

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: P867015

Luminaire Tested: PRLX-2002-L-930-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867015  
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-930-32L-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 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

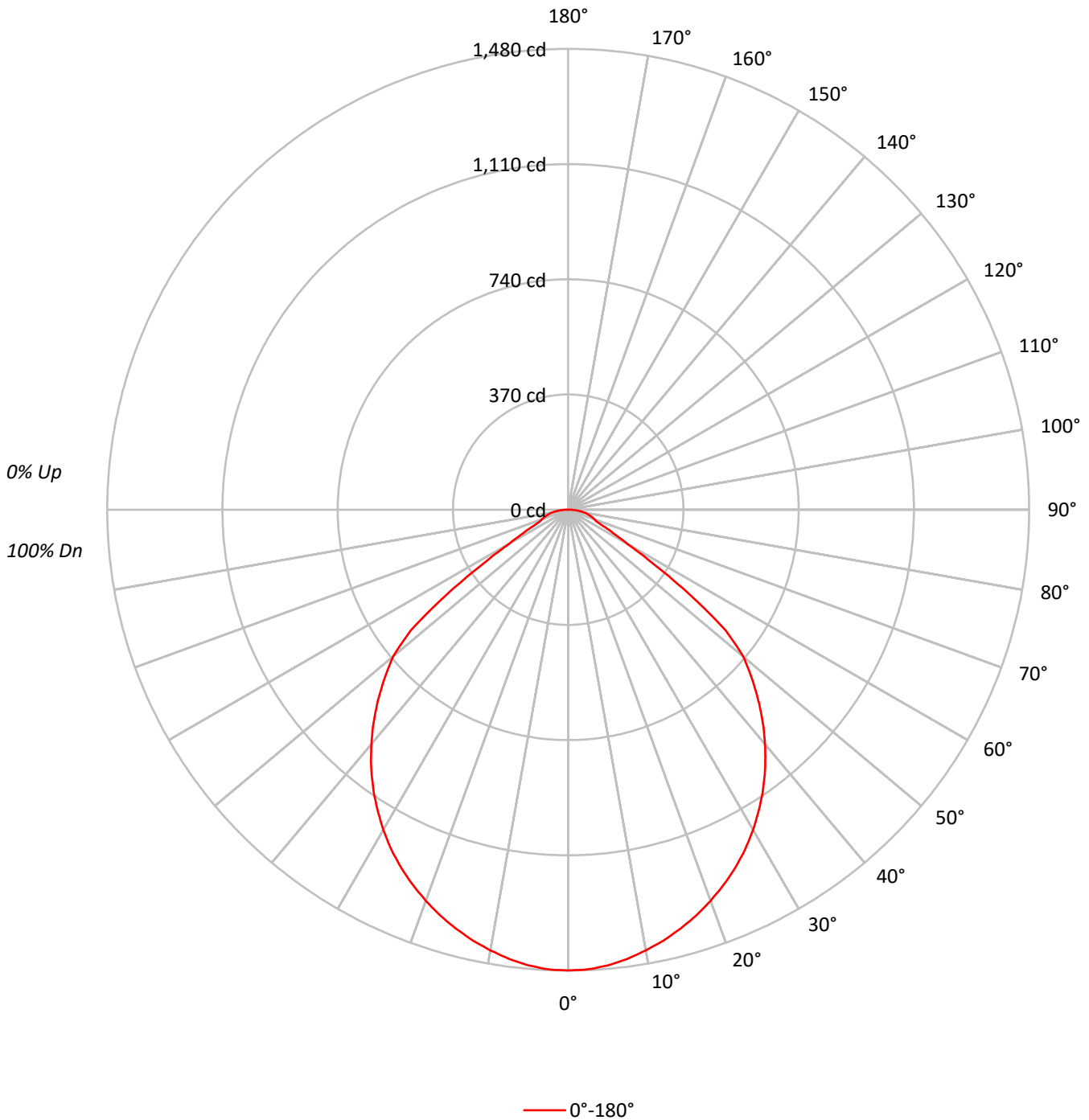
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3125.9 lumens  
Efficiency: N/A  
Efficacy: 119.8 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): 26.1  
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°	7301
5°	7274
10°	7199
15°	7113
20°	7016
25°	6908
30°	6761
35°	6577
40°	6331
45°	6017
50°	5631
55°	4125
60°	2155
65°	1436
70°	1284
75°	1365
80°	1492
85°	1642

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6017 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.2	4.5
10°-20°	392.7	12.6
20°-30°	584.0	18.7
30°-40°	681.7	21.8
40°-50°	664.2	21.2
50°-60°	425.5	13.6
60°-70°	132.5	4.2
70°-80°	75.5	2.4
80°-90°	30.6	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°	1116.0	35.7
0°-40°	1797.7	57.5
0°-60°	2887.4	92.4
0°-90°	3125.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1480	
5°	1469	139
15°	1392	393
25°	1269	584
35°	1092	682
45°	862	664
55°	480	426
65°	123	132
75°	72	75
85°	29	31
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1479.8
2.5°	1477.6
5°	1468.8
7.5°	1455.0
10°	1437.0
12.5°	1416.8
15°	1392.5
17.5°	1366.5
20°	1336.3
22.5°	1304.0
25°	1268.9
27.5°	1230.2
30°	1186.7
32.5°	1140.6
35°	1091.9
37.5°	1039.4
40°	983.0
42.5°	924.6
45°	862.4
47.5°	798.8
50°	733.6
52.5°	638.4
55°	479.5
57.5°	324.6
60°	218.4
62.5°	162.9
65°	123.0
67.5°	97.6
70°	89.0
72.5°	81.0
75°	71.6
77.5°	62.5
80°	52.5
82.5°	41.5
85°	29.0
87.5°	15.5
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	14.46	15.91	14.82	16.22	16.54	14.46	15.91	14.82	16.22	16.54
	3H	14.87	16.16	15.25	16.49	16.85	14.87	16.16	15.25	16.49	16.85
	4H	15.16	16.36	15.56	16.71	17.09	15.16	16.36	15.56	16.71	17.09
	6H	15.48	16.58	15.89	16.95	17.35	15.48	16.58	15.89	16.95	17.35
	8H	15.62	16.67	16.05	17.07	17.47	15.62	16.67	16.05	17.07	17.47
	12H	15.75	16.75	16.18	17.14	17.57	15.75	16.75	16.18	17.14	17.57
4H	2H	14.51	15.72	14.92	16.07	16.45	14.51	15.72	14.92	16.07	16.45
	3H	15.13	16.11	15.54	16.52	16.92	15.13	16.11	15.54	16.52	16.92
	4H	15.55	16.43	15.99	16.85	17.29	15.55	16.43	15.99	16.85	17.29
	6H	16.05	16.81	16.50	17.25	17.72	16.05	16.81	16.50	17.25	17.72
	8H	16.27	16.98	16.73	17.43	17.90	16.27	16.98	16.73	17.43	17.90
	12H	16.47	17.10	16.95	17.58	18.06	16.47	17.10	16.95	17.58	18.06
8H	4H	15.70	16.41	16.16	16.86	17.33	15.70	16.41	16.16	16.86	17.33
	6H	16.33	16.92	16.83	17.42	17.89	16.33	16.92	16.83	17.42	17.89
	8H	16.65	17.18	17.16	17.70	18.19	16.65	17.18	17.16	17.70	18.19
	12H	16.96	17.44	17.47	17.93	18.50	16.96	17.44	17.47	17.93	18.50
12H	4H	15.71	16.35	16.20	16.83	17.30	15.71	16.35	16.20	16.83	17.30
	6H	16.38	16.91	16.89	17.43	17.91	16.38	16.91	16.89	17.43	17.91
	8H	16.76	17.24	17.27	17.73	18.30	16.76	17.24	17.27	17.73	18.30