

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: P866265

Luminaire Tested: PRLX-2002-M-930-65L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-930-65L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

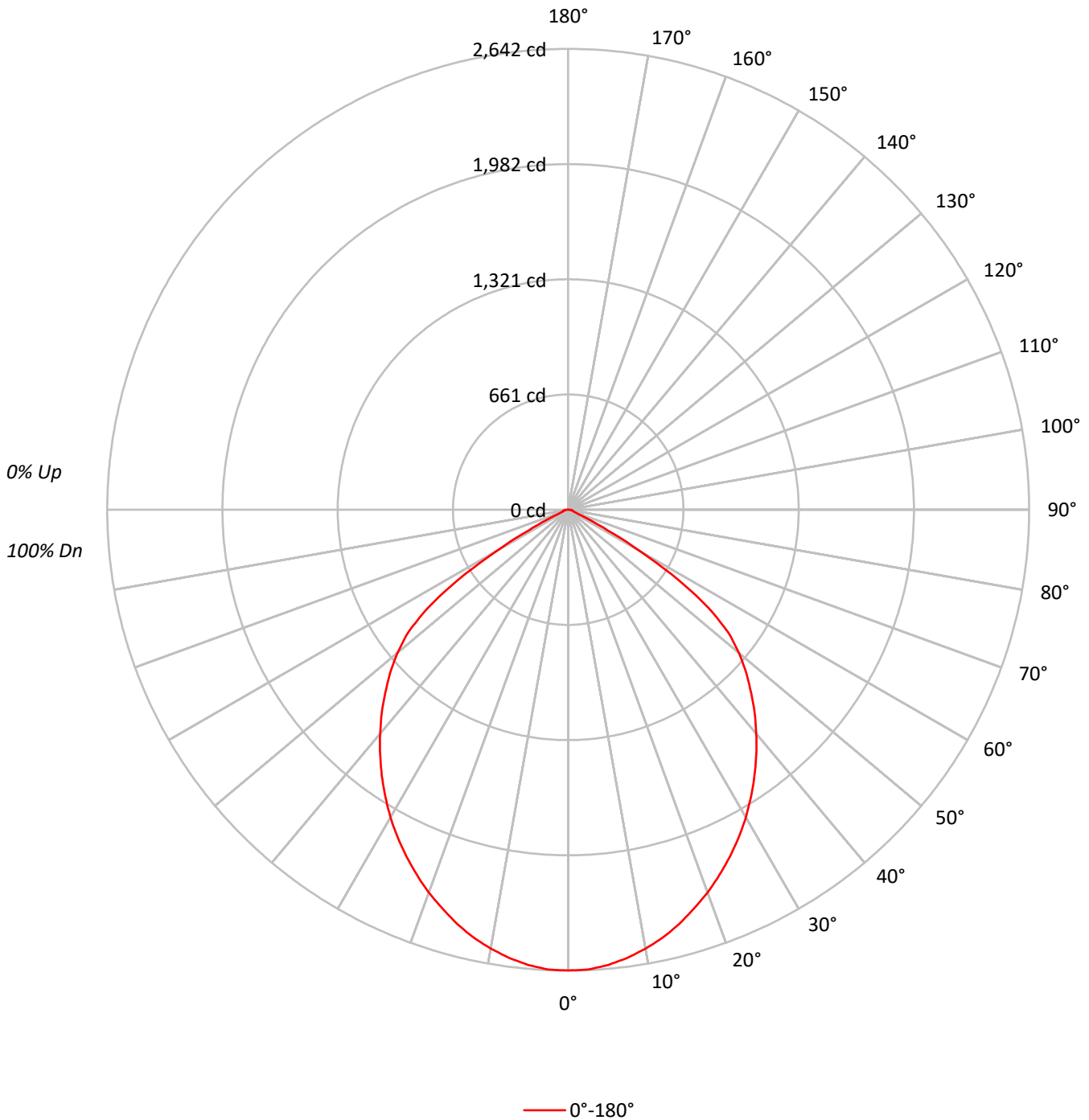
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5304.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.6  
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	111	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84		89	85	82		86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73		80	76	72		78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64		73	67	63		71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45		55	49	45		54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	37		46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34		44	38	33		43	37	33	32

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

	0°
0°	21016
5°	20930
10°	20641
15°	20248
20°	19774
25°	19258
30°	18708
35°	18083
40°	17415
45°	16670
50°	15813
55°	13619
60°	7510
65°	2116
70°	844
75°	904
80°	1031
85°	1260

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16670 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.0	4.7
10°-20°	692.2	13.1
20°-30°	1010.1	19.0
30°-40°	1163.9	21.9
40°-50°	1142.7	21.5
50°-60°	838.0	15.8
60°-70°	164.2	3.1
70°-80°	31.0	0.6
80°-90°	13.9	0.3
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°	1950.3	36.8
0°-40°	3114.2	58.7
0°-60°	5094.9	96.1
0°-90°	5304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5304.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2642	
5°	2621	248
15°	2458	692
25°	2194	1010
35°	1862	1164
45°	1482	1143
55°	982	838
65°	112	164
75°	29	31
85°	14	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2641.6
2.5°	2638.1
5°	2620.8
7.5°	2591.4
10°	2555.1
12.5°	2511.9
15°	2458.3
17.5°	2397.8
20°	2335.6
22.5°	2266.4
25°	2193.8
27.5°	2117.8
30°	2036.5
32.5°	1950.1
35°	1861.9
37.5°	1770.3
40°	1676.9
42.5°	1581.8
45°	1481.6
47.5°	1383.0
50°	1277.6
52.5°	1158.3
55°	981.9
57.5°	752.0
60°	472.0
62.5°	254.1
65°	112.4
67.5°	51.9
70°	36.3
72.5°	32.8
75°	29.4
77.5°	25.9
80°	22.5
82.5°	19.0
85°	13.8
87.5°	6.9
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	20.13	21.55	20.49	21.87	22.18	20.13	21.55	20.49	21.87	22.18
	3H	20.03	21.29	20.41	21.62	21.98	20.03	21.29	20.41	21.62	21.98
	4H	19.98	21.15	20.38	21.50	21.88	19.98	21.15	20.38	21.50	21.88
	6H	19.92	21.00	20.34	21.37	21.76	19.92	21.00	20.34	21.37	21.76
	8H	19.89	20.91	20.32	21.30	21.71	19.89	20.91	20.32	21.30	21.71
	12H	19.87	20.84	20.30	21.22	21.65	19.87	20.84	20.30	21.22	21.65
4H	2H	19.99	21.16	20.39	21.51	21.89	19.99	21.16	20.39	21.51	21.89
	3H	19.90	20.85	20.32	21.25	21.65	19.90	20.85	20.32	21.25	21.65
	4H	19.84	20.68	20.28	21.10	21.54	19.84	20.68	20.28	21.10	21.54
	6H	19.80	20.52	20.26	20.97	21.43	19.80	20.52	20.26	20.97	21.43
	8H	19.76	20.44	20.23	20.89	21.36	19.76	20.44	20.23	20.89	21.36
	12H	19.74	20.34	20.22	20.82	21.30	19.74	20.34	20.22	20.82	21.30
8H	4H	19.73	20.41	20.20	20.85	21.32	19.73	20.41	20.20	20.85	21.32
	6H	19.67	20.23	20.17	20.72	21.20	19.67	20.23	20.17	20.72	21.20
	8H	19.64	20.14	20.15	20.66	21.15	19.64	20.14	20.15	20.66	21.15
	12H	19.62	20.08	20.13	20.57	21.14	19.62	20.08	20.13	20.57	21.14
12H	4H	19.69	20.29	20.17	20.77	21.24	19.69	20.29	20.17	20.77	21.24
	6H	19.61	20.12	20.13	20.63	21.12	19.61	20.12	20.13	20.63	21.12
	8H	19.60	20.06	20.11	20.55	21.12	19.60	20.06	20.11	20.55	21.12