	21.90	22.37	20.64	21.43	21.12	21.90	22.37
8H	4H	20.27	21.15	20.73	21.59	22.06	20.27	21.15	20.73	21.59	22.06
	6H	20.81	21.53	21.30	22.02	22.50	20.81	21.53	21.30	22.02	22.50
	8H	20.96	21.61	21.47	22.12	22.60	20.96	21.61	21.47	22.12	22.60
	12H	21.06	21.63	21.56	22.12	22.68	21.06	21.63	21.56	22.12	22.68
12H	4H	20.29	21.08	20.77	21.55	22.02	20.29	21.08	20.77	21.55	22.02
	6H	20.83	21.48	21.34	21.99	22.48	20.83	21.48	21.34	21.99	22.48
	8H	21.03	21.61	21.54	22.10	22.66	21.03	21.61	21.54	22.10	22.66