

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: P867019

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867019  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-930-32L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

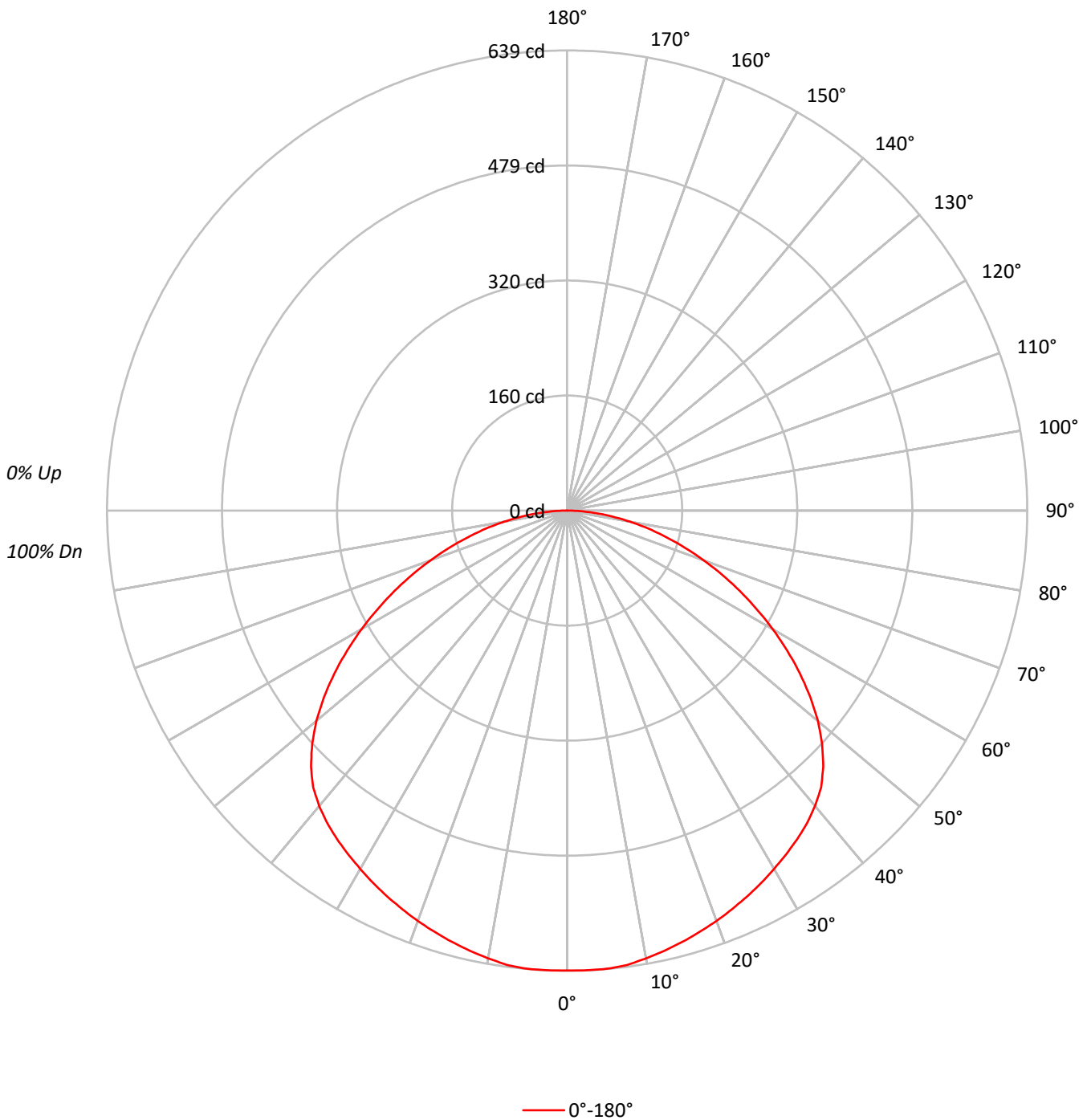
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2055.3 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
Input Voltage (V): 120  
Input Current (Ain): 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	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

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

	0°
0°	3151
5°	3163
10°	3163
15°	3166
20°	3184
25°	3218
30°	3274
35°	3354
40°	3450
45°	3510
50°	3489
55°	3396
60°	3255
65°	3089
70°	2904
75°	2709
80°	2515
85°	2236

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3510 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	3.0
10°-20°	175.2	8.5
20°-30°	273.1	13.3
30°-40°	349.0	17.0
40°-50°	386.4	18.8
50°-60°	352.1	17.1
60°-70°	262.4	12.8
70°-80°	151.5	7.4
80°-90°	44.9	2.2
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°	509.1	24.8
0°-40°	858.1	41.7
0°-60°	1596.6	77.7
0°-90°	2055.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	639	
5°	639	61
15°	620	175
25°	591	273
35°	557	349
45°	503	386
55°	395	352
65°	265	262
75°	142	151
85°	40	45
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	638.7
2.5°	639.0
5°	638.7
7.5°	636.5
10°	631.3
12.5°	626.0
15°	619.9
17.5°	613.3
20°	606.4
22.5°	598.9
25°	591.2
27.5°	583.1
30°	574.6
32.5°	566.0
35°	556.9
37.5°	547.2
40°	535.6
42.5°	521.8
45°	503.0
47.5°	480.3
50°	454.6
52.5°	425.5
55°	394.8
57.5°	362.2
60°	329.9
62.5°	297.2
65°	264.6
67.5°	233.1
70°	201.3
72.5°	171.7
75°	142.1
77.5°	115.6
80°	88.5
82.5°	63.0
85°	39.5
87.5°	18.2
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	16.52	18.19	16.88	18.51	18.82	16.52	18.19	16.88	18.51	18.82
	3H	18.27	19.78	18.64	20.11	20.47	18.27	19.78	18.64	20.11	20.47
	4H	18.93	20.36	19.33	20.71	21.08	18.93	20.36	19.33	20.71	21.08
	6H	19.45	20.78	19.86	21.14	21.53	19.45	20.78	19.86	21.14	21.53
	8H	19.62	20.89	20.05	21.28	21.68	19.62	20.89	20.05	21.28	21.68
	12H	19.75	20.96	20.17	21.35	21.77	19.75	20.96	20.17	21.35	21.77
4H	2H	17.14	18.57	17.53	18.91	19.29	17.14	18.57	17.53	18.91	19.29
	3H	19.11	20.31	19.52	20.71	21.11	19.11	20.31	19.52	20.71	21.11
	4H	19.91	21.00	20.34	21.41	21.85	19.91	21.00	20.34	21.41	21.85
	6H	20.56	21.52	21.02	21.96	22.41	20.56	21.52	21.02	21.96	22.41
	8H	20.79	21.68	21.25	22.13	22.59	20.79	21.68	21.25	22.13	22.59
	12H	20.96	21.77	21.44	22.24	22.71	20.96	21.77	21.44	22.24	22.71
8H	4H	20.23	21.13	20.69	21.57	22.03	20.23	21.13	20.69	21.57	22.03
	6H	21.01	21.76	21.51	22.25	22.72	21.01	21.76	21.51	22.25	22.72
	8H	21.32	21.99	21.83	22.49	22.98	21.32	21.99	21.83	22.49	22.98
	12H	21.57	22.17	22.08	22.66	23.21	21.57	22.17	22.08	22.66	23.21
12H	4H	20.27	21.08	20.75	21.55	22.02	20.27	21.08	20.75	21.55	22.02
	6H	21.08	21.75	21.59	22.26	22.74	21.08	21.75	21.59	22.26	22.74
	8H	21.45	22.04	21.95	22.53	23.09	21.45	22.04	21.95	22.53	23.09