

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: P865857

Luminaire Tested: PRLX-2004-S-940-05L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-940-05L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

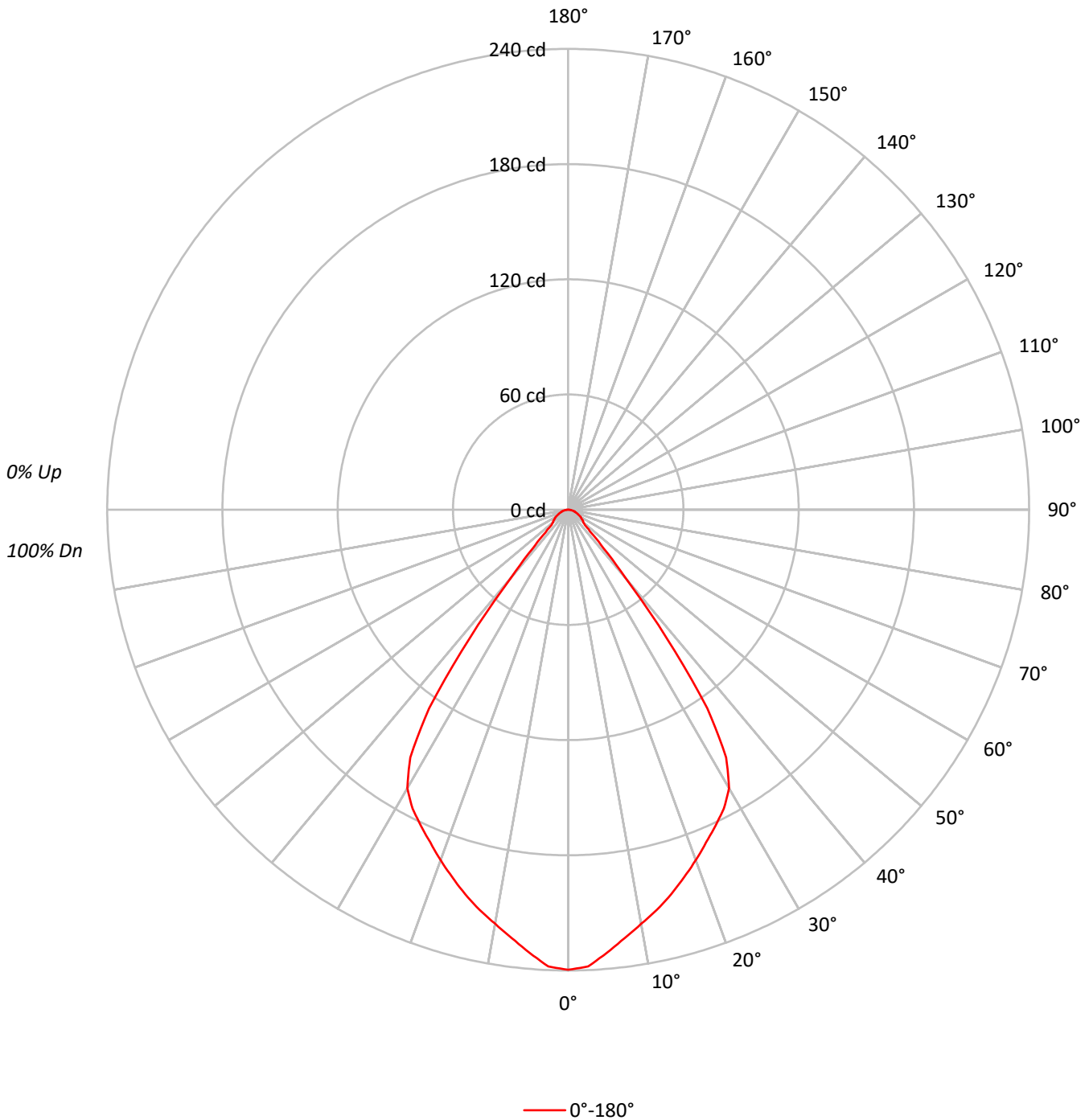
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 269.8 lumens  
Efficiency: N/A  
Efficacy: 43.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.02  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	67	65
6	84	74	68	63	83	74	67	63	72	67	62	71	66	62	69	65	62	60
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	56
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45

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

	0°
0°	3908
5°	3792
10°	3627
15°	3500
20°	3371
25°	3266
30°	3155
35°	2515
40°	977
45°	388
50°	261
55°	253
60°	245
65°	216
70°	200
75°	208
80°	178
85°	168

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 388 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.7	8.0
10°-20°	58.3	21.6
20°-30°	83.6	31.0
30°-40°	72.2	26.8
40°-50°	15.8	5.9
50°-60°	8.0	2.9
60°-70°	5.7	2.1
70°-80°	3.4	1.3
80°-90°	1.0	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°	163.6	60.7
0°-40°	235.8	87.4
0°-60°	259.6	96.2
0°-90°	269.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	269.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	240	
5°	232	22
15°	207	58
25°	182	84
35°	126	72
45°	17	16
55°	9	8
65°	6	6
75°	3	3
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	239.6
2.5°	238.1
5°	231.6
7.5°	225.0
10°	219.0
12.5°	213.4
15°	207.3
17.5°	200.7
20°	194.2
22.5°	187.6
25°	181.5
27.5°	175.5
30°	167.5
32.5°	153.0
35°	126.3
37.5°	83.8
40°	45.9
42.5°	27.1
45°	16.8
47.5°	11.7
50°	10.3
52.5°	9.8
55°	8.9
57.5°	8.0
60°	7.5
62.5°	6.6
65°	5.6
67.5°	5.1
70°	4.2
72.5°	3.7
75°	3.3
77.5°	2.8
80°	1.9
82.5°	1.4
85°	0.9
87.5°	0.5
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	2.02	3.09	2.39	3.40	3.72	2.02	3.09	2.39	3.40	3.72
	3H	3.62	4.56	4.00	4.89	5.26	3.62	4.56	4.00	4.89	5.26
	4H	4.29	5.17	4.70	5.52	5.91	4.29	5.17	4.70	5.52	5.91
	6H	4.83	5.63	5.25	6.01	6.40	4.83	5.63	5.25	6.01	6.40
	8H	4.98	5.73	5.41	6.12	6.53	4.98	5.73	5.41	6.12	6.53
	12H	5.07	5.79	5.51	6.18	6.61	5.07	5.79	5.51	6.18	6.61
4H	2H	2.48	3.36	2.89	3.71	4.10	2.48	3.36	2.89	3.71	4.10
	3H	4.28	5.00	4.70	5.41	5.81	4.28	5.00	4.70	5.41	5.81
	4H	5.12	5.76	5.56	6.18	6.63	5.12	5.76	5.56	6.18	6.63
	6H	5.79	6.34	6.26	6.79	7.26	5.79	6.34	6.26	6.79	7.26
	8H	5.97	6.49	6.45	6.94	7.41	5.97	6.49	6.45	6.94	7.41
	12H	6.12	6.56	6.61	7.05	7.52	6.12	6.56	6.61	7.05	7.52
8H	4H	5.39	5.90	5.87	6.35	6.83	5.39	5.90	5.87	6.35	6.83
	6H	6.18	6.58	6.68	7.09	7.57	6.18	6.58	6.68	7.09	7.57
	8H	6.44	6.81	6.97	7.33	7.83	6.44	6.81	6.97	7.33	7.83
	12H	6.67	6.99	7.19	7.49	8.06	6.67	6.99	7.19	7.49	8.06
12H	4H	5.39	5.84	5.88	6.33	6.80	5.39	5.84	5.88	6.33	6.80
	6H	6.21	6.57	6.74	7.09	7.59	6.21	6.57	6.74	7.09	7.59
	8H	6.54	6.85	7.06	7.35	7.93	6.54	6.85	7.06	7.35	7.93