

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: P867423

Luminaire Tested: PRLX-2004-L-940-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867423  
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: Prenalux  
Catalog Number: PRLX-2004-L-940-83L-L-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

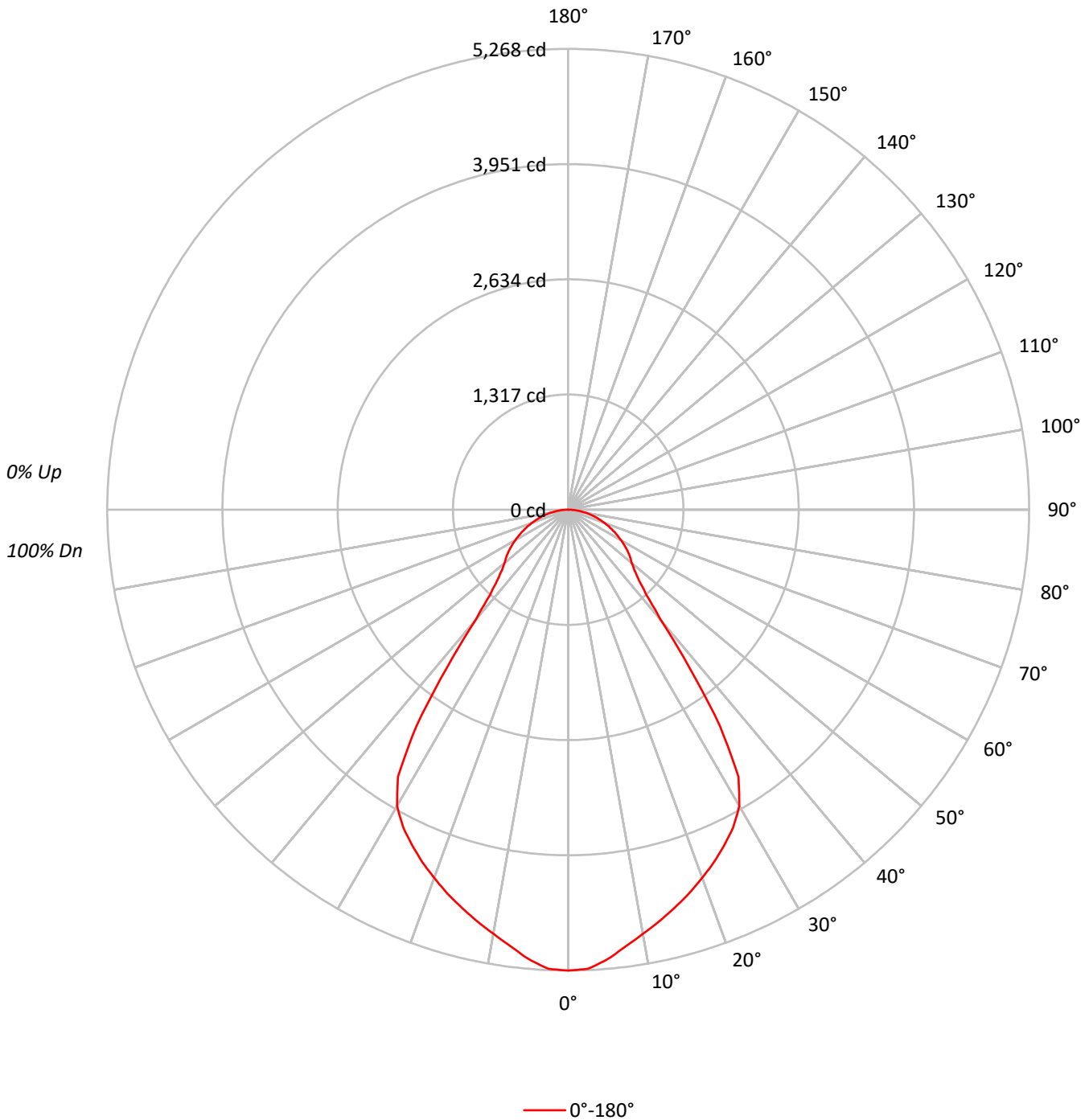
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8236.2 lumens  
Efficiency: N/A  
Efficacy: 127.7 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): 64.5  
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	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°	25992
5°	25553
10°	24666
15°	24049
20°	23514
25°	23007
30°	22281
35°	18243
40°	10593
45°	8012
50°	7280
55°	7157
60°	6901
65°	6625
70°	6363
75°	6085
80°	5827
85°	5587

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8012 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	484.5	5.9
10°-20°	1327.6	16.1
20°-30°	1944.2	23.6
30°-40°	1807.7	21.9
40°-50°	921.0	11.2
50°-60°	740.9	9.0
60°-70°	562.6	6.8
70°-80°	338.8	4.1
80°-90°	108.9	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°	3756.4	45.6
0°-40°	5564.1	67.6
0°-60°	7225.9	87.7
0°-90°	8236.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8236.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5268	
5°	5159	485
15°	4708	1328
25°	4226	1944
35°	3029	1808
45°	1148	921
55°	832	741
65°	568	563
75°	319	339
85°	99	109
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5268.1
2.5°	5252.7
5°	5159.4
7.5°	5034.4
10°	4923.4
12.5°	4817.8
15°	4708.3
17.5°	4597.2
20°	4478.5
22.5°	4358.2
25°	4226.3
27.5°	4087.5
30°	3911.0
32.5°	3620.3
35°	3028.8
37.5°	2273.2
40°	1644.7
42.5°	1322.4
45°	1148.2
47.5°	1025.5
50°	948.4
52.5°	892.9
55°	832.0
57.5°	764.1
60°	699.4
62.5°	632.3
65°	567.5
67.5°	503.5
70°	441.1
72.5°	380.1
75°	319.2
77.5°	262.2
80°	205.1
82.5°	151.9
85°	98.7
87.5°	47.0
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	17.30	18.65	17.66	18.96	19.28	17.30	18.65	17.66	18.96	19.28
	3H	19.10	20.31	19.48	20.64	21.00	19.10	20.31	19.48	20.64	21.00
	4H	19.80	20.94	20.21	21.29	21.67	19.80	20.94	20.21	21.29	21.67
	6H	20.36	21.41	20.78	21.78	22.17	20.36	21.41	20.78	21.78	22.17
	8H	20.56	21.56	20.99	21.95	22.35	20.56	21.56	20.99	21.95	22.35
	12H	20.71	21.66	21.14	22.04	22.47	20.71	21.66	21.14	22.04	22.47
4H	2H	17.88	19.02	18.29	19.37	19.75	17.88	19.02	18.29	19.37	19.75
	3H	19.91	20.85	20.32	21.25	21.66	19.91	20.85	20.32	21.25	21.66
	4H	20.75	21.60	21.18	22.01	22.46	20.75	21.60	21.18	22.01	22.46
	6H	21.44	22.18	21.91	22.63	23.09	21.44	22.18	21.91	22.63	23.09
	8H	21.70	22.39	22.17	22.83	23.30	21.70	22.39	22.17	22.83	23.30
	12H	21.90	22.51	22.38	22.99	23.46	21.90	22.51	22.38	22.99	23.46
8H	4H	21.05	21.74	21.52	22.19	22.66	21.05	21.74	21.52	22.19	22.66
	6H	21.89	22.46	22.39	22.95	23.43	21.89	22.46	22.39	22.95	23.43
	8H	22.24	22.75	22.76	23.26	23.75	22.24	22.75	22.76	23.26	23.75
	12H	22.54	22.98	23.05	23.47	24.04	22.54	22.98	23.05	23.47	24.04
12H	4H	21.08	21.69	21.56	22.17	22.65	21.08	21.69	21.56	22.17	22.65
	6H	21.96	22.46	22.48	22.98	23.47	21.96	22.46	22.48	22.98	23.47
	8H	22.37	22.81	22.88	23.31	23.88	22.37	22.81	22.88	23.31	23.88