

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: P866307

Luminaire Tested: PRLX-2002-M-935-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866307  
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-935-35L-L-U-S-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

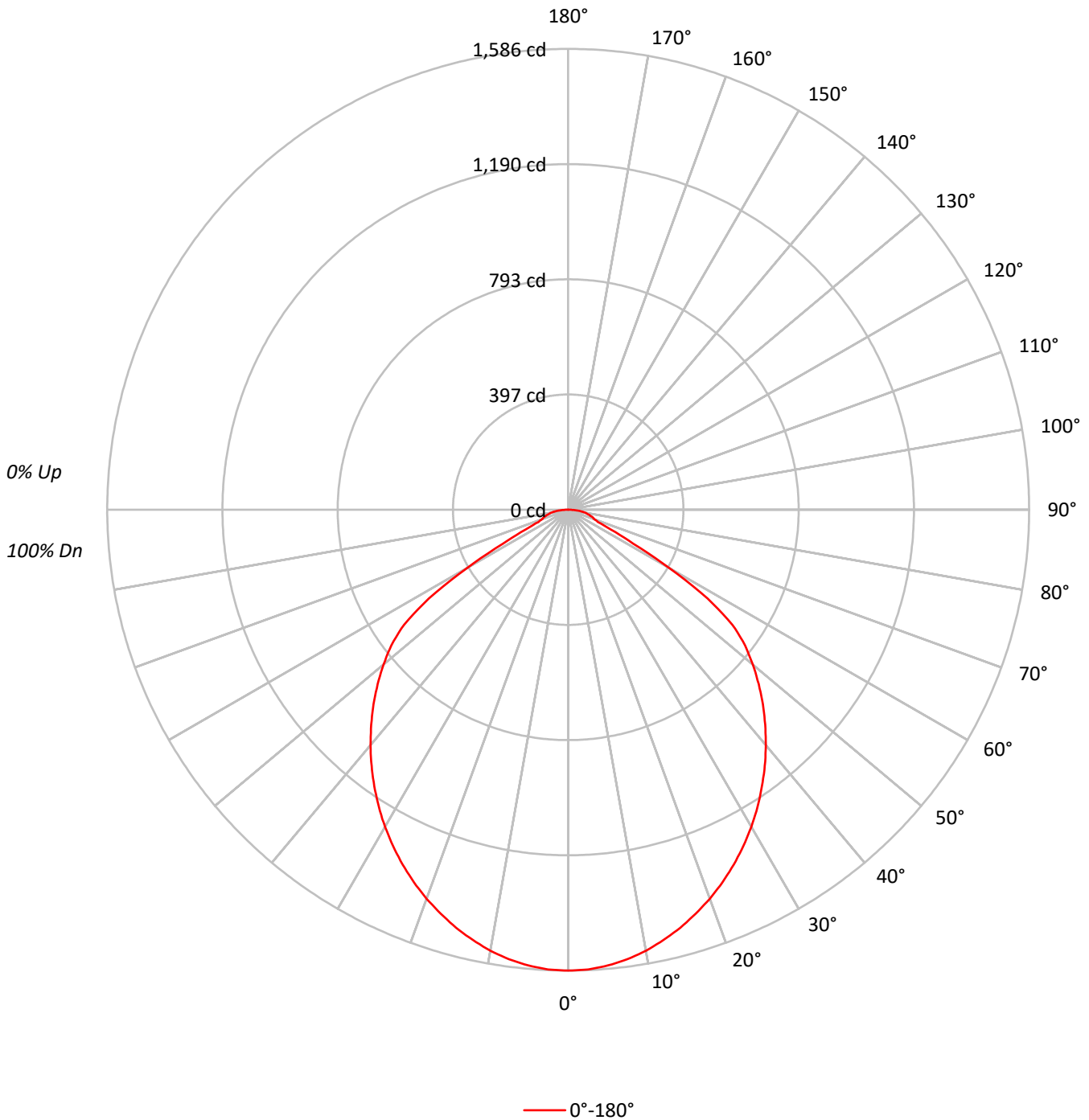
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3542.4 lumens  
Efficiency: N/A  
Efficacy: 118.1 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): 30  
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	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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

	0°
0°	12619
5°	12576
10°	12452
15°	12273
20°	12061
25°	11830
30°	11578
35°	11290
40°	10988
45°	10654
50°	10262
55°	9564
60°	6422
65°	3040
70°	2231
75°	2395
80°	2653
85°	2948

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10654 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.3	4.2
10°-20°	419.8	11.9
20°-30°	620.6	17.5
30°-40°	727.1	20.5
40°-50°	729.9	20.6
50°-60°	589.1	16.6
60°-70°	190.4	5.4
70°-80°	82.2	2.3
80°-90°	34.0	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°	1189.7	33.6
0°-40°	1916.8	54.1
0°-60°	3235.8	91.3
0°-90°	3542.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3542.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1586	
5°	1575	149
15°	1490	420
25°	1348	621
35°	1162	727
45°	947	730
55°	690	589
65°	162	190
75°	78	82
85°	32	34
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1586.1
2.5°	1584.2
5°	1574.7
7.5°	1560.4
10°	1541.4
12.5°	1516.7
15°	1490.1
17.5°	1457.9
20°	1424.6
22.5°	1387.6
25°	1347.7
27.5°	1304.9
30°	1260.3
32.5°	1212.8
35°	1162.5
37.5°	1111.2
40°	1058.0
42.5°	1002.9
45°	946.9
47.5°	889.0
50°	829.1
52.5°	767.4
55°	689.5
57.5°	568.9
60°	403.6
62.5°	252.6
65°	161.5
67.5°	111.1
70°	95.9
72.5°	88.3
75°	77.9
77.5°	68.4
80°	57.9
82.5°	46.5
85°	32.3
87.5°	17.1
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	19.54	21.04	19.91	21.36	21.67	19.54	21.04	19.91	21.36	21.67
	3H	19.65	20.98	20.03	21.31	21.67	19.65	20.98	20.03	21.31	21.67
	4H	19.74	20.98	20.14	21.33	21.71	19.74	20.98	20.14	21.33	21.71
	6H	19.85	21.00	20.27	21.37	21.76	19.85	21.00	20.27	21.37	21.76
	8H	19.91	21.00	20.34	21.39	21.79	19.91	21.00	20.34	21.39	21.79
	12H	19.96	21.00	20.39	21.38	21.81	19.96	21.00	20.39	21.38	21.81
4H	2H	19.51	20.75	19.91	21.10	21.48	19.51	20.75	19.91	21.10	21.48
	3H	19.71	20.73	20.12	21.13	21.53	19.71	20.73	20.12	21.13	21.53
	4H	19.87	20.78	20.30	21.19	21.63	19.87	20.78	20.30	21.19	21.63
	6H	20.09	20.88	20.55	21.32	21.78	20.09	20.88	20.55	21.32	21.78
	8H	20.19	20.93	20.66	21.37	21.84	20.19	20.93	20.66	21.37	21.84
	12H	20.29	20.95	20.78	21.43	21.90	20.29	20.95	20.78	21.43	21.90
8H	4H	19.88	20.62	20.35	21.07	21.54	19.88	20.62	20.35	21.07	21.54
	6H	20.18	20.80	20.68	21.29	21.77	20.18	20.80	20.68	21.29	21.77
	8H	20.35	20.90	20.87	21.42	21.90	20.35	20.90	20.87	21.42	21.90
	12H	20.53	21.02	21.04	21.52	22.08	20.53	21.02	21.04	21.52	22.08
12H	4H	19.87	20.53	20.36	21.01	21.48	19.87	20.53	20.36	21.01	21.48
	6H	20.19	20.74	20.70	21.25	21.74	20.19	20.74	20.70	21.25	21.74
	8H	20.40	20.90	20.91	21.39	21.96	20.40	20.90	20.91	21.39	21.96