

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: P866927

Luminaire Tested: PRLX-2002-L-927-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-927-117L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

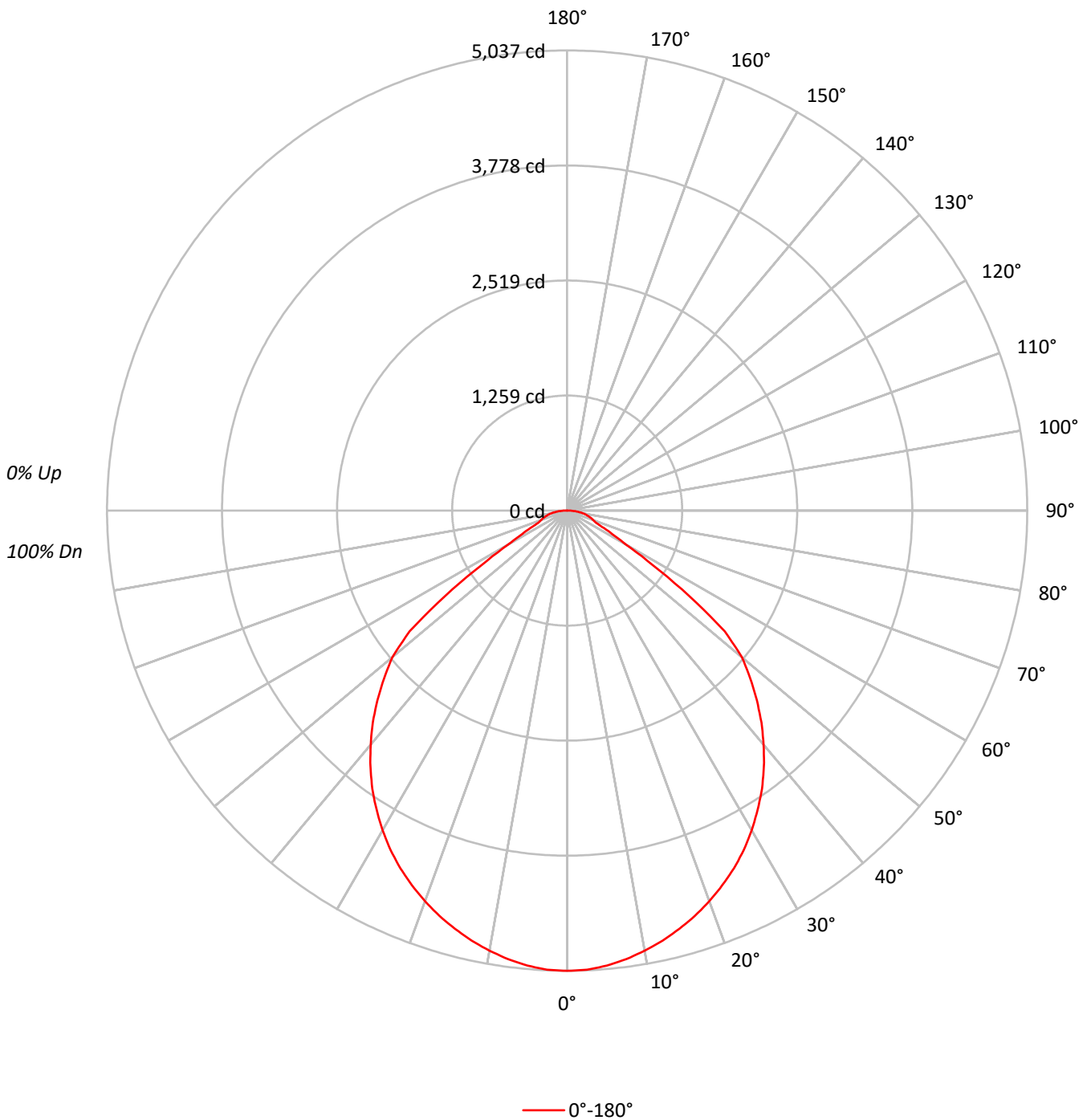
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10640.5 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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: 0.333 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	111	107	103	100	108	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	54		63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44		54	48	43		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	36		45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	36	32	31

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

	0°
0°	24854
5°	24762
10°	24506
15°	24211
20°	23884
25°	23513
30°	23014
35°	22387
40°	21550
45°	20483
50°	19166
55°	14039
60°	7338
65°	4889
70°	4372
75°	4648
80°	5080
85°	5593

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20483 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.8	4.5
10°-20°	1336.9	12.6
20°-30°	1988.1	18.7
30°-40°	2320.6	21.8
40°-50°	2260.8	21.2
50°-60°	1448.4	13.6
60°-70°	451.0	4.2
70°-80°	256.9	2.4
80°-90°	104.0	1.0
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°	3798.7	35.7
0°-40°	6119.4	57.5
0°-60°	9828.6	92.4
0°-90°	10640.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10640.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5037	
5°	5000	474
15°	4740	1337
25°	4319	1988
35°	3717	2321
45°	2936	2261
55°	1632	1448
65°	419	451
75°	244	257
85°	99	104
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5037.4
2.5°	5029.9
5°	4999.7
7.5°	4952.7
10°	4891.5
12.5°	4822.8
15°	4740.0
17.5°	4651.5
20°	4548.9
22.5°	4438.8
25°	4319.2
27.5°	4187.5
30°	4039.7
32.5°	3882.5
35°	3716.9
37.5°	3538.0
40°	3346.0
42.5°	3147.4
45°	2935.6
47.5°	2719.2
50°	2497.0
52.5°	2173.3
55°	1632.1
57.5°	1105.0
60°	743.6
62.5°	554.4
65°	418.8
67.5°	332.2
70°	303.1
72.5°	275.8
75°	243.8
77.5°	212.7
80°	178.8
82.5°	141.2
85°	98.8
87.5°	52.7
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	18.71	20.17	19.08	20.48	20.80	18.71	20.17	19.08	20.48	20.80
	3H	19.13	20.42	19.51	20.75	21.11	19.13	20.42	19.51	20.75	21.11
	4H	19.41	20.62	19.81	20.97	21.35	19.41	20.62	19.81	20.97	21.35
	6H	19.73	20.84	20.15	21.21	21.60	19.73	20.84	20.15	21.21	21.60
	8H	19.88	20.93	20.31	21.32	21.72	19.88	20.93	20.31	21.32	21.72
	12H	20.00	21.01	20.44	21.39	21.82	20.00	21.01	20.44	21.39	21.82
4H	2H	18.77	19.98	19.17	20.32	20.70	18.77	19.98	19.17	20.32	20.70
	3H	19.39	20.37	19.80	20.77	21.17	19.39	20.37	19.80	20.77	21.17
	4H	19.81	20.69	20.24	21.11	21.55	19.81	20.69	20.24	21.11	21.55
	6H	20.30	21.06	20.76	21.51	21.97	20.30	21.06	20.76	21.51	21.97
	8H	20.52	21.24	20.99	21.68	22.15	20.52	21.24	20.99	21.68	22.15
	12H	20.72	21.36	21.21	21.84	22.31	20.72	21.36	21.21	21.84	22.31
8H	4H	19.95	20.67	20.42	21.11	21.58	19.95	20.67	20.42	21.11	21.58
	6H	20.59	21.18	21.09	21.67	22.15	20.59	21.18	21.09	21.67	22.15
	8H	20.90	21.44	21.42	21.95	22.44	20.90	21.44	21.42	21.95	22.44
	12H	21.21	21.69	21.72	22.19	22.75	21.21	21.69	21.72	22.19	22.75
12H	4H	19.97	20.61	20.45	21.09	21.56	19.97	20.61	20.45	21.09	21.56
	6H	20.63	21.17	21.15	21.68	22.17	20.63	21.17	21.15	21.68	22.17
	8H	21.02	21.50	21.53	21.99	22.56	21.02	21.50	21.53	21.99	22.56