

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: P865995

Luminaire Tested: PRLX-2001-M-930-45L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-45L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

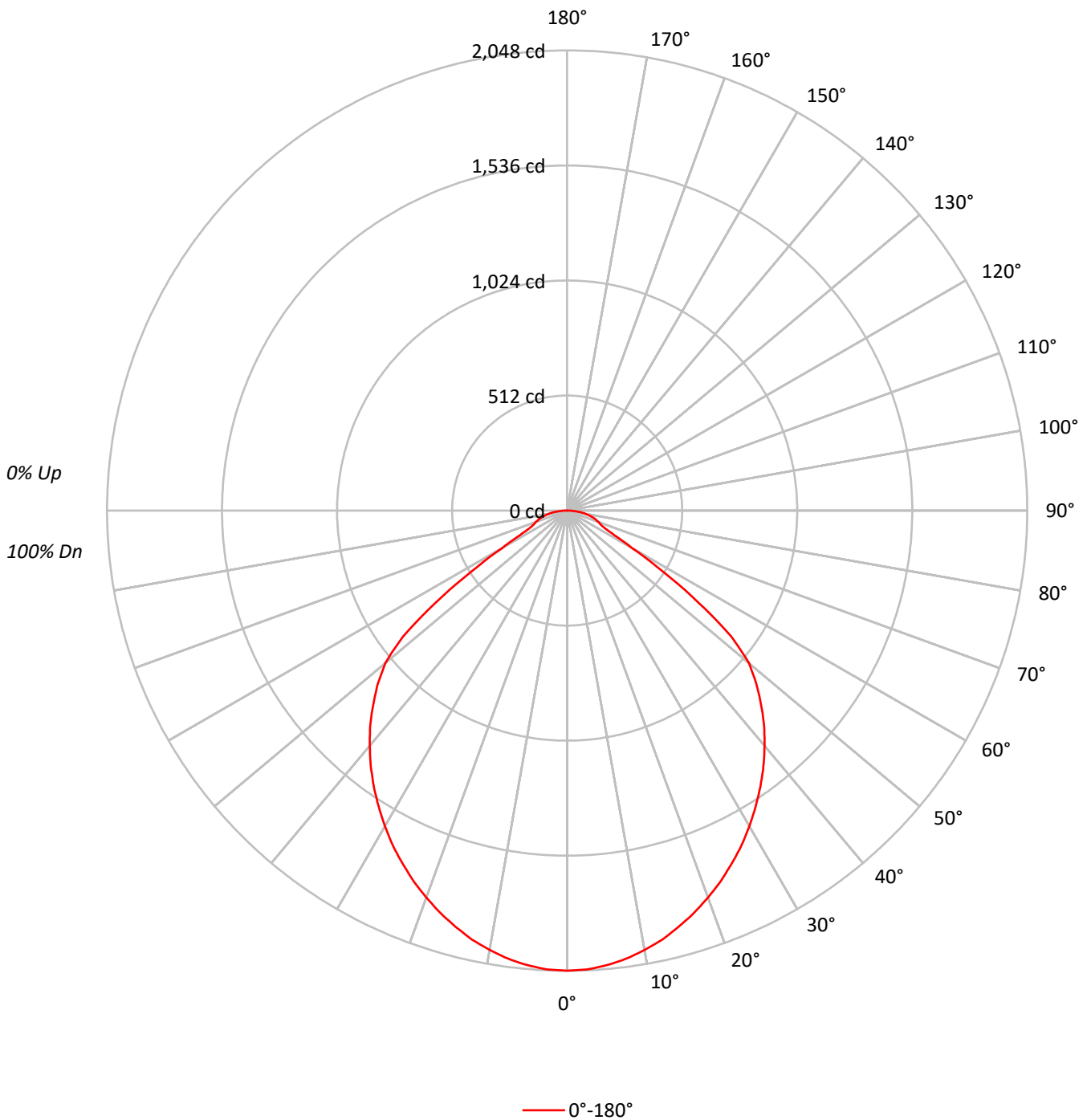
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4410.6 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.8  
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: 0.333 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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°
0°	17378
5°	17301
10°	17110
15°	16844
20°	16548
25°	16227
30°	15891
35°	15535
40°	15141
45°	14651
50°	13936
55°	10553
60°	5667
65°	3652
70°	3682
75°	3885
80°	4037
85°	4080

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14651 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.4	4.4
10°-20°	540.6	12.3
20°-30°	798.6	18.1
30°-40°	937.7	21.3
40°-50°	940.1	21.3
50°-60°	629.5	14.3
60°-70°	202.2	4.6
70°-80°	123.7	2.8
80°-90°	45.7	1.0
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°	1531.7	34.7
0°-40°	2469.4	56.0
0°-60°	4039.0	91.6
0°-90°	4410.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2048	
5°	2031	192
15°	1917	541
25°	1733	799
35°	1500	938
45°	1221	940
55°	713	630
65°	182	202
75°	118	124
85°	42	46
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2047.8
2.5°	2044.2
5°	2031.0
7.5°	2011.9
10°	1985.6
12.5°	1955.6
15°	1917.3
17.5°	1877.9
20°	1832.4
22.5°	1785.7
25°	1733.0
27.5°	1680.4
30°	1621.7
32.5°	1561.9
35°	1499.6
37.5°	1435.0
40°	1366.8
42.5°	1297.4
45°	1220.8
47.5°	1143.0
50°	1055.6
52.5°	921.6
55°	713.3
57.5°	506.3
60°	333.9
62.5°	235.8
65°	181.9
67.5°	160.4
70°	148.4
72.5°	134.0
75°	118.5
77.5°	100.5
80°	82.6
82.5°	63.4
85°	41.9
87.5°	21.5
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	18.20	19.68	18.57	19.99	20.30	18.20	19.68	18.57	19.99	20.30
	3H	18.68	19.99	19.06	20.32	20.68	18.68	19.99	19.06	20.32	20.68
	4H	19.00	20.23	19.40	20.57	20.95	19.00	20.23	19.40	20.57	20.95
	6H	19.33	20.46	19.74	20.82	21.22	19.33	20.46	19.74	20.82	21.22
	8H	19.47	20.54	19.89	20.93	21.33	19.47	20.54	19.89	20.93	21.33
	12H	19.57	20.60	20.00	20.98	21.41	19.57	20.60	20.00	20.98	21.41
4H	2H	18.24	19.46	18.64	19.81	20.19	18.24	19.46	18.64	19.81	20.19
	3H	18.94	19.95	19.36	20.35	20.75	18.94	19.95	19.36	20.35	20.75
	4H	19.42	20.31	19.85	20.73	21.17	19.42	20.31	19.85	20.73	21.17
	6H	19.92	20.69	20.38	21.14	21.60	19.92	20.69	20.38	21.14	21.60
	8H	20.12	20.85	20.59	21.30	21.77	20.12	20.85	20.59	21.30	21.77
	12H	20.30	20.95	20.78	21.43	21.90	20.30	20.95	20.78	21.43	21.90
8H	4H	19.58	20.31	20.05	20.75	21.22	19.58	20.31	20.05	20.75	21.22
	6H	20.21	20.82	20.71	21.31	21.79	20.21	20.82	20.71	21.31	21.79
	8H	20.51	21.06	21.03	21.57	22.06	20.51	21.06	21.03	21.57	22.06
	12H	20.78	21.27	21.29	21.76	22.33	20.78	21.27	21.29	21.76	22.33
12H	4H	19.60	20.25	20.08	20.73	21.20	19.60	20.25	20.08	20.73	21.20
	6H	20.26	20.81	20.77	21.32	21.81	20.26	20.81	20.77	21.32	21.81
	8H	20.62	21.11	21.13	21.60	22.17	20.62	21.11	21.13	21.60	22.17