

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: P866268

Luminaire Tested: PRLX-2002-M-930-75L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-930-75L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

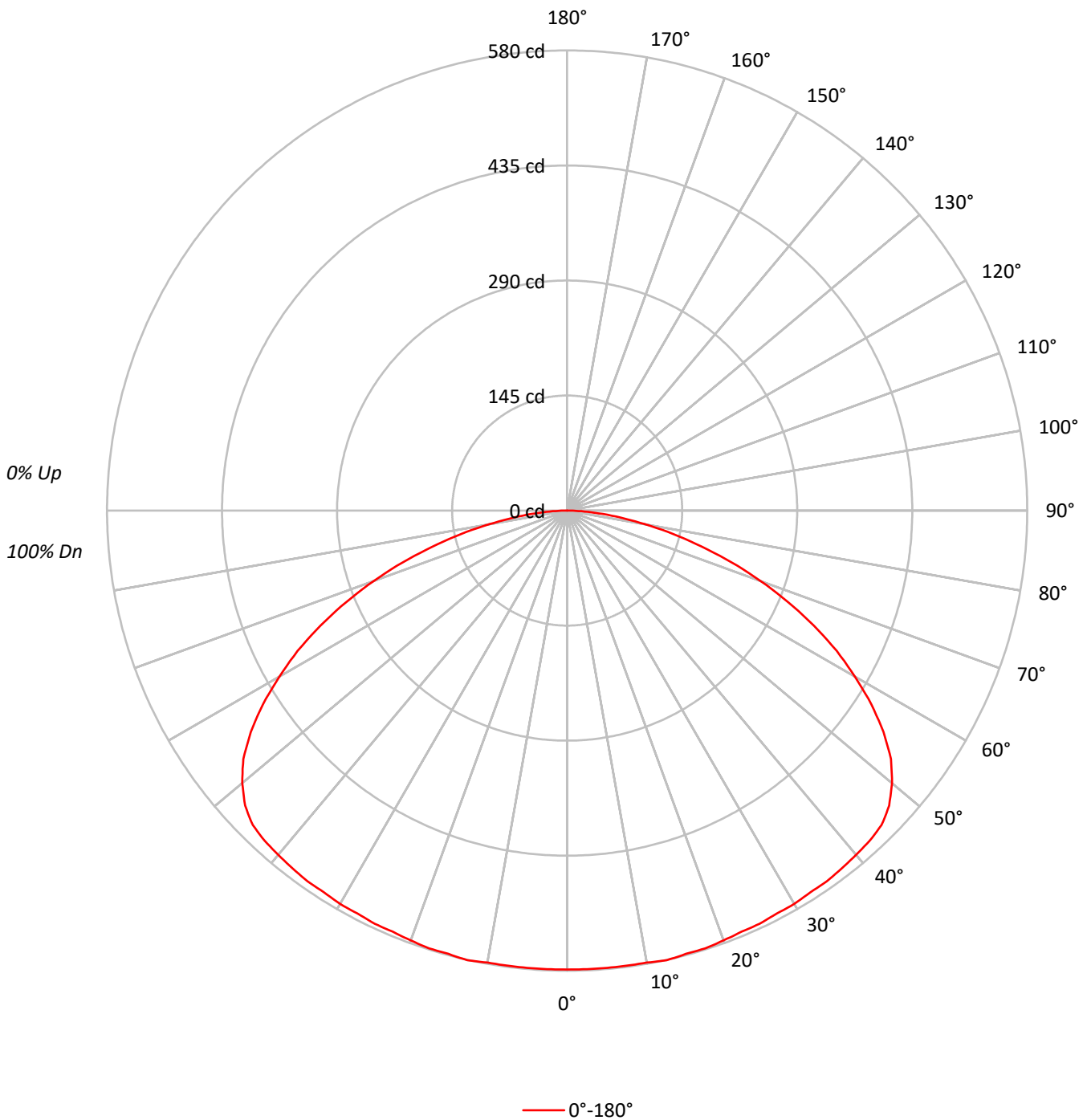
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2278.9 lumens  
Efficiency: N/A  
Efficacy: 32.7 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

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

	0°
0°	4602
5°	4620
10°	4673
15°	4765
20°	4881
25°	5043
30°	5259
35°	5541
40°	5883
45°	6306
50°	6617
55°	6751
60°	6665
65°	6459
70°	6032
75°	5395
80°	4568
85°	3642

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 6751 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.2	2.4
10°-20°	164.0	7.2
20°-30°	265.6	11.7
30°-40°	357.9	15.7
40°-50°	430.7	18.9
50°-60°	432.5	19.0
60°-70°	338.1	14.8
70°-80°	187.2	8.2
80°-90°	47.8	2.1
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°	484.9	21.3
0°-40°	842.7	37.0
0°-60°	1705.9	74.9
0°-90°	2278.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	578	
5°	578	55
15°	578	164
25°	574	266
35°	570	358
45°	560	431
55°	487	433
65°	343	338
75°	176	187
85°	40	48
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	578.5
2.5°	578.5
5°	578.5
7.5°	578.5
10°	578.5
12.5°	580.5
15°	578.5
17.5°	578.5
20°	576.5
22.5°	574.5
25°	574.5
27.5°	572.5
30°	572.5
32.5°	570.5
35°	570.5
37.5°	568.5
40°	566.5
42.5°	564.5
45°	560.5
47.5°	550.5
50°	534.6
52.5°	514.6
55°	486.7
57.5°	454.8
60°	418.9
62.5°	383.0
65°	343.1
67.5°	301.2
70°	259.3
72.5°	217.4
75°	175.5
77.5°	137.6
80°	99.7
82.5°	67.8
85°	39.9
87.5°	18.0
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	19.33	21.06	19.69	21.38	21.69	19.33	21.06	19.69	21.38	21.69
	3H	21.16	22.74	21.54	23.06	23.42	21.16	22.74	21.54	23.06	23.42
	4H	21.80	23.29	22.20	23.64	24.01	21.80	23.29	22.20	23.64	24.01
	6H	22.25	23.63	22.66	23.99	24.38	22.25	23.63	22.66	23.99	24.38
	8H	22.38	23.70	22.80	24.09	24.48	22.38	23.70	22.80	24.09	24.48
	12H	22.46	23.73	22.89	24.11	24.54	22.46	23.73	22.89	24.11	24.54
4H	2H	20.00	21.49	20.40	21.84	22.21	20.00	21.49	20.40	21.84	22.21
	3H	22.04	23.29	22.45	23.69	24.09	22.04	23.29	22.45	23.69	24.09
	4H	22.80	23.94	23.23	24.35	24.78	22.80	23.94	23.23	24.35	24.78
	6H	23.36	24.36	23.81	24.80	25.25	23.36	24.36	23.81	24.80	25.25
	8H	23.53	24.46	23.99	24.91	25.37	23.53	24.46	23.99	24.91	25.37
	12H	23.65	24.49	24.13	24.97	25.43	23.65	24.49	24.13	24.97	25.43
8H	4H	23.11	24.04	23.56	24.48	24.94	23.11	24.04	23.56	24.48	24.94
	6H	23.77	24.55	24.26	25.04	25.51	23.77	24.55	24.26	25.04	25.51
	8H	24.01	24.70	24.51	25.21	25.69	24.01	24.70	24.51	25.21	25.69
	12H	24.19	24.81	24.69	25.29	25.85	24.19	24.81	24.69	25.29	25.85
12H	4H	23.14	23.98	23.62	24.46	24.92	23.14	23.98	23.62	24.46	24.92
	6H	23.82	24.52	24.33	25.02	25.51	23.82	24.52	24.33	25.02	25.51
	8H	24.11	24.73	24.61	25.21	25.77	24.11	24.73	24.61	25.21	25.77