

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: P865973

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-25L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

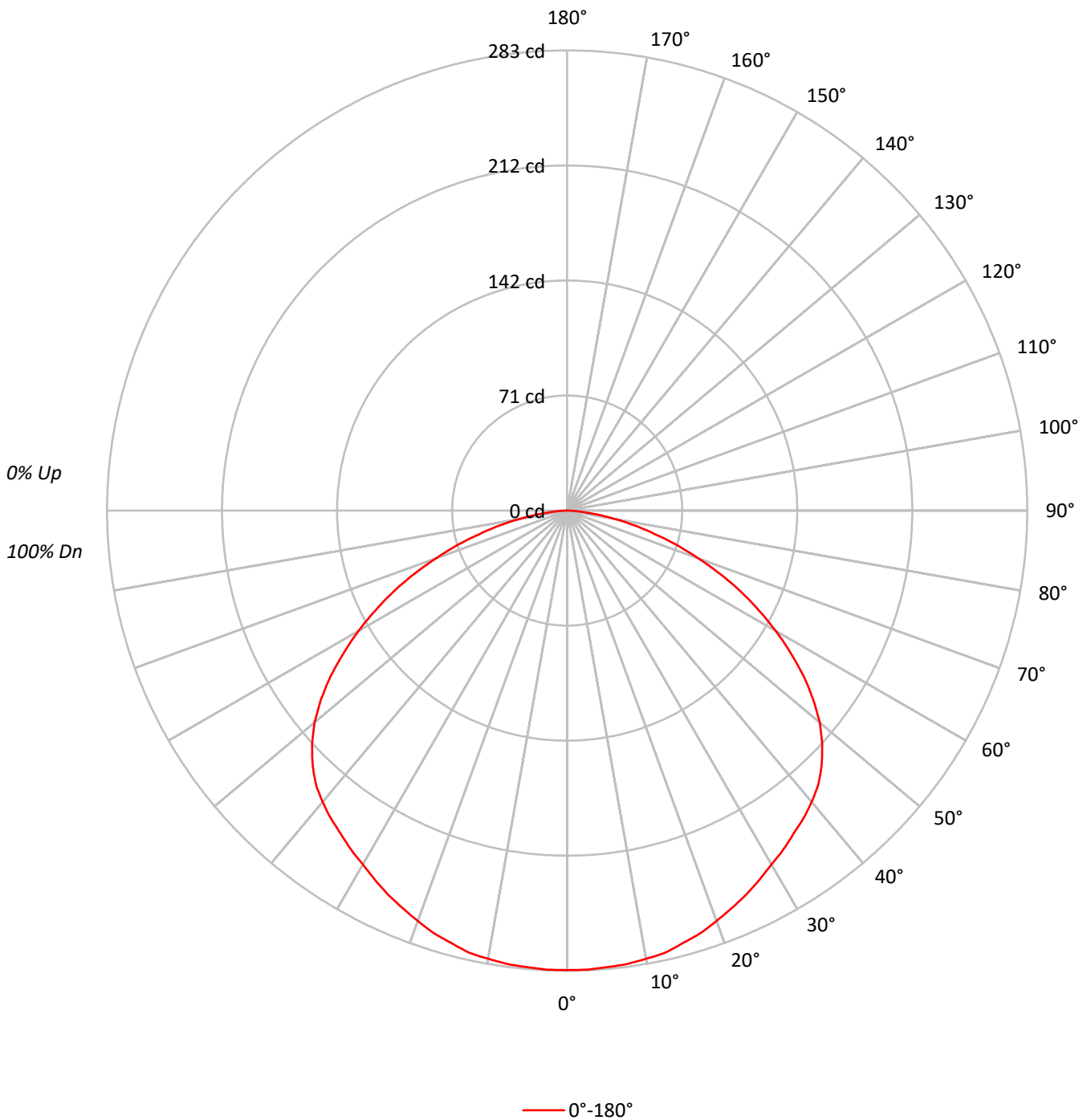
Lumens per Lamp: N/A
Luminaire Lumens: 894.0 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: 0.333 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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2398
5°	2401
10°	2412
15°	2419
20°	2426
25°	2440
30°	2462
35°	2514
40°	2592
45°	2657
50°	2677
55°	2626
60°	2517
65°	2363
70°	2129
75°	1833
80°	1461
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2677 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	3.0
10°-20°	77.8	8.7
20°-30°	120.2	13.4
30°-40°	152.3	17.0
40°-50°	170.3	19.0
50°-60°	158.0	17.7
60°-70°	116.1	13.0
70°-80°	59.9	6.7
80°-90°	12.4	1.4
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°	224.9	25.2
0°-40°	377.3	42.2
0°-60°	705.6	78.9
0°-90°	894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	283	
5°	282	27
15°	275	78
25°	261	120
35°	243	152
45°	221	170
55°	178	158
65°	118	116
75°	56	60
85°	9	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	282.6
2.5°	282.6
5°	281.9
7.5°	281.3
10°	279.9
12.5°	278.6
15°	275.3
17.5°	272.6
20°	268.6
22.5°	264.6
25°	260.6
27.5°	256.0
30°	251.3
32.5°	247.3
35°	242.7
37.5°	238.7
40°	234.0
42.5°	228.7
45°	221.4
47.5°	212.8
50°	202.8
52.5°	190.8
55°	177.5
57.5°	162.9
60°	148.3
62.5°	133.0
65°	117.7
67.5°	101.7
70°	85.8
72.5°	71.1
75°	55.9
77.5°	42.6
80°	29.9
82.5°	18.6
85°	9.3
87.5°	2.7
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	15.75	17.42	16.12	17.73	18.05	15.75	17.42	16.12	17.73	18.05
	3H	17.39	18.90	17.77	19.23	19.58	17.39	18.90	17.77	19.23	19.58
	4H	17.94	19.36	18.34	19.70	20.08	17.94	19.36	18.34	19.70	20.08
	6H	18.28	19.60	18.69	19.96	20.35	18.28	19.60	18.69	19.96	20.35
	8H	18.36	19.62	18.79	20.01	20.41	18.36	19.62	18.79	20.01	20.41
	12H	18.40	19.60	18.83	19.98	20.41	18.40	19.60	18.83	19.98	20.41
4H	2H	16.36	17.78	16.76	18.13	18.50	16.36	17.78	16.76	18.13	18.50
	3H	18.20	19.39	18.61	19.79	20.18	18.20	19.39	18.61	19.79	20.18
	4H	18.85	19.93	19.28	20.34	20.78	18.85	19.93	19.28	20.34	20.78
	6H	19.30	20.24	19.75	20.68	21.13	19.30	20.24	19.75	20.68	21.13
	8H	19.41	20.29	19.87	20.73	21.20	19.41	20.29	19.87	20.73	21.20
	12H	19.47	20.26	19.95	20.73	21.20	19.47	20.26	19.95	20.73	21.20
8H	4H	19.11	19.98	19.56	20.42	20.89	19.11	19.98	19.56	20.42	20.89
	6H	19.64	20.37	20.13	20.85	21.33	19.64	20.37	20.13	20.85	21.33
	8H	19.79	20.44	20.30	20.95	21.44	19.79	20.44	20.30	20.95	21.44
	12H	19.89	20.47	20.39	20.96	21.52	19.89	20.47	20.39	20.96	21.52
12H	4H	19.12	19.91	19.60	20.39	20.85	19.12	19.91	19.60	20.39	20.85
	6H	19.66	20.32	20.17	20.82	21.31	19.66	20.32	20.17	20.82	21.31
	8H	19.86	20.44	20.37	20.93	21.49	19.86	20.44	20.37	20.93	21.49