

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: P865485

Luminaire Tested: PRLX-2001-S-930-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-25L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

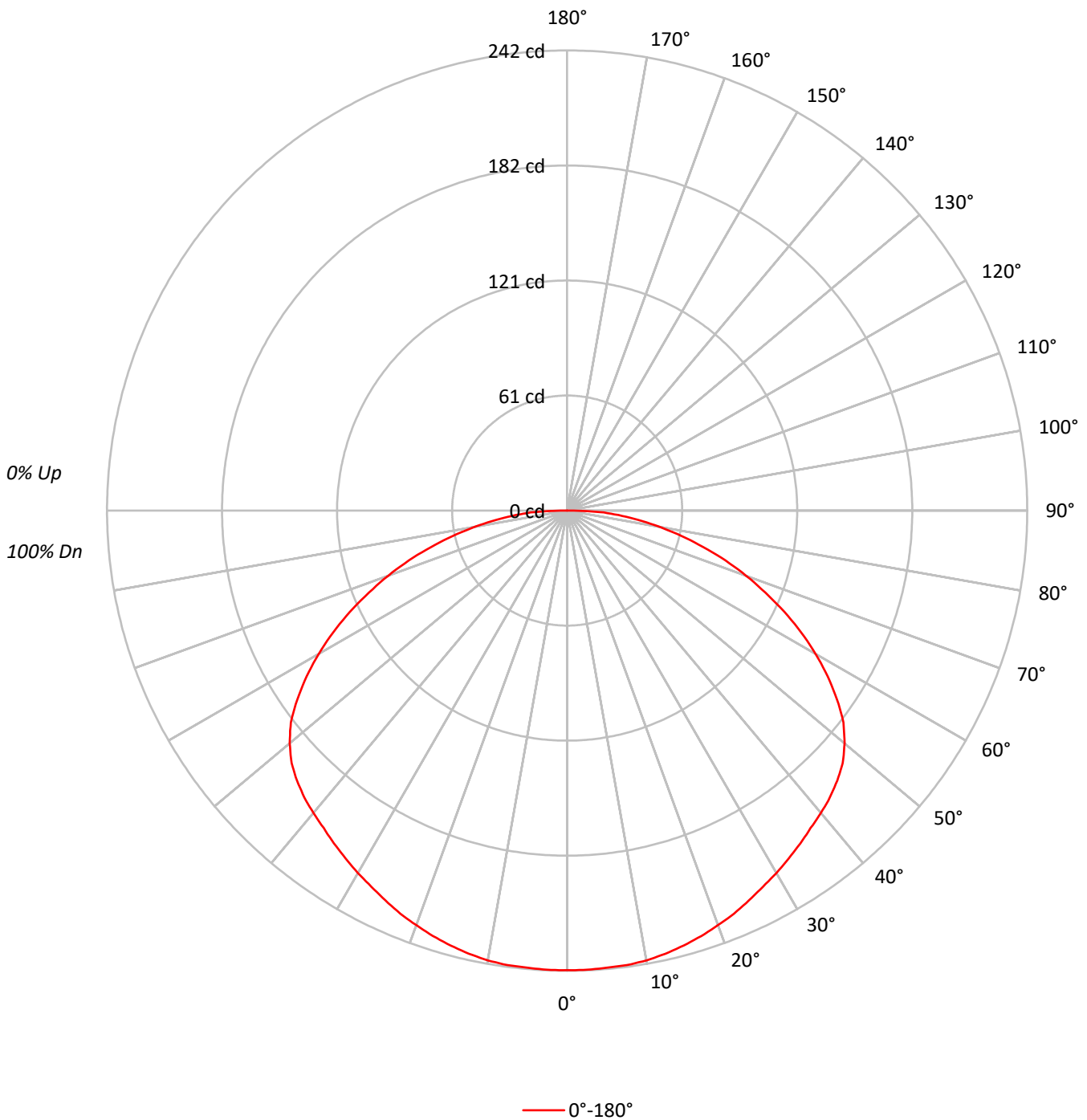
Lumens per Lamp: N/A
Luminaire Lumens: 870.0 lumens
Efficiency: N/A
Efficacy: 29.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (A_{in}): 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	89	91	89	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	72	64	59	69	63	58	66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32	44	37	31	43	36	31	29
8	58	43	35	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	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3942
5°	3951
10°	3978
15°	3998
20°	4027
25°	4071
30°	4145
35°	4255
40°	4420
45°	4634
50°	4834
55°	4928
60°	4926
65°	4870
70°	4778
75°	4670
80°	4631
85°	5053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 6469 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	2.6
10°-20°	66.9	7.7
20°-30°	104.5	12.0
30°-40°	134.1	15.4
40°-50°	154.9	17.8
50°-60°	154.4	17.7
60°-70°	124.6	14.3
70°-80°	78.6	9.0
80°-90°	29.0	3.3
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°	194.5	22.4
0°-40°	328.6	37.8
0°-60°	637.9	73.3
0°-90°	870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	870.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	242	
5°	241	23
15°	237	67
25°	226	105
35°	214	134
45°	201	155
55°	173	154
65°	126	125
75°	74	79
85°	27	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	241.7
2.5°	241.7
5°	241.3
7.5°	241.1
10°	240.2
12.5°	238.7
15°	236.8
17.5°	234.6
20°	232.0
22.5°	229.4
25°	226.2
27.5°	223.0
30°	220.1
32.5°	216.9
35°	213.7
37.5°	210.4
40°	207.6
42.5°	204.6
45°	200.9
47.5°	196.6
50°	190.5
52.5°	183.2
55°	173.3
57.5°	162.5
60°	151.0
62.5°	138.7
65°	126.2
67.5°	112.8
70°	100.2
72.5°	87.3
75°	74.1
77.5°	61.6
80°	49.3
82.5°	37.6
85°	27.0
87.5°	17.3
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	18.02	19.76	18.39	20.07	20.39	18.02	19.76	18.39	20.07	20.39
	3H	20.03	21.61	20.41	21.94	22.29	20.03	21.61	20.41	21.94	22.29
	4H	20.84	22.34	21.24	22.68	23.06	20.84	22.34	21.24	22.68	23.06
	6H	21.52	22.91	21.93	23.27	23.66	21.52	22.91	21.93	23.27	23.66
	8H	21.78	23.11	22.20	23.50	23.89	21.78	23.11	22.20	23.50	23.89
	12H	22.00	23.28	22.43	23.66	24.09	22.00	23.28	22.43	23.66	24.09
4H	2H	18.73	20.22	19.13	20.57	20.94	18.73	20.22	19.13	20.57	20.94
	3H	20.97	22.23	21.38	22.63	23.03	20.97	22.23	21.38	22.63	23.03
	4H	21.92	23.07	22.35	23.48	23.92	21.92	23.07	22.35	23.48	23.92
	6H	22.75	23.76	23.20	24.20	24.65	22.75	23.76	23.20	24.20	24.65
	8H	23.07	24.02	23.53	24.46	24.93	23.07	24.02	23.53	24.46	24.93
	12H	23.37	24.23	23.85	24.70	25.17	23.37	24.23	23.85	24.70	25.17
8H	4H	22.32	23.27	22.77	23.71	24.17	22.32	23.27	22.77	23.71	24.17
	6H	23.30	24.09	23.79	24.58	25.05	23.30	24.09	23.79	24.58	25.05
	8H	23.73	24.45	24.23	24.95	25.43	23.73	24.45	24.23	24.95	25.43
	12H	24.14	24.78	24.64	25.27	25.82	24.14	24.78	24.64	25.27	25.82
12H	4H	22.38	23.24	22.86	23.71	24.18	22.38	23.24	22.86	23.71	24.18
	6H	23.40	24.12	23.90	24.62	25.10	23.40	24.12	23.90	24.62	25.10
	8H	23.90	24.54	24.41	25.03	25.59	23.90	24.54	24.41	25.03	25.59