

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: P865608

Luminaire Tested: PRLX-2002-S-927-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-927-25L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

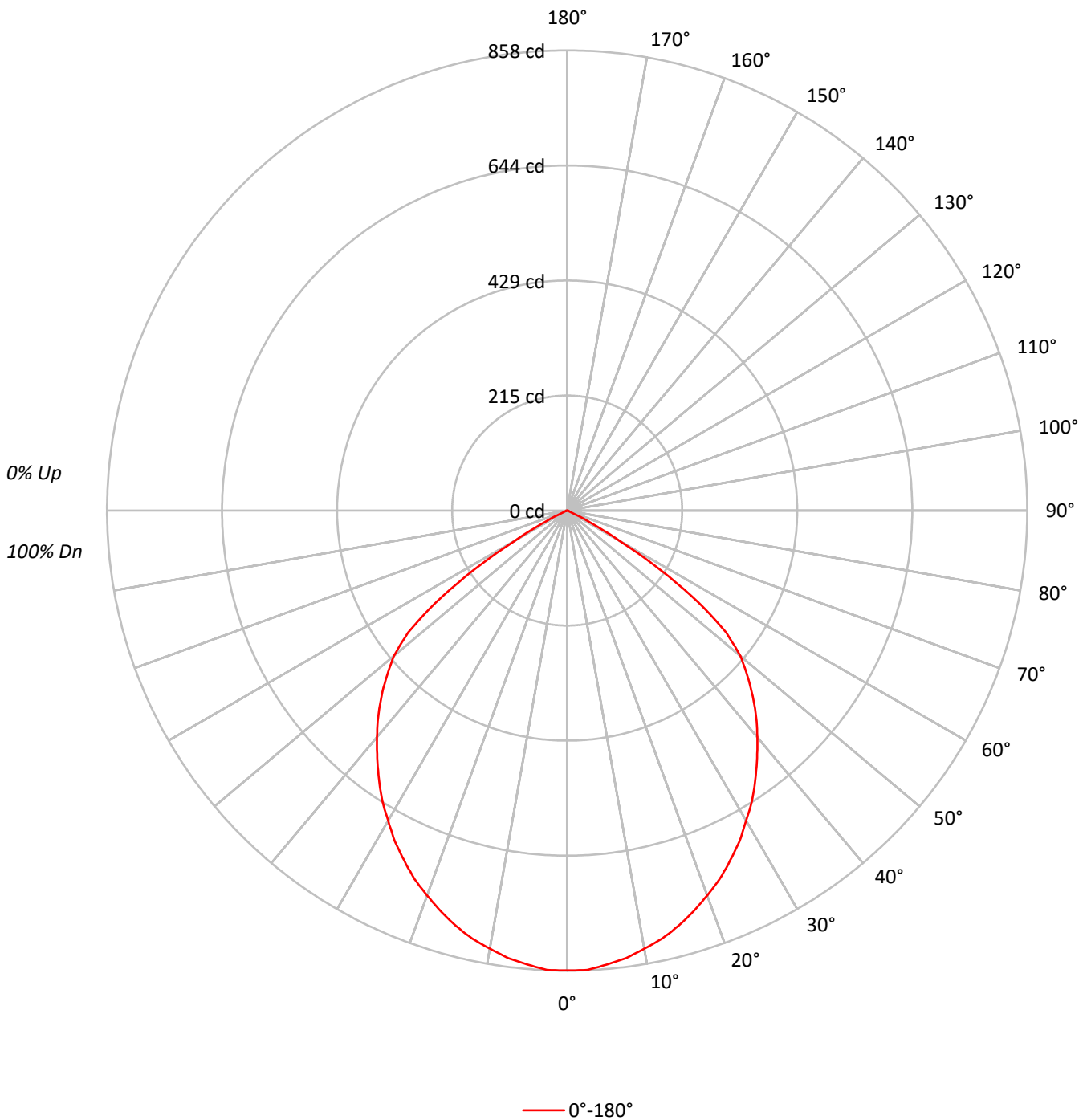
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1689.2 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (Ain): 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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

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

	0°
0°	16108
5°	16018
10°	15824
15°	15589
20°	15264
25°	14915
30°	14480
35°	14027
40°	13528
45°	13009
50°	12326
55°	9818
60°	4279
65°	889
70°	110
75°	145
80°	216
85°	431

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13009 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.5	4.8
10°-20°	225.8	13.4
20°-30°	331.3	19.6
30°-40°	382.5	22.6
40°-50°	376.9	22.3
50°-60°	255.1	15.1
60°-70°	33.1	2.0
70°-80°	2.1	0.1
80°-90°	1.9	0.1
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°	637.6	37.7
0°-40°	1020.1	60.4
0°-60°	1652.1	97.8
0°-90°	1689.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1689.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	858	
5°	850	81
15°	802	226
25°	720	331
35°	612	383
45°	490	377
55°	300	255
65°	20	33
75°	2	2
85°	2	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	857.5
2.5°	857.5
5°	849.5
7.5°	841.5
10°	829.6
12.5°	817.6
15°	801.6
17.5°	783.6
20°	763.6
22.5°	743.6
25°	719.6
27.5°	695.6
30°	667.6
32.5°	641.7
35°	611.7
37.5°	581.7
40°	551.7
42.5°	521.7
45°	489.7
47.5°	455.8
50°	421.8
52.5°	373.8
55°	299.8
57.5°	207.9
60°	113.9
62.5°	54.0
65°	20.0
67.5°	4.0
70°	2.0
72.5°	2.0
75°	2.0
77.5°	2.0
80°	2.0
82.5°	2.0
85°	2.0
87.5°	2.0
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	18.14	19.55	18.51	19.86	20.17	18.14	19.55	18.51	19.86	20.17
	3H	18.02	19.25	18.40	19.58	19.95	18.02	19.25	18.40	19.58	19.95
	4H	17.96	19.10	18.36	19.45	19.83	17.96	19.10	18.36	19.45	19.83
	6H	17.89	18.93	18.30	19.30	19.69	17.89	18.93	18.30	19.30	19.69
	8H	17.85	18.84	18.27	19.23	19.63	17.85	18.84	18.27	19.23	19.63
	12H	17.81	18.76	18.24	19.14	19.57	17.81	18.76	18.24	19.14	19.57
4H	2H	17.98	19.12	18.38	19.47	19.85	17.98	19.12	18.38	19.47	19.85
	3H	17.86	18.78	18.27	19.18	19.58	17.86	18.78	18.27	19.18	19.58
	4H	17.78	18.59	18.21	19.01	19.45	17.78	18.59	18.21	19.01	19.45
	6H	17.70	18.40	18.17	18.85	19.32	17.70	18.40	18.17	18.85	19.32
	8H	17.65	18.30	18.12	18.75	19.22	17.65	18.30	18.12	18.75	19.22
	12H	17.61	18.19	18.09	18.67	19.14	17.61	18.19	18.09	18.67	19.14
8H	4H	17.64	18.30	18.11	18.75	19.22	17.64	18.30	18.11	18.75	19.22
	6H	17.54	18.08	18.04	18.58	19.06	17.54	18.08	18.04	18.58	19.06
	8H	17.48	17.97	18.00	18.49	18.98	17.48	17.97	18.00	18.49	18.98
	12H	17.44	17.88	17.95	18.37	18.94	17.44	17.88	17.95	18.37	18.94
12H	4H	17.60	18.18	18.08	18.66	19.14	17.60	18.18	18.08	18.66	19.14
	6H	17.48	17.97	18.00	18.48	18.97	17.48	17.97	18.00	18.48	18.97
	8H	17.43	17.87	17.94	18.37	18.94	17.43	17.87	17.94	18.37	18.94