

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: P866269

Luminaire Tested: PRLX-2002-M-930-75L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-930-75L-G-U-S-X-X-BRSS-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

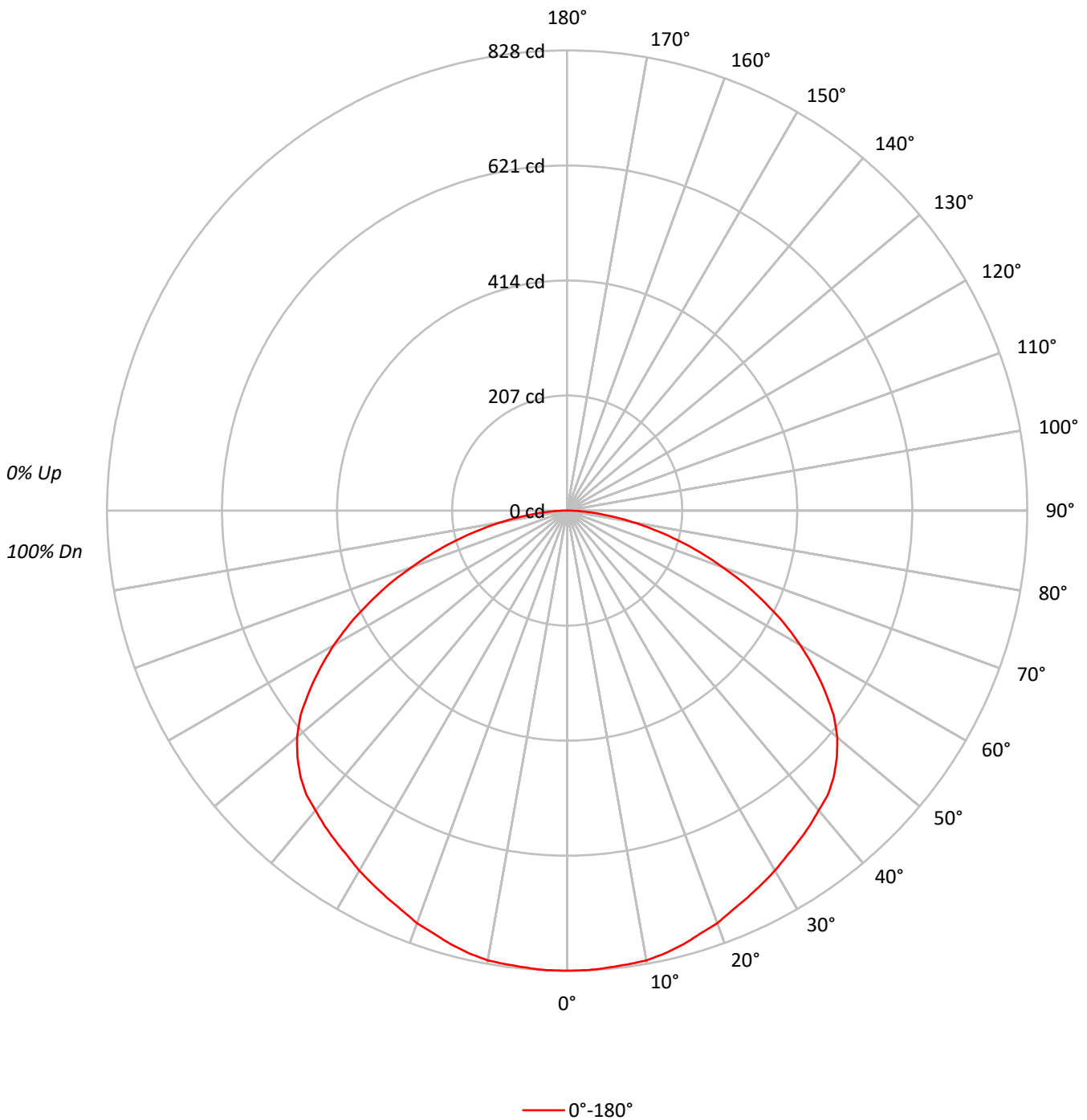
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2808.9 lumens  
Efficiency: N/A  
Efficacy: 40.3 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

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

	0°
0°	6586
5°	6595
10°	6639
15°	6654
20°	6688
25°	6742
30°	6872
35°	7052
40°	7312
45°	7631
50°	7851
55°	7858
60°	7712
65°	7398
70°	6913
75°	6317
80°	5484
85°	4372

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 7899 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	2.8
10°-20°	228.2	8.1
20°-30°	355.0	12.6
30°-40°	455.6	16.2
40°-50°	522.0	18.6
50°-60°	504.9	18.0
60°-70°	388.9	13.8
70°-80°	218.0	7.8
80°-90°	57.5	2.0
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°	662.0	23.6
0°-40°	1117.6	39.8
0°-60°	2144.5	76.3
0°-90°	2808.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	828	
5°	826	79
15°	808	228
25°	768	355
35°	726	456
45°	678	522
55°	566	505
65°	393	389
75°	206	218
85°	48	58
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	827.8
2.5°	827.8
5°	825.8
7.5°	823.8
10°	821.8
12.5°	815.9
15°	807.9
17.5°	797.9
20°	789.9
22.5°	778.0
25°	768.0
27.5°	758.0
30°	748.0
32.5°	736.1
35°	726.1
37.5°	716.1
40°	704.1
42.5°	694.2
45°	678.2
47.5°	658.3
50°	634.3
52.5°	604.4
55°	566.5
57.5°	526.6
60°	484.7
62.5°	440.8
65°	393.0
67.5°	347.1
70°	297.2
72.5°	251.3
75°	205.5
77.5°	161.6
80°	119.7
82.5°	81.8
85°	47.9
87.5°	21.9
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	19.66	21.37	20.03	21.68	21.99	19.66	21.37	20.03	21.68	21.99
	3H	21.47	23.02	21.85	23.34	23.70	21.47	23.02	21.85	23.34	23.70
	4H	22.13	23.58	22.52	23.93	24.30	22.13	23.58	22.52	23.93	24.30
	6H	22.59	23.94	23.00	24.30	24.69	22.59	23.94	23.00	24.30	24.69
	8H	22.73	24.02	23.15	24.41	24.81	22.73	24.02	23.15	24.41	24.81
	12H	22.82	24.06	23.24	24.44	24.87	22.82	24.06	23.24	24.44	24.87
4H	2H	20.32	21.77	20.71	22.12	22.49	20.32	21.77	20.71	22.12	22.49
	3H	22.33	23.56	22.74	23.96	24.36	22.33	23.56	22.74	23.96	24.36
	4H	23.11	24.22	23.54	24.63	25.07	23.11	24.22	23.54	24.63	25.07
	6H	23.70	24.67	24.15	25.11	25.56	23.70	24.67	24.15	25.11	25.56
	8H	23.88	24.79	24.34	25.23	25.70	23.88	24.79	24.34	25.23	25.70
	12H	24.01	24.83	24.49	25.30	25.77	24.01	24.83	24.49	25.30	25.77
8H	4H	23.42	24.33	23.88	24.77	25.24	23.42	24.33	23.88	24.77	25.24
	6H	24.12	24.88	24.61	25.36	25.84	24.12	24.88	24.61	25.36	25.84
	8H	24.37	25.05	24.88	25.55	26.04	24.37	25.05	24.88	25.55	26.04
	12H	24.56	25.16	25.07	25.65	26.21	24.56	25.16	25.07	25.65	26.21
12H	4H	23.46	24.28	23.94	24.75	25.22	23.46	24.28	23.94	24.75	25.22
	6H	24.17	24.85	24.68	25.36	25.84	24.17	24.85	24.68	25.36	25.84
	8H	24.48	25.08	24.98	25.57	26.13	24.48	25.08	24.98	25.57	26.13