

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: P867140

Luminaire Tested: PRLX-2002-L-940-32L-L-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-940-32L-L-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

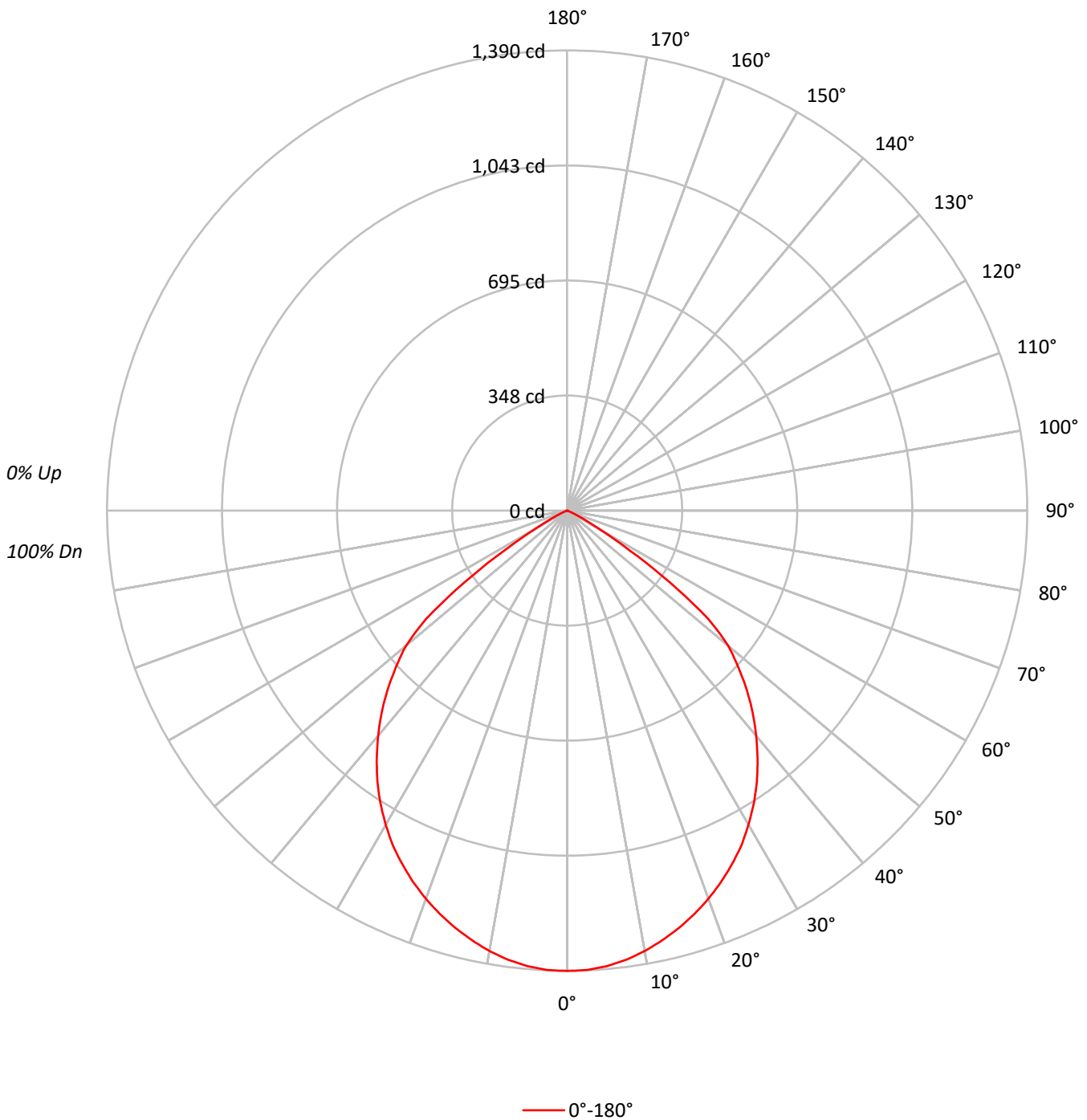
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2629.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27  
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: 0.5 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	109	105	103	109	106	104	101	102	100	98		98	97	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66		75	70	66		73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59		68	63	58		66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43		53	47	43		52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36		45	40	35		45	39	35	34

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

	0°
0°	6860
5°	6841
10°	6767
15°	6667
20°	6550
25°	6417
30°	6243
35°	6018
40°	5719
45°	5355
50°	4881
55°	3264
60°	1159
65°	269
70°	43
75°	46
80°	60
85°	68

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5355 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.9	5.0
10°-20°	367.8	14.0
20°-30°	542.4	20.6
30°-40°	623.3	23.7
40°-50°	590.1	22.4
50°-60°	336.0	12.8
60°-70°	35.7	1.4
70°-80°	2.6	0.1
80°-90°	1.2	0.0
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°	1041.1	39.6
0°-40°	1664.4	63.3
0°-60°	2590.5	98.5
0°-90°	2629.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1390	
5°	1381	131
15°	1305	368
25°	1179	542
35°	999	623
45°	767	590
55°	379	336
65°	23	36
75°	2	3
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1390.5
2.5°	1389.0
5°	1381.2
7.5°	1368.4
10°	1350.8
12.5°	1329.3
15°	1305.2
17.5°	1277.7
20°	1247.6
22.5°	1214.8
25°	1178.7
27.5°	1139.9
30°	1095.8
32.5°	1049.3
35°	999.2
37.5°	944.9
40°	887.9
42.5°	830.3
45°	767.4
47.5°	702.1
50°	635.9
52.5°	536.9
55°	379.4
57.5°	226.4
60°	117.5
62.5°	58.8
65°	23.0
67.5°	4.5
70°	3.0
72.5°	2.7
75°	2.4
77.5°	2.1
80°	2.1
82.5°	1.5
85°	1.2
87.5°	0.6
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	12.59	13.95	12.95	14.26	14.58	12.59	13.95	12.95	14.26	14.58
	3H	12.46	13.66	12.84	13.99	14.35	12.46	13.66	12.84	13.99	14.35
	4H	12.39	13.50	12.79	13.85	14.23	12.39	13.50	12.79	13.85	14.23
	6H	12.32	13.33	12.73	13.70	14.10	12.32	13.33	12.73	13.70	14.10
	8H	12.28	13.24	12.71	13.63	14.03	12.28	13.24	12.71	13.63	14.03
	12H	12.24	13.15	12.67	13.53	13.97	12.24	13.15	12.67	13.53	13.97
4H	2H	12.41	13.52	12.82	13.87	14.25	12.41	13.52	12.82	13.87	14.25
	3H	12.29	13.18	12.70	13.58	13.99	12.29	13.18	12.70	13.58	13.99
	4H	12.21	12.99	12.64	13.41	13.86	12.21	12.99	12.64	13.41	13.86
	6H	12.13	12.80	12.59	13.25	13.72	12.13	12.80	12.59	13.25	13.72
	8H	12.07	12.70	12.54	13.15	13.62	12.07	12.70	12.54	13.15	13.62
	12H	12.02	12.58	12.51	13.07	13.54	12.02	12.58	12.51	13.07	13.54
8H	4H	12.07	12.70	12.54	13.15	13.62	12.07	12.70	12.54	13.15	13.62
	6H	11.96	12.48	12.46	12.98	13.46	11.96	12.48	12.46	12.98	13.46
	8H	11.89	12.37	12.42	12.88	13.38	11.89	12.37	12.42	12.88	13.38
	12H	11.84	12.27	12.36	12.77	13.34	11.84	12.27	12.36	12.77	13.34
12H	4H	12.02	12.58	12.50	13.06	13.54	12.02	12.58	12.50	13.06	13.54
	6H	11.89	12.37	12.41	12.88	13.37	11.89	12.37	12.41	12.88	13.37
	8H	11.84	12.27	12.36	12.76	13.33	11.84	12.27	12.36	12.76	13.33