

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: P865478

Luminaire Tested: PRLX-2001-S-930-20L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-930-20L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

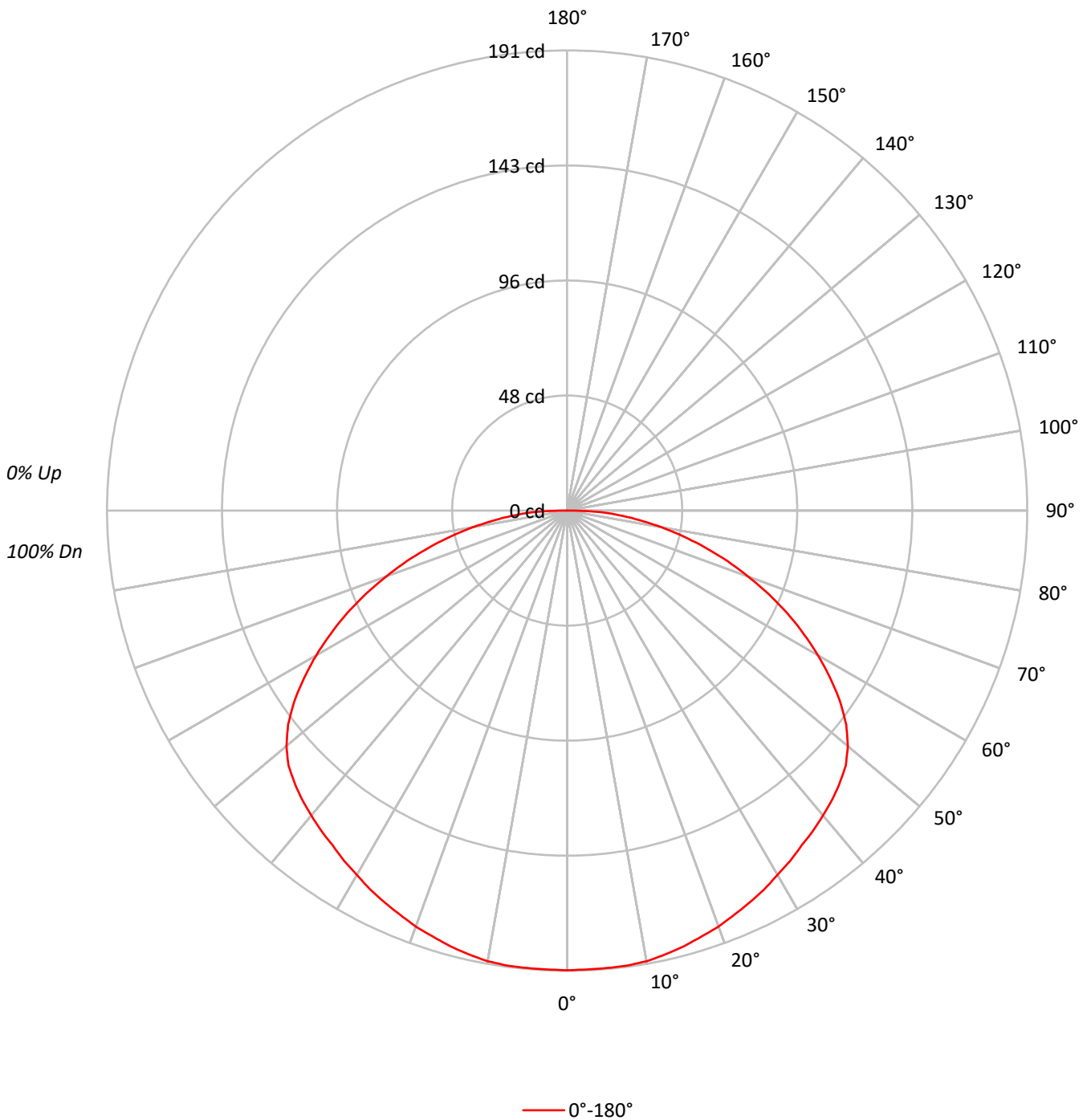
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 692.7 lumens  
Efficiency: N/A  
Efficacy: 31.8 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
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	107	102	97	93	105	100	95	91	95	92	88		91	88	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59		69	63	58		66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49		60	54	48		58	52	48	45
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	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

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

	0°
0°	3112
5°	3121
10°	3145
15°	3161
20°	3188
25°	3229
30°	3288
35°	3379
40°	3517
45°	3691
50°	3859
55°	3933
60°	3924
65°	3890
70°	3805
75°	3737
80°	3719
85°	4042

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 5235 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.2	2.6
10°-20°	52.9	7.6
20°-30°	82.9	12.0
30°-40°	106.6	15.4
40°-50°	123.4	17.8
50°-60°	123.1	17.8
60°-70°	99.5	14.4
70°-80°	62.8	9.1
80°-90°	23.3	3.4
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°	154.0	22.2
0°-40°	260.6	37.6
0°-60°	507.1	73.2
0°-90°	692.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	692.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	191	
5°	191	18
15°	187	53
25°	179	83
35°	170	107
45°	160	123
55°	138	123
65°	101	99
75°	59	63
85°	22	23
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	190.8
2.5°	190.6
5°	190.6
7.5°	190.5
10°	189.9
12.5°	188.7
15°	187.2
17.5°	185.4
20°	183.7
22.5°	181.5
25°	179.4
27.5°	177.2
30°	174.6
32.5°	172.3
35°	169.7
37.5°	167.6
40°	165.2
42.5°	162.8
45°	160.0
47.5°	156.8
50°	152.1
52.5°	146.0
55°	138.3
57.5°	129.6
60°	120.3
62.5°	110.6
65°	100.8
67.5°	90.4
70°	79.8
72.5°	69.7
75°	59.3
77.5°	49.3
80°	39.6
82.5°	30.2
85°	21.6
87.5°	14.0
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	17.24	18.98	17.61	19.29	19.60	17.24	18.98	17.61	19.29	19.60
	3H	19.26	20.84	19.63	21.16	21.52	19.26	20.84	19.63	21.16	21.52
	4H	20.07	21.57	20.47	21.91	22.29	20.07	21.57	20.47	21.91	22.29
	6H	20.75	22.14	21.16	22.50	22.89	20.75	22.14	21.16	22.50	22.89
	8H	21.01	22.34	21.43	22.73	23.13	21.01	22.34	21.43	22.73	23.13
	12H	21.24	22.52	21.67	22.90	23.33	21.24	22.52	21.67	22.90	23.33
4H	2H	17.95	19.44	18.34	19.79	20.16	17.95	19.44	18.34	19.79	20.16
	3H	20.19	21.46	20.60	21.85	22.25	20.19	21.46	20.60	21.85	22.25
	4H	21.15	22.30	21.58	22.71	23.15	21.15	22.30	21.58	22.71	23.15
	6H	21.98	22.99	22.43	23.43	23.88	21.98	22.99	22.43	23.43	23.88
	8H	22.31	23.26	22.77	23.70	24.16	22.31	23.26	22.77	23.70	24.16
	12H	22.61	23.47	23.08	23.94	24.41	22.61	23.47	23.08	23.94	24.41
8H	4H	21.55	22.50	22.00	22.94	23.40	21.55	22.50	22.00	22.94	23.40
	6H	22.53	23.33	23.02	23.82	24.29	22.53	23.33	23.02	23.82	24.29
	8H	22.97	23.69	23.47	24.19	24.67	22.97	23.69	23.47	24.19	24.67
	12H	23.38	24.02	23.89	24.51	25.07	23.38	24.02	23.89	24.51	25.07
12H	4H	21.61	22.47	22.09	22.94	23.41	21.61	22.47	22.09	22.94	23.41
	6H	22.63	23.35	23.14	23.86	24.34	22.63	23.35	23.14	23.86	24.34
	8H	23.15	23.78	23.65	24.27	24.83	23.15	23.78	23.65	24.27	24.83