

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: P866247

Luminaire Tested: PRLX-2002-M-930-45L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-930-45L-G-U-S-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

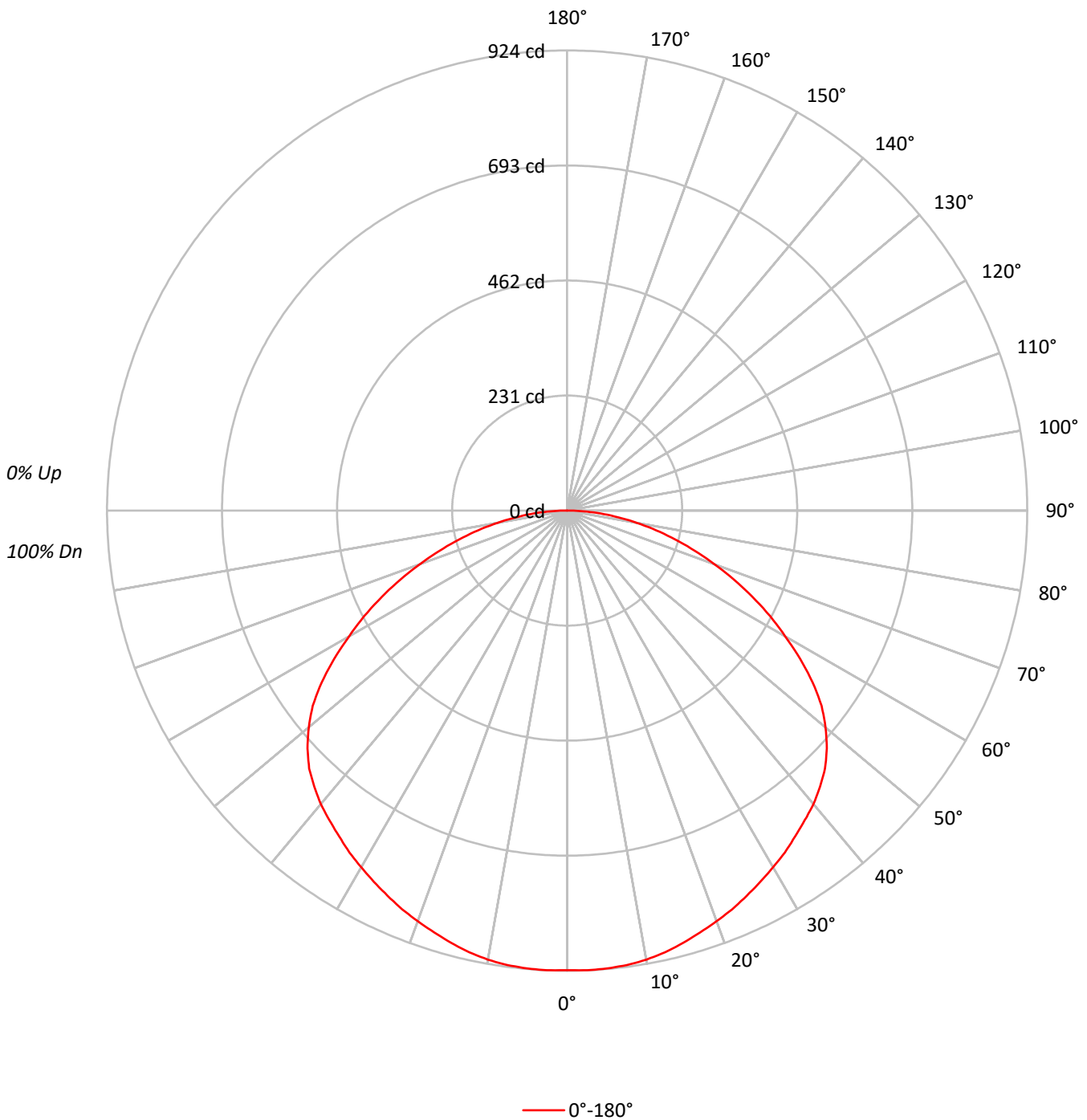
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3055.8 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5  
Luminous Opening: Circular (Dia: 1.31' 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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

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

	0°
0°	7342
5°	7370
10°	7397
15°	7403
20°	7428
25°	7491
30°	7597
35°	7753
40°	7993
45°	8241
50°	8384
55°	8350
60°	8056
65°	7728
70°	7323
75°	6916
80°	6524
85°	6116

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 8415 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.9	2.9
10°-20°	254.0	8.3
20°-30°	394.2	12.9
30°-40°	501.0	16.4
40°-50°	563.4	18.4
50°-60°	535.3	17.5
60°-70°	406.6	13.3
70°-80°	238.9	7.8
80°-90°	74.7	2.4
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°	736.0	24.1
0°-40°	1237.0	40.5
0°-60°	2335.6	76.4
0°-90°	3055.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3055.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	923	
5°	923	88
15°	899	254
25°	853	394
35°	798	501
45°	732	563
55°	602	535
65°	410	407
75°	225	239
85°	67	75
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	922.8
2.5°	924.0
5°	922.8
7.5°	920.4
10°	915.6
12.5°	908.4
15°	898.8
17.5°	888.1
20°	877.3
22.5°	866.5
25°	853.4
27.5°	840.2
30°	827.0
32.5°	813.9
35°	798.3
37.5°	783.9
40°	769.6
42.5°	751.6
45°	732.5
47.5°	707.3
50°	677.4
52.5°	643.9
55°	602.0
57.5°	555.3
60°	506.3
62.5°	459.6
65°	410.5
67.5°	362.6
70°	314.8
72.5°	269.3
75°	225.0
77.5°	183.1
80°	142.4
82.5°	102.9
85°	67.0
87.5°	33.5
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	19.74	21.44	20.11	21.75	22.07	19.74	21.44	20.11	21.75	22.07
	3H	21.54	23.08	21.92	23.41	23.76	21.54	23.08	21.92	23.41	23.76
	4H	22.24	23.69	22.63	24.03	24.41	22.24	23.69	22.63	24.03	24.41
	6H	22.79	24.13	23.20	24.50	24.89	22.79	24.13	23.20	24.50	24.89
	8H	22.98	24.27	23.40	24.66	25.05	22.98	24.27	23.40	24.66	25.05
	12H	23.12	24.36	23.55	24.74	25.17	23.12	24.36	23.55	24.74	25.17
4H	2H	20.38	21.83	20.78	22.18	22.55	20.38	21.83	20.78	22.18	22.55
	3H	22.41	23.63	22.81	24.02	24.42	22.41	23.63	22.81	24.02	24.42
	4H	23.24	24.34	23.67	24.76	25.19	23.24	24.34	23.67	24.76	25.19
	6H	23.92	24.90	24.38	25.34	25.79	23.92	24.90	24.38	25.34	25.79
	8H	24.17	25.08	24.63	25.53	25.99	24.17	25.08	24.63	25.53	25.99
	12H	24.37	25.19	24.85	25.67	26.13	24.37	25.19	24.85	25.67	26.13
8H	4H	23.57	24.49	24.03	24.93	25.39	23.57	24.49	24.03	24.93	25.39
	6H	24.40	25.16	24.89	25.65	26.12	24.40	25.16	24.89	25.65	26.12
	8H	24.73	25.42	25.24	25.92	26.40	24.73	25.42	25.24	25.92	26.40
	12H	25.02	25.63	25.52	26.11	26.67	25.02	25.63	25.52	26.11	26.67
12H	4H	23.62	24.44	24.10	24.92	25.38	23.62	24.44	24.10	24.92	25.38
	6H	24.47	25.16	24.98	25.66	26.14	24.47	25.16	24.98	25.66	26.14
	8H	24.87	25.48	25.37	25.96	26.52	24.87	25.48	25.37	25.96	26.52