

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: P867157

Luminaire Tested: PRLX-2002-L-940-67L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-940-67L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

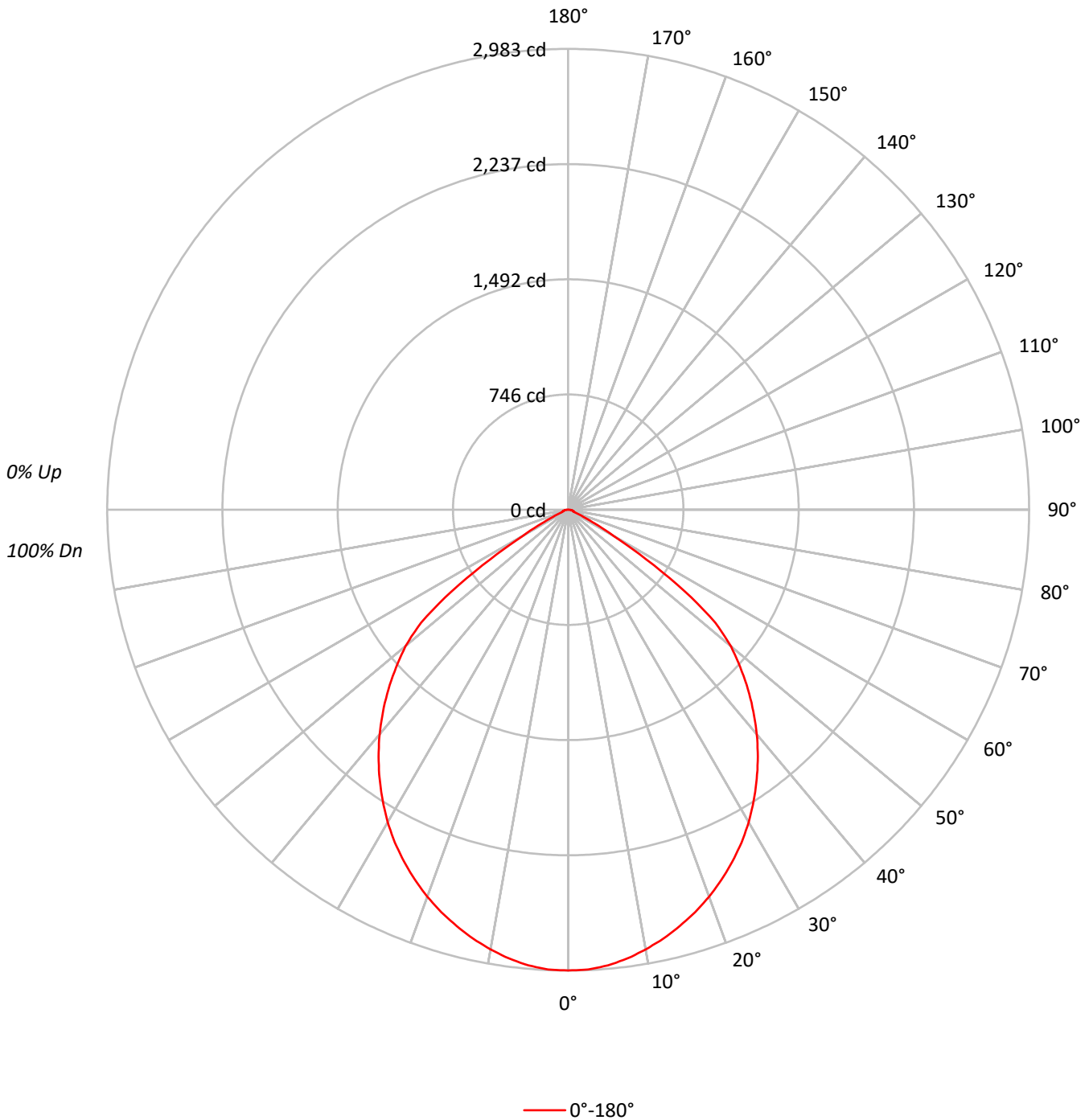
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5791.1 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	77	73		78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	50	46		55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35		45	39	35		44	38	34	33

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

	0°
0°	14716
5°	14663
10°	14479
15°	14251
20°	13996
25°	13683
30°	13306
35°	12814
40°	12229
45°	11485
50°	10552
55°	7937
60°	3341
65°	1232
70°	567
75°	620
80°	716
85°	832

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11485 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.4	4.8
10°-20°	786.4	13.6
20°-30°	1156.9	20.0
30°-40°	1328.7	22.9
40°-50°	1265.7	21.9
50°-60°	792.7	13.7
60°-70°	131.2	2.3
70°-80°	34.3	0.6
80°-90°	14.9	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°	2223.7	38.4
0°-40°	3552.3	61.3
0°-60°	5610.7	96.9
0°-90°	5791.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5791.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2983	
5°	2961	280
15°	2790	786
25°	2513	1157
35°	2128	1329
45°	1646	1266
55°	923	793
65°	106	131
75°	32	34
85°	15	15
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2982.7
2.5°	2979.7
5°	2960.6
7.5°	2930.6
10°	2890.1
12.5°	2844.1
15°	2790.1
17.5°	2731.2
20°	2665.6
22.5°	2592.6
25°	2513.4
27.5°	2429.4
30°	2335.5
32.5°	2233.7
35°	2127.5
37.5°	2015.9
40°	1898.7
42.5°	1774.2
45°	1646.0
47.5°	1509.2
50°	1374.8
52.5°	1200.6
55°	922.7
57.5°	596.3
60°	338.6
62.5°	192.0
65°	105.5
67.5°	49.7
70°	39.3
72.5°	36.2
75°	32.5
77.5°	28.8
80°	25.2
82.5°	20.2
85°	14.7
87.5°	7.4
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	16.56	17.95	16.93	18.27	18.58	16.56	17.95	16.93	18.27	18.58
	3H	16.48	17.70	16.86	18.03	18.40	16.48	17.70	16.86	18.03	18.40
	4H	16.43	17.57	16.84	17.92	18.30	16.43	17.57	16.84	17.92	18.30
	6H	16.39	17.44	16.81	17.81	18.20	16.39	17.44	16.81	17.81	18.20
	8H	16.37	17.36	16.80	17.75	18.15	16.37	17.36	16.80	17.75	18.15
	12H	16.35	17.29	16.78	17.68	18.11	16.35	17.29	16.78	17.68	18.11
4H	2H	16.43	17.57	16.83	17.92	18.30	16.43	17.57	16.83	17.92	18.30
	3H	16.36	17.28	16.78	17.68	18.09	16.36	17.28	16.78	17.68	18.09
	4H	16.32	17.14	16.76	17.56	18.00	16.32	17.14	16.76	17.56	18.00
	6H	16.30	17.01	16.76	17.45	17.92	16.30	17.01	16.76	17.45	17.92
	8H	16.28	16.94	16.75	17.38	17.85	16.28	16.94	16.75	17.38	17.85
	12H	16.27	16.85	16.75	17.33	17.81	16.27	16.85	16.75	17.33	17.81
8H	4H	16.21	16.87	16.68	17.32	17.79	16.21	16.87	16.68	17.32	17.79
	6H	16.19	16.73	16.69	17.23	17.71	16.19	16.73	16.69	17.23	17.71
	8H	16.18	16.67	16.70	17.19	17.68	16.18	16.67	16.70	17.19	17.68
	12H	16.19	16.63	16.70	17.12	17.69	16.19	16.63	16.70	17.12	17.69
12H	4H	16.17	16.75	16.66	17.24	17.71	16.17	16.75	16.66	17.24	17.71
	6H	16.14	16.63	16.66	17.15	17.64	16.14	16.63	16.66	17.15	17.64
	8H	16.15	16.59	16.67	17.09	17.66	16.15	16.59	16.67	17.09	17.66