

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: P867146

Luminaire Tested: PRLX-2002-L-940-32L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-940-32L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

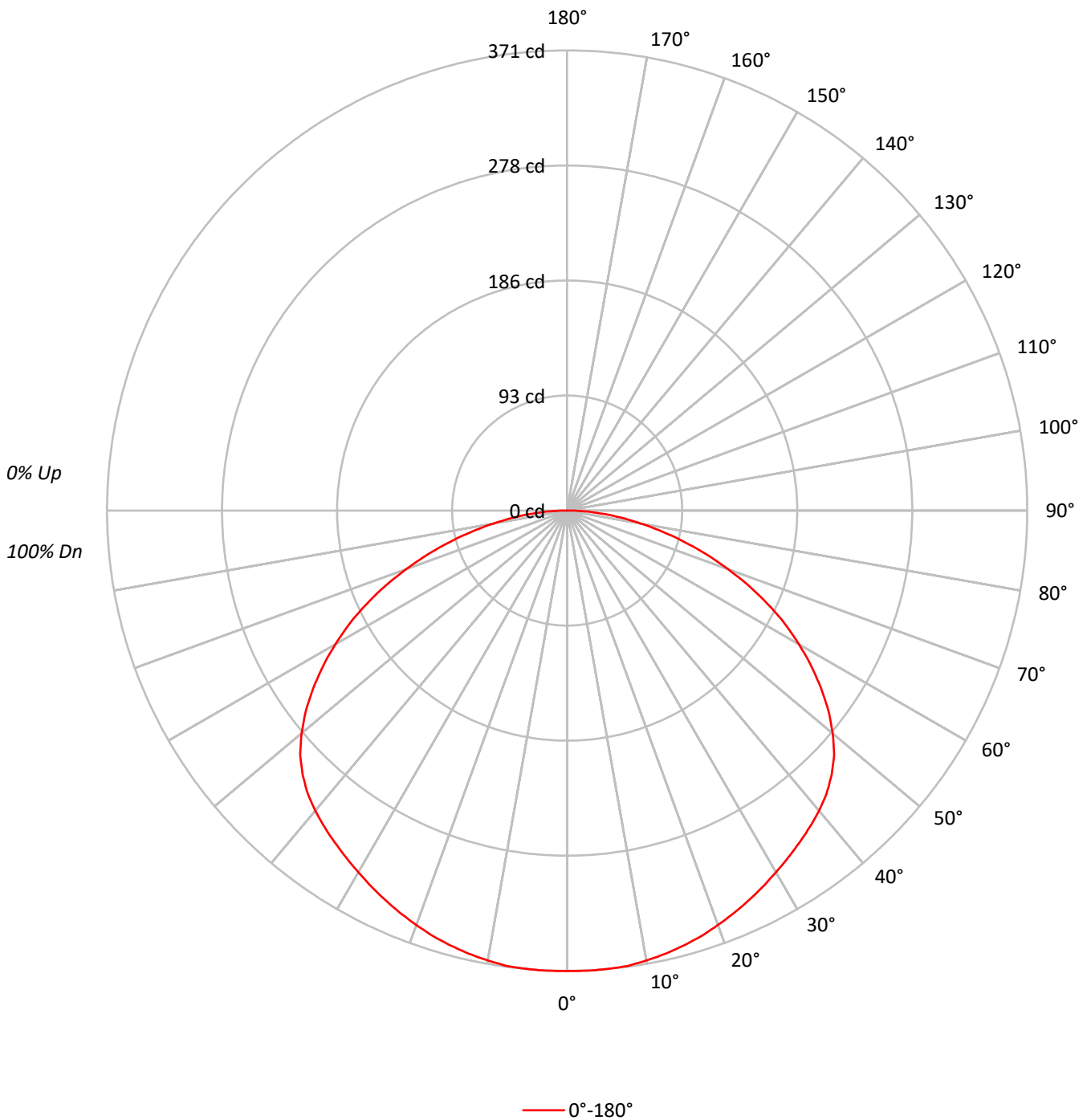
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1269.8 lumens  
Efficiency: N/A  
Efficacy: 48.7 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
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: 0.5 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	108	103	98	94	105	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	22

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

	0°
0°	1832
5°	1837
10°	1845
15°	1854
20°	1867
25°	1887
30°	1918
35°	1967
40°	2035
45°	2104
50°	2145
55°	2150
60°	2130
65°	2086
70°	1988
75°	1870
80°	1719
85°	1585

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 2153 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	2.8
10°-20°	102.6	8.1
20°-30°	160.1	12.6
30°-40°	204.9	16.1
40°-50°	232.1	18.3
50°-60°	223.0	17.6
60°-70°	176.3	13.9
70°-80°	103.9	8.2
80°-90°	31.6	2.5
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°	298.1	23.5
0°-40°	502.9	39.6
0°-60°	958.1	75.4
0°-90°	1269.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1269.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	371	
5°	371	35
15°	363	103
25°	347	160
35°	327	205
45°	302	232
55°	250	223
65°	179	176
75°	98	104
85°	28	32
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	371.3
2.5°	371.3
5°	371.0
7.5°	370.4
10°	368.3
12.5°	366.0
15°	363.0
17.5°	359.7
20°	355.5
22.5°	351.3
25°	346.6
27.5°	341.8
30°	336.7
32.5°	331.7
35°	326.6
37.5°	321.5
40°	315.9
42.5°	309.6
45°	301.5
47.5°	292.0
50°	279.5
52.5°	265.7
55°	249.9
57.5°	233.5
60°	215.9
62.5°	198.0
65°	178.7
67.5°	158.7
70°	137.8
72.5°	118.1
75°	98.1
77.5°	78.7
80°	60.5
82.5°	43.5
85°	28.0
87.5°	14.3
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	15.11	16.81	15.47	17.13	17.44	15.11	16.81	15.47	17.13	17.44
	3H	17.02	18.57	17.40	18.90	19.26	17.02	18.57	17.40	18.90	19.26
	4H	17.75	19.21	18.14	19.56	19.93	17.75	19.21	18.14	19.56	19.93
	6H	18.29	19.65	18.70	20.01	20.40	18.29	19.65	18.70	20.01	20.40
	8H	18.48	19.78	18.90	20.17	20.56	18.48	19.78	18.90	20.17	20.56
	12H	18.61	19.86	19.04	20.24	20.67	18.61	19.86	19.04	20.24	20.67
4H	2H	15.79	17.26	16.19	17.60	17.98	15.79	17.26	16.19	17.60	17.98
	3H	17.92	19.16	18.33	19.55	19.95	17.92	19.16	18.33	19.55	19.95
	4H	18.78	19.90	19.21	20.31	20.74	18.78	19.90	19.21	20.31	20.74
	6H	19.45	20.44	19.91	20.88	21.33	19.45	20.44	19.91	20.88	21.33
	8H	19.69	20.62	20.15	21.06	21.52	19.69	20.62	20.15	21.06	21.52
	12H	19.88	20.71	20.36	21.19	21.66	19.88	20.71	20.36	21.19	21.66
8H	4H	19.12	20.04	19.58	20.48	20.95	19.12	20.04	19.58	20.48	20.95
	6H	19.93	20.70	20.42	21.18	21.66	19.93	20.70	20.42	21.18	21.66
	8H	20.25	20.94	20.76	21.45	21.93	20.25	20.94	20.76	21.45	21.93
	12H	20.53	21.14	21.03	21.63	22.18	20.53	21.14	21.03	21.63	22.18
12H	4H	19.17	20.00	19.64	20.47	20.94	19.17	20.00	19.64	20.47	20.94
	6H	20.00	20.69	20.51	21.20	21.68	20.00	20.69	20.51	21.20	21.68
	8H	20.39	21.00	20.89	21.49	22.04	20.39	21.00	20.89	21.49	22.04