

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: P865436

Luminaire Tested: PRLX-2001-S-927-20L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865436  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-927-20L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

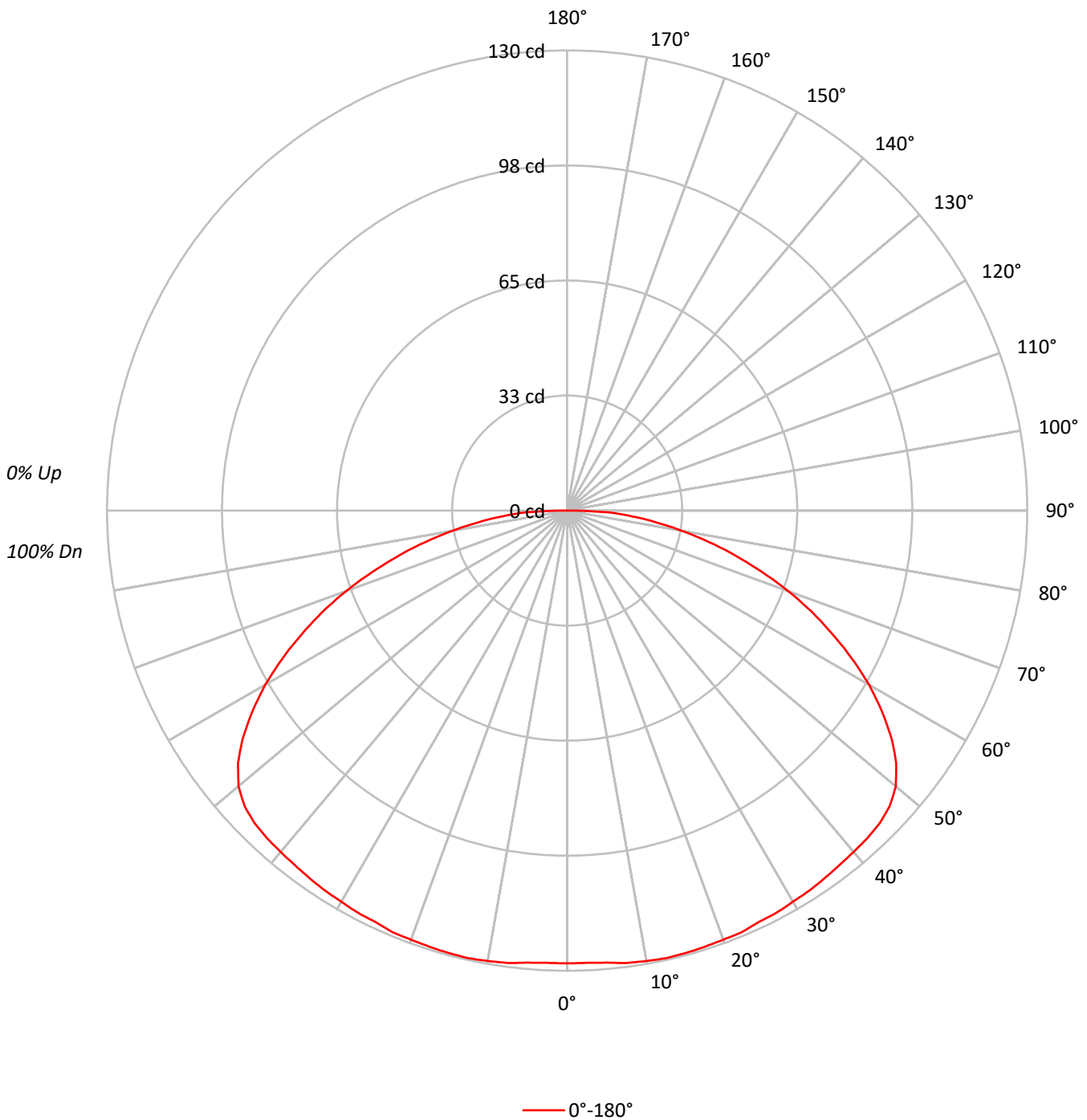
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 537.3 lumens  
Efficiency: N/A  
Efficacy: 24.6 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69  
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	92	104	99	95	91	95	91	88		91	88	85		87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70		78	73	68		75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57		67	61	56		65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47		59	52	47		57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35		47	40	34		45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30		43	35	30		41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24		35	28	23		34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	25	21	19

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

	0°
0°	2086
5°	2099
10°	2140
15°	2185
20°	2239
25°	2307
30°	2403
35°	2525
40°	2681
45°	2881
50°	3075
55°	3179
60°	3213
65°	3196
70°	3166
75°	3107
80°	3081
85°	3406

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 4412 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.3	2.3
10°-20°	36.6	6.8
20°-30°	59.4	11.1
30°-40°	79.6	14.8
40°-50°	96.3	17.9
50°-60°	99.4	18.5
60°-70°	81.9	15.2
70°-80°	52.2	9.7
80°-90°	19.5	3.6
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°	108.3	20.2
0°-40°	188.0	35.0
0°-60°	383.7	71.4
0°-90°	537.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	128	
5°	128	12
15°	129	37
25°	128	59
35°	127	80
45°	125	96
55°	112	99
65°	83	82
75°	49	52
85°	18	20
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	127.9
2.5°	127.9
5°	128.2
7.5°	128.9
10°	129.2
12.5°	129.5
15°	129.4
17.5°	129.2
20°	129.0
22.5°	128.9
25°	128.2
27.5°	128.1
30°	127.6
32.5°	127.3
35°	126.8
37.5°	126.3
40°	125.9
42.5°	125.5
45°	124.9
47.5°	123.6
50°	121.2
52.5°	117.2
55°	111.8
57.5°	105.4
60°	98.5
62.5°	90.8
65°	82.8
67.5°	74.8
70°	66.4
72.5°	57.7
75°	49.3
77.5°	41.1
80°	32.8
82.5°	25.4
85°	18.2
87.5°	11.8
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	16.65	18.42	17.01	18.73	19.04	16.65	18.42	17.01	18.73	19.04
	3H	18.73	20.34	19.10	20.67	21.02	18.73	20.34	19.10	20.67	21.02
	4H	19.56	21.09	19.96	21.43	21.81	19.56	21.09	19.96	21.43	21.81
	6H	20.25	21.68	20.66	22.04	22.43	20.25	21.68	20.66	22.04	22.43
	8H	20.53	21.89	20.95	22.28	22.67	20.53	21.89	20.95	22.28	22.67
	12H	20.76	22.07	21.19	22.45	22.88	20.76	22.07	21.19	22.45	22.88
4H	2H	17.37	18.90	17.77	19.25	19.62	17.37	18.90	17.77	19.25	19.62
	3H	19.68	20.98	20.09	21.37	21.77	19.68	20.98	20.09	21.37	21.77
	4H	20.66	21.84	21.09	22.25	22.68	20.66	21.84	21.09	22.25	22.68
	6H	21.50	22.54	21.95	22.98	23.43	21.50	22.54	21.95	22.98	23.43
	8H	21.84	22.82	22.30	23.26	23.72	21.84	22.82	22.30	23.26	23.72
	12H	22.15	23.04	22.63	23.51	23.98	22.15	23.04	22.63	23.51	23.98
8H	4H	21.07	22.04	21.52	22.48	22.95	21.07	22.04	21.52	22.48	22.95
	6H	22.07	22.89	22.56	23.37	23.84	22.07	22.89	22.56	23.37	23.84
	8H	22.52	23.26	23.02	23.76	24.24	22.52	23.26	23.02	23.76	24.24
	12H	22.95	23.61	23.45	24.09	24.65	22.95	23.61	23.45	24.09	24.65
12H	4H	21.13	22.02	21.61	22.49	22.96	21.13	22.02	21.61	22.49	22.96
	6H	22.17	22.92	22.67	23.42	23.90	22.17	22.92	22.67	23.42	23.90
	8H	22.70	23.36	23.20	23.85	24.40	22.70	23.36	23.20	23.85	24.40