

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: P866928

Luminaire Tested: PRLX-2002-L-927-117L-G-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-927-117L-G-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

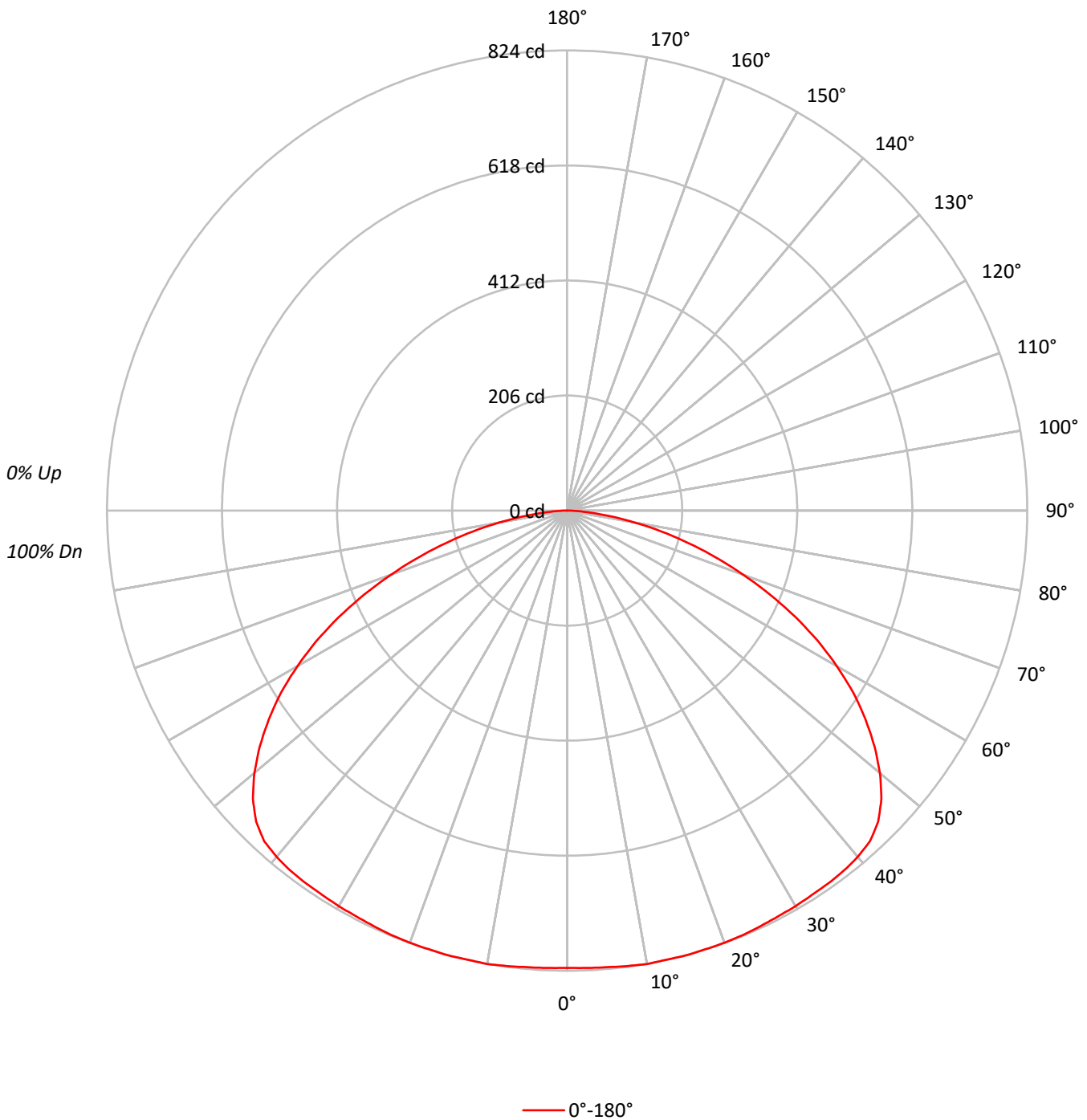
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3125.3 lumens  
Efficiency: N/A  
Efficacy: 32.8 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

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

	0°
0°	4040
5°	4065
10°	4131
15°	4211
20°	4324
25°	4468
30°	4660
35°	4909
40°	5213
45°	5497
50°	5613
55°	5611
60°	5507
65°	5263
70°	4834
75°	4289
80°	3503
85°	2344

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 5622 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.5	2.5
10°-20°	233.6	7.5
20°-30°	379.8	12.2
30°-40°	511.6	16.4
40°-50°	604.1	19.3
50°-60°	581.4	18.6
60°-70°	444.6	14.2
70°-80°	238.8	7.6
80°-90°	53.1	1.7
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°	691.8	22.1
0°-40°	1203.4	38.5
0°-60°	2388.9	76.4
0°-90°	3125.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	819	
5°	821	78
15°	824	234
25°	821	380
35°	815	512
45°	788	604
55°	652	581
65°	451	445
75°	225	239
85°	41	53
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	818.9
2.5°	819.8
5°	820.7
7.5°	822.6
10°	824.5
12.5°	823.6
15°	824.5
17.5°	823.6
20°	823.6
22.5°	822.6
25°	820.7
27.5°	818.9
30°	817.9
32.5°	816.0
35°	815.1
37.5°	813.2
40°	809.4
42.5°	802.9
45°	787.8
47.5°	763.3
50°	731.3
52.5°	693.7
55°	652.3
57.5°	608.0
60°	558.1
62.5°	506.4
65°	450.8
67.5°	393.4
70°	335.1
72.5°	279.5
75°	225.0
77.5°	172.2
80°	123.3
82.5°	78.1
85°	41.4
87.5°	14.1
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	18.61	20.33	18.98	20.64	20.96	18.61	20.33	18.98	20.64	20.96
	3H	20.37	21.92	20.74	22.25	22.61	20.37	21.92	20.74	22.25	22.61
	4H	20.97	22.44	21.37	22.79	23.16	20.97	22.44	21.37	22.79	23.16
	6H	21.37	22.73	21.78	23.09	23.48	21.37	22.73	21.78	23.09	23.48
	8H	21.47	22.77	21.89	23.16	23.56	21.47	22.77	21.89	23.16	23.56
	12H	21.52	22.77	21.95	23.15	23.58	21.52	22.77	21.95	23.15	23.58
4H	2H	19.26	20.73	19.66	21.07	21.45	19.26	20.73	19.66	21.07	21.45
	3H	21.22	22.45	21.63	22.84	23.24	21.22	22.45	21.63	22.84	23.24
	4H	21.94	23.05	22.37	23.47	23.90	21.94	23.05	22.37	23.47	23.90
	6H	22.45	23.42	22.90	23.86	24.31	22.45	23.42	22.90	23.86	24.31
	8H	22.58	23.49	23.04	23.94	24.40	22.58	23.49	23.04	23.94	24.40
	12H	22.66	23.48	23.14	23.96	24.43	22.66	23.48	23.14	23.96	24.43
8H	4H	22.22	23.14	22.68	23.58	24.04	22.22	23.14	22.68	23.58	24.04
	6H	22.82	23.58	23.32	24.07	24.54	22.82	23.58	23.32	24.07	24.54
	8H	23.01	23.69	23.52	24.20	24.68	23.01	23.69	23.52	24.20	24.68
	12H	23.14	23.74	23.64	24.23	24.79	23.14	23.74	23.64	24.23	24.79
12H	4H	22.25	23.07	22.73	23.55	24.01	22.25	23.07	22.73	23.55	24.01
	6H	22.86	23.54	23.37	24.05	24.53	22.86	23.54	23.37	24.05	24.53
	8H	23.09	23.69	23.60	24.18	24.74	23.09	23.69	23.60	24.18	24.74