

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: P866889

Luminaire Tested: PRLX-2001-L-940-32L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-940-32L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

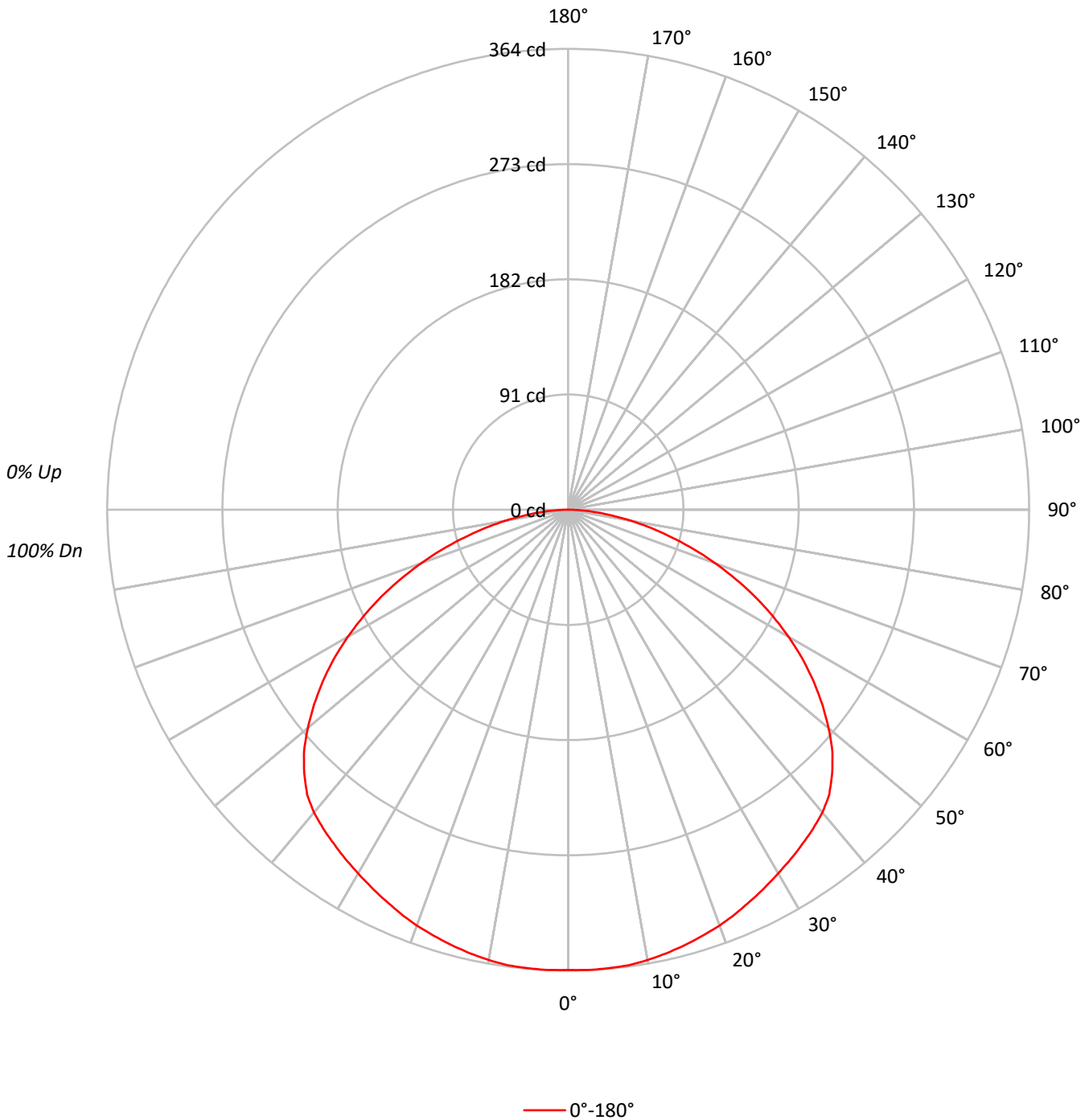
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1208.3 lumens  
Efficiency: N/A  
Efficacy: 46.3 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51  
Luminous Opening: Circular (Dia: 1.58' 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	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

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

	0°
0°	1988
5°	1995
10°	2005
15°	2015
20°	2034
25°	2056
30°	2094
35°	2152
40°	2229
45°	2278
50°	2283
55°	2254
60°	2198
65°	2106
70°	1969
75°	1789
80°	1587
85°	1292

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 2290 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.6	2.9
10°-20°	100.7	8.3
20°-30°	157.5	13.0
30°-40°	202.2	16.7
40°-50°	226.7	18.8
50°-60°	211.1	17.5
60°-70°	160.9	13.3
70°-80°	90.4	7.5
80°-90°	24.2	2.0
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°	292.8	24.2
0°-40°	495.1	41.0
0°-60°	932.8	77.2
0°-90°	1208.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1208.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	364	
5°	364	35
15°	356	101
25°	341	158
35°	322	202
45°	295	227
55°	236	211
65°	163	161
75°	85	90
85°	21	24
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	363.6
2.5°	363.9
5°	363.6
7.5°	363.0
10°	361.2
12.5°	358.8
15°	356.1
17.5°	352.8
20°	349.6
22.5°	345.4
25°	340.9
27.5°	336.4
30°	331.7
32.5°	327.2
35°	322.4
37.5°	317.6
40°	312.3
42.5°	305.1
45°	294.7
47.5°	283.0
50°	268.4
52.5°	252.9
55°	236.5
57.5°	219.5
60°	201.0
62.5°	182.2
65°	162.8
67.5°	143.2
70°	123.2
72.5°	104.1
75°	84.7
77.5°	67.1
80°	50.4
82.5°	34.3
85°	20.6
87.5°	8.9
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	15.23	16.91	15.59	17.23	17.54	15.23	16.91	15.59	17.23	17.54
	3H	17.01	18.54	17.39	18.87	19.23	17.01	18.54	17.39	18.87	19.23
	4H	17.66	19.10	18.06	19.45	19.82	17.66	19.10	18.06	19.45	19.82
	6H	18.12	19.46	18.53	19.83	20.22	18.12	19.46	18.53	19.83	20.22
	8H	18.27	19.55	18.69	19.94	20.33	18.27	19.55	18.69	19.94	20.33
	12H	18.36	19.59	18.79	19.97	20.40	18.36	19.59	18.79	19.97	20.40
4H	2H	15.87	17.31	16.27	17.66	18.03	15.87	17.31	16.27	17.66	18.03
	3H	17.87	19.08	18.28	19.48	19.88	17.87	19.08	18.28	19.48	19.88
	4H	18.64	19.73	19.07	20.15	20.58	18.64	19.73	19.07	20.15	20.58
	6H	19.23	20.19	19.68	20.63	21.08	19.23	20.19	19.68	20.63	21.08
	8H	19.42	20.32	19.88	20.76	21.22	19.42	20.32	19.88	20.76	21.22
	12H	19.55	20.36	20.03	20.83	21.30	19.55	20.36	20.03	20.83	21.30
8H	4H	18.94	19.84	19.40	20.28	20.75	18.94	19.84	19.40	20.28	20.75
	6H	19.65	20.40	20.14	20.89	21.36	19.65	20.40	20.14	20.89	21.36
	8H	19.91	20.58	20.41	21.08	21.57	19.91	20.58	20.41	21.08	21.57
	12H	20.11	20.70	20.61	21.19	21.75	20.11	20.70	20.61	21.19	21.75
12H	4H	18.98	19.79	19.46	20.26	20.73	18.98	19.79	19.46	20.26	20.73
	6H	19.70	20.38	20.21	20.88	21.37	19.70	20.38	20.21	20.88	21.37
	8H	20.01	20.61	20.52	21.10	21.66	20.01	20.61	20.52	21.10	21.66