

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: P866267

Luminaire Tested: PRLX-2002-M-930-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-930-65L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

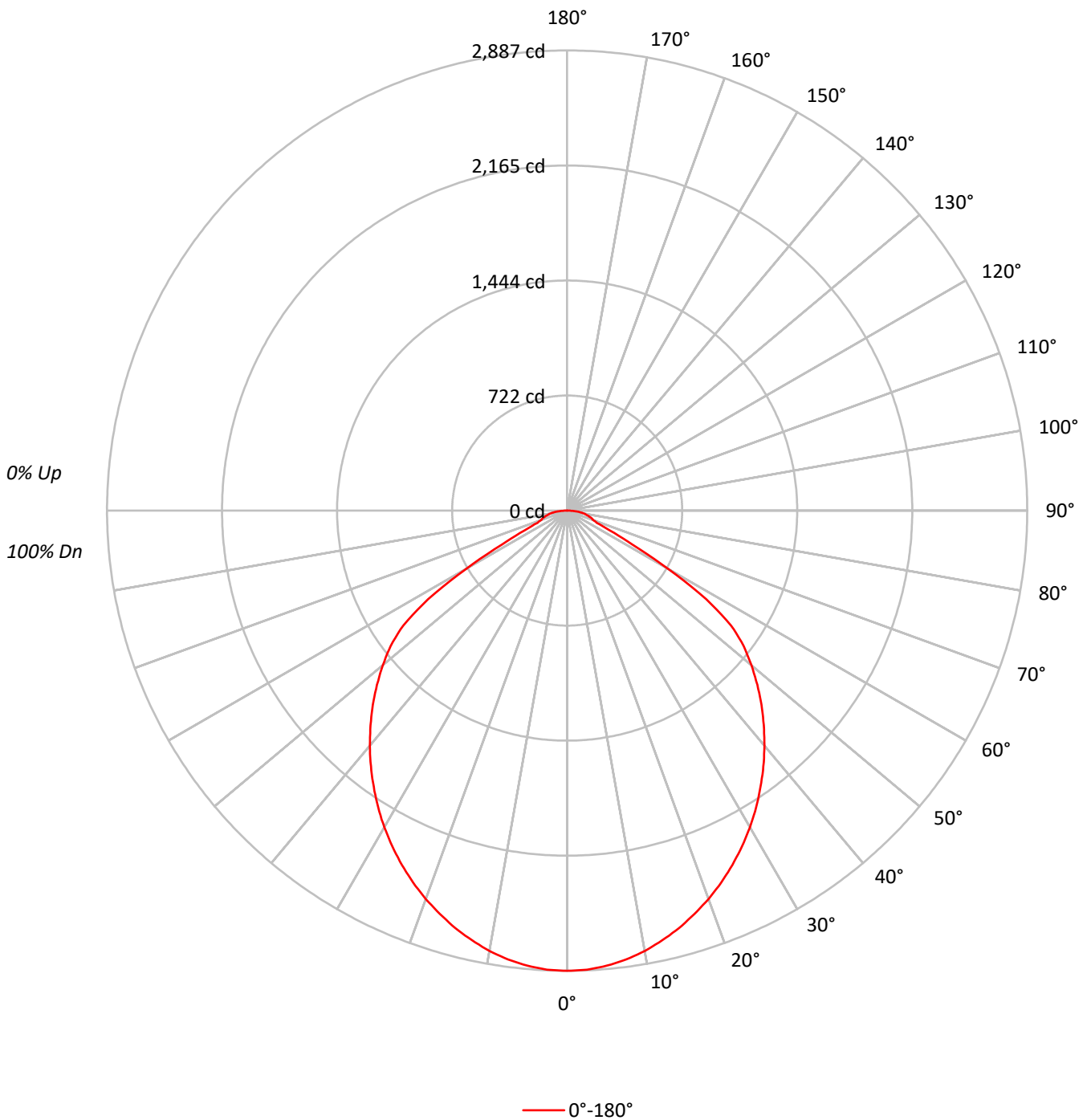
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6448.2 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.6  
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	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					100			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76					76			
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57					57			
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50					50			
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40					40			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32					32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29					29			

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

	0°
0°	22969
5°	22891
10°	22667
15°	22341
20°	21955
25°	21534
30°	21075
35°	20551
40°	20001
45°	19392
50°	18679
55°	17409
60°	11690
65°	5533
70°	4061
75°	4359
80°	4834
85°	5367

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19392 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.7	4.2
10°-20°	764.2	11.9
20°-30°	1129.7	17.5
30°-40°	1323.6	20.5
40°-50°	1328.6	20.6
50°-60°	1072.3	16.6
60°-70°	346.6	5.4
70°-80°	149.7	2.3
80°-90°	61.9	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°	2165.6	33.6
0°-40°	3489.1	54.1
0°-60°	5890.0	91.3
0°-90°	6448.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6448.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2887	
5°	2866	272
15°	2712	764
25°	2453	1130
35°	2116	1324
45°	1724	1329
55°	1255	1072
65°	294	347
75°	142	150
85°	59	62
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2887.1
2.5°	2883.6
5°	2866.3
7.5°	2840.4
10°	2805.8
12.5°	2760.9
15°	2712.5
17.5°	2653.7
20°	2593.2
22.5°	2525.7
25°	2453.1
27.5°	2375.3
30°	2294.1
32.5°	2207.7
35°	2116.0
37.5°	2022.7
40°	1925.9
42.5°	1825.6
45°	1723.6
47.5°	1618.1
50°	1509.2
52.5°	1396.9
55°	1255.1
57.5°	1035.5
60°	734.7
62.5°	459.9
65°	293.9
67.5°	202.3
70°	174.6
72.5°	160.8
75°	141.8
77.5°	124.5
80°	105.5
82.5°	84.7
85°	58.8
87.5°	31.1
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	21.62	23.12	21.99	23.44	23.75	21.62	23.12	21.99	23.44	23.75
	3H	21.73	23.06	22.11	23.39	23.75	21.73	23.06	22.11	23.39	23.75
	4H	21.82	23.06	22.22	23.41	23.79	21.82	23.06	22.22	23.41	23.79
	6H	21.93	23.08	22.35	23.45	23.84	21.93	23.08	22.35	23.45	23.84
	8H	21.99	23.08	22.42	23.47	23.87	21.99	23.08	22.42	23.47	23.87
	12H	22.04	23.08	22.47	23.46	23.89	22.04	23.08	22.47	23.46	23.89
4H	2H	21.59	22.83	21.99	23.18	23.56	21.59	22.83	21.99	23.18	23.56
	3H	21.79	22.81	22.20	23.21	23.61	21.79	22.81	22.20	23.21	23.61
	4H	21.95	22.86	22.38	23.28	23.72	21.95	22.86	22.38	23.28	23.72
	6H	22.17	22.96	22.63	23.40	23.86	22.17	22.96	22.63	23.40	23.86
	8H	22.27	23.01	22.74	23.46	23.92	22.27	23.01	22.74	23.46	23.92
	12H	22.37	23.03	22.86	23.51	23.99	22.37	23.03	22.86	23.51	23.99
8H	4H	21.96	22.70	22.43	23.15	23.62	21.96	22.70	22.43	23.15	23.62
	6H	22.26	22.88	22.76	23.37	23.85	22.26	22.88	22.76	23.37	23.85
	8H	22.43	22.99	22.95	23.50	23.99	22.43	22.99	22.95	23.50	23.99
	12H	22.61	23.10	23.12	23.60	24.16	22.61	23.10	23.12	23.60	24.16
12H	4H	21.96	22.61	22.44	23.09	23.57	21.96	22.61	22.44	23.09	23.57
	6H	22.27	22.82	22.78	23.33	23.82	22.27	22.82	22.78	23.33	23.82
	8H	22.49	22.98	23.00	23.47	24.04	22.49	22.98	23.00	23.47	24.04