

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: P865435

Luminaire Tested: PRLX-2001-S-927-15L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-927-15L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

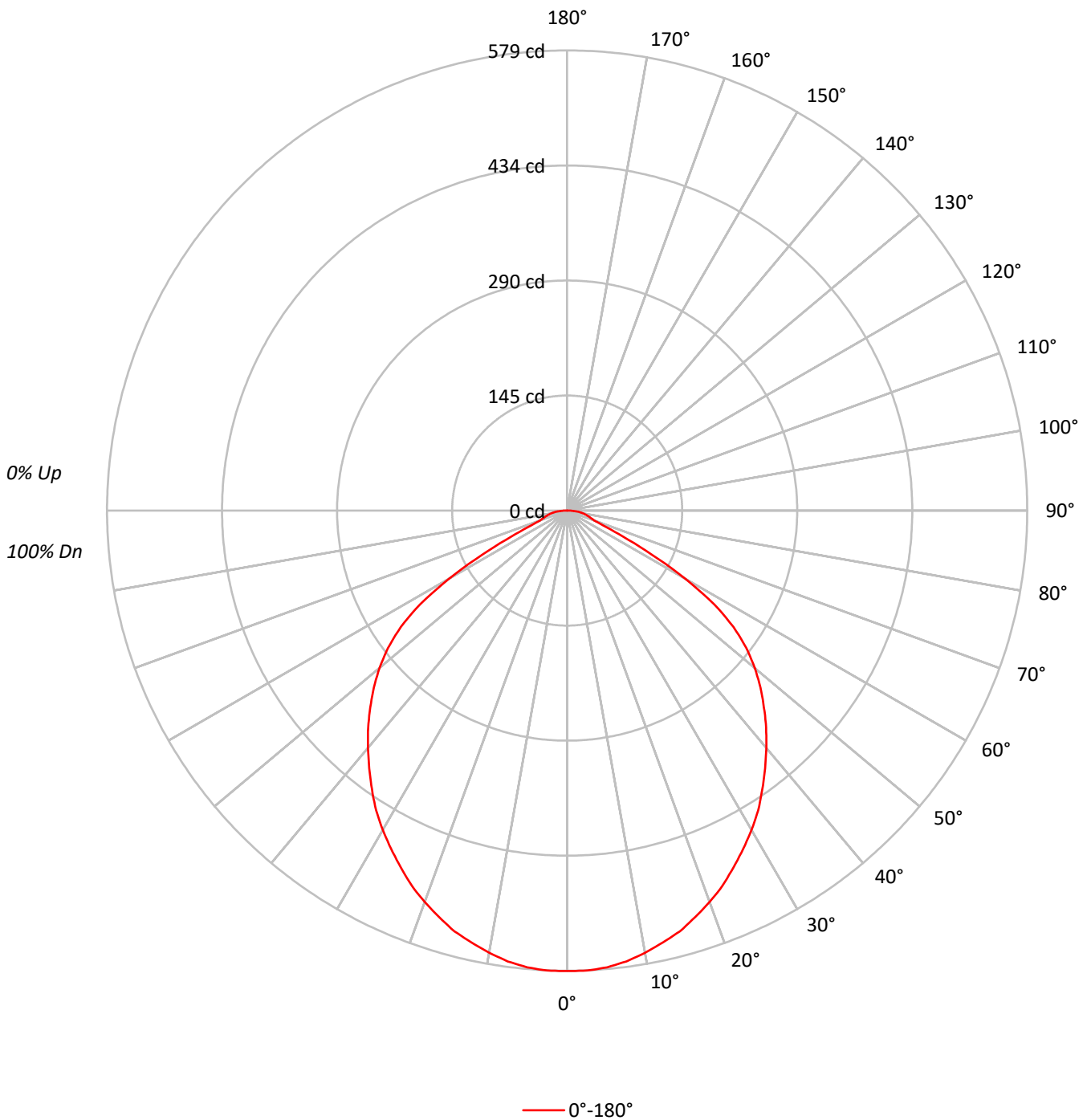
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1325.6 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.6  
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: 0.5 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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

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

	0°
0°	9448
5°	9445
10°	9356
15°	9255
20°	9097
25°	8914
30°	8741
35°	8526
40°	8299
45°	8078
50°	7820
55°	7265
60°	5594
65°	2964
70°	1717
75°	1739
80°	1916
85°	2246

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8078 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	4.1
10°-20°	154.3	11.6
20°-30°	228.3	17.2
30°-40°	267.9	20.2
40°-50°	270.1	20.4
50°-60°	222.9	16.8
60°-70°	85.9	6.5
70°-80°	29.3	2.2
80°-90°	12.2	0.9
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°	437.2	33.0
0°-40°	705.1	53.2
0°-60°	1198.2	90.4
0°-90°	1325.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1325.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	579	
5°	577	55
15°	548	154
25°	495	228
35°	428	268
45°	350	270
55°	256	223
65°	77	86
75°	28	29
85°	12	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	579.3
2.5°	579.3
5°	576.9
7.5°	572.1
10°	564.9
12.5°	556.5
15°	548.1
17.5°	536.1
20°	524.1
22.5°	510.9
25°	495.3
27.5°	479.7
30°	464.1
32.5°	447.4
35°	428.2
37.5°	409.0
40°	389.8
42.5°	370.6
45°	350.2
47.5°	329.8
50°	308.2
52.5°	284.2
55°	255.5
57.5°	219.5
60°	171.5
62.5°	119.9
65°	76.8
67.5°	49.2
70°	36.0
72.5°	31.2
75°	27.6
77.5°	24.0
80°	20.4
82.5°	16.8
85°	12.0
87.5°	6.0
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	18.86	20.37	19.22	20.68	21.00	18.86	20.37	19.22	20.68	21.00
	3H	19.00	20.34	19.38	20.67	21.03	19.00	20.34	19.38	20.67	21.03
	4H	19.06	20.32	19.46	20.67	21.04	19.06	20.32	19.46	20.67	21.04
	6H	19.14	20.30	19.55	20.67	21.06	19.14	20.30	19.55	20.67	21.06
	8H	19.19	20.29	19.61	20.68	21.08	19.19	20.29	19.61	20.68	21.08
	12H	19.23	20.28	19.66	20.66	21.09	19.23	20.28	19.66	20.66	21.09
4H	2H	18.89	20.15	19.29	20.50	20.88	18.89	20.15	19.29	20.50	20.88
	3H	19.11	20.14	19.52	20.54	20.94	19.11	20.14	19.52	20.54	20.94
	4H	19.23	20.15	19.66	20.57	21.01	19.23	20.15	19.66	20.57	21.01
	6H	19.40	20.20	19.86	20.64	21.10	19.40	20.20	19.86	20.64	21.10
	8H	19.48	20.23	19.95	20.67	21.14	19.48	20.23	19.95	20.67	21.14
	12H	19.57	20.24	20.05	20.72	21.19	19.57	20.24	20.05	20.72	21.19
8H	4H	19.22	19.97	19.69	20.42	20.88	19.22	19.97	19.69	20.42	20.88
	6H	19.46	20.08	19.96	20.57	21.05	19.46	20.08	19.96	20.57	21.05
	8H	19.60	20.16	20.11	20.67	21.16	19.60	20.16	20.11	20.67	21.16
	12H	19.76	20.26	20.27	20.75	21.32	19.76	20.26	20.27	20.75	21.32
12H	4H	19.21	19.88	19.70	20.36	20.83	19.21	19.88	19.70	20.36	20.83
	6H	19.46	20.01	19.97	20.53	21.01	19.46	20.01	19.97	20.53	21.01
	8H	19.64	20.14	20.15	20.64	21.20	19.64	20.14	20.15	20.64	21.20