

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: P867383

Luminaire Tested: PRLX-2004-L-940-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-L-940-133L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

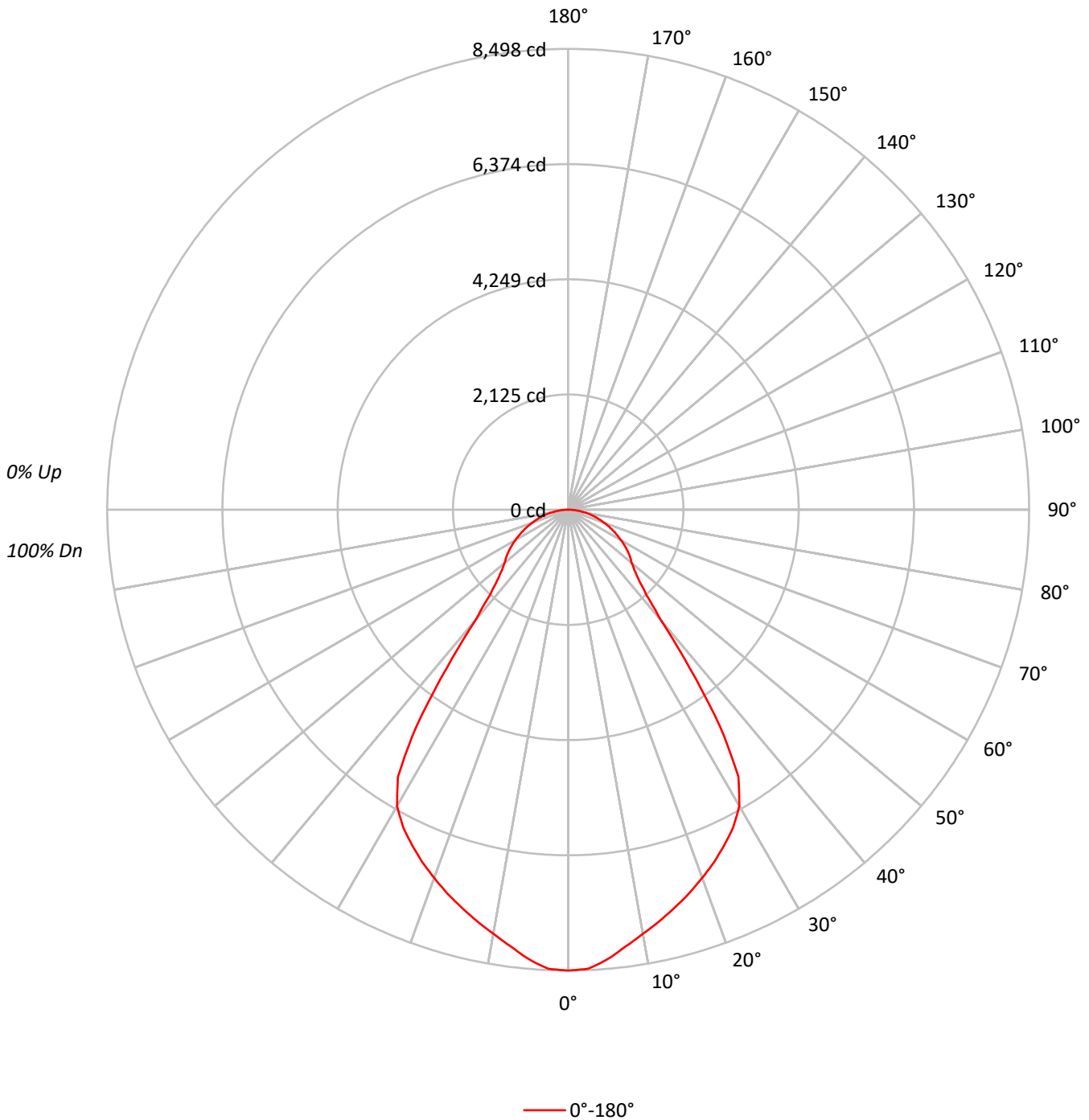
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13286.7 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 111.8  
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

TEST NUMBER: P867383

CATALOG NUMBER: PRLX-2004-L-940-133L-L-X-X-WHHR-X

### 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	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

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

	0°
0°	41930
5°	41221
10°	39791
15°	38796
20°	37933
25°	37116
30°	35944
35°	29429
40°	17089
45°	12924
50°	11744
55°	11545
60°	11133
65°	10688
70°	10264
75°	9817
80°	9402
85°	9012

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12924 cd/sqm

TEST NUMBER: P867383

CATALOG NUMBER: PRLX-2004-L-940-133L-L-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	781.7	5.9
10°-20°	2141.7	16.1
20°-30°	3136.4	23.6
30°-40°	2916.2	21.9
40°-50°	1485.7	11.2
50°-60°	1195.2	9.0
60°-70°	907.5	6.8
70°-80°	546.6	4.1
80°-90°	175.7	1.3
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°	6059.8	45.6
0°-40°	8976.0	67.6
0°-60°	11656.9	87.7
0°-90°	13286.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13286.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8498	
5°	8323	782
15°	7595	2142
25°	6818	3136
35°	4886	2916
45°	1852	1486
55°	1342	1195
65°	916	908
75°	515	547
85°	159	176
90°	0	

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CATALOG NUMBER: PRLX-2004-L-940-133L-L-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8498.5
2.5°	8473.6
5°	8323.1
7.5°	8121.6
10°	7942.4
12.5°	7772.0
15°	7595.4
17.5°	7416.3
20°	7224.7
22.5°	7030.6
25°	6817.9
27.5°	6594.0
30°	6309.2
32.5°	5840.2
35°	4886.1
37.5°	3667.1
40°	2653.3
42.5°	2133.3
45°	1852.2
47.5°	1654.4
50°	1530.0
52.5°	1440.5
55°	1342.2
57.5°	1232.7
60°	1128.2
62.5°	1020.0
65°	915.5
67.5°	812.3
70°	711.5
72.5°	613.3
75°	515.0
77.5°	422.9
80°	330.9
82.5°	245.1
85°	159.2
87.5°	75.9
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	18.96	20.31	19.32	20.63	20.94	18.96	20.31	19.32	20.63	20.94
	3H	20.76	21.97	21.14	22.30	22.67	20.76	21.97	21.14	22.30	22.67
	4H	21.47	22.60	21.87	22.95	23.33	21.47	22.60	21.87	22.95	23.33
	6H	22.03	23.07	22.44	23.44	23.84	22.03	23.07	22.44	23.44	23.84
	8H	22.23	23.22	22.66	23.61	24.02	22.23	23.22	22.66	23.61	24.02
	12H	22.37	23.32	22.80	23.71	24.14	22.37	23.32	22.80	23.71	24.14
4H	2H	19.55	20.68	19.95	21.03	21.41	19.55	20.68	19.95	21.03	21.41
	3H	21.57	22.51	21.98	22.92	23.32	21.57	22.51	21.98	22.92	23.32
	4H	22.41	23.26	22.84	23.68	24.12	22.41	23.26	22.84	23.68	24.12
	6H	23.11	23.84	23.57	24.29	24.75	23.11	23.84	23.57	24.29	24.75
	8H	23.36	24.05	23.83	24.50	24.97	23.36	24.05	23.83	24.50	24.97
	12H	23.56	24.17	24.04	24.65	25.12	23.56	24.17	24.04	24.65	25.12
8H	4H	22.71	23.40	23.18	23.85	24.32	22.71	23.40	23.18	23.85	24.32
	6H	23.56	24.12	24.06	24.62	25.10	23.56	24.12	24.06	24.62	25.10
	8H	23.90	24.41	24.42	24.92	25.41	23.90	24.41	24.42	24.92	25.41
	12H	24.20	24.64	24.71	25.14	25.70	24.20	24.64	24.71	25.14	25.70
12H	4H	22.74	23.35	23.23	23.83	24.31	22.74	23.35	23.23	23.83	24.31
	6H	23.62	24.13	24.14	24.64	25.13	23.62	24.13	24.14	24.64	25.13
	8H	24.03	24.48	24.55	24.97	25.54	24.03	24.48	24.55	24.97	25.54