

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: P865901

Luminaire Tested: PRLX-2001-M-927-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865901
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-927-15L-G-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

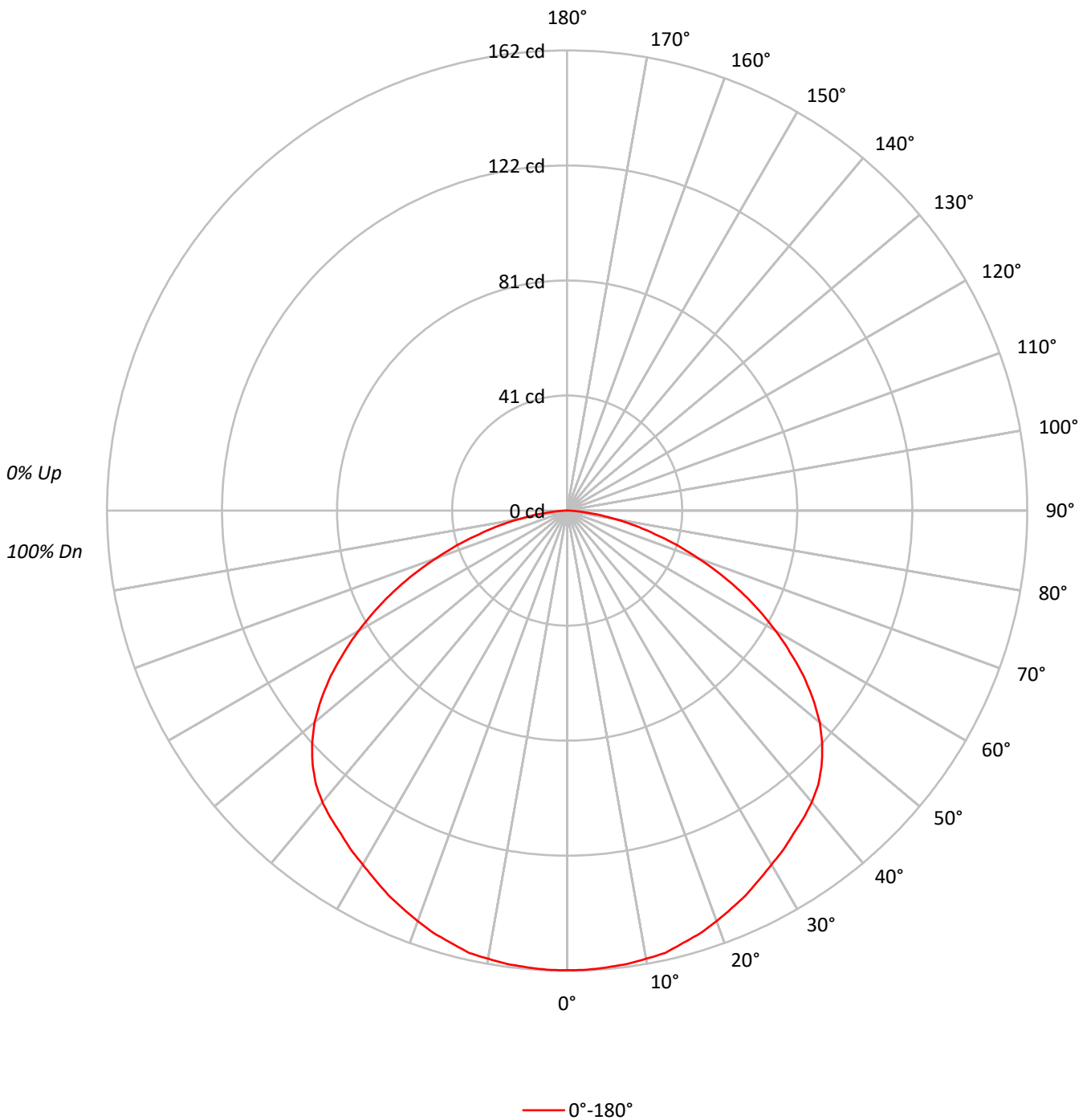
Lumens per Lamp: N/A
Luminaire Lumens: 511.8 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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	59	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		50	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°	1373
5°	1375
10°	1380
15°	1385
20°	1389
25°	1397
30°	1410
35°	1439
40°	1484
45°	1521
50°	1533
55°	1503
60°	1441
65°	1353
70°	1218
75°	1049
80°	836
85°	516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1533 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	3.0
10°-20°	44.6	8.7
20°-30°	68.8	13.5
30°-40°	87.2	17.0
40°-50°	97.5	19.0
50°-60°	90.5	17.7
60°-70°	66.5	13.0
70°-80°	34.3	6.7
80°-90°	7.1	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°	128.8	25.2
0°-40°	216.0	42.2
0°-60°	403.9	78.9
0°-90°	511.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	162	
5°	161	15
15°	158	45
25°	149	69
35°	139	87
45°	127	97
55°	102	90
65°	67	66
75°	32	34
85°	5	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	161.8
2.5°	161.8
5°	161.4
7.5°	161.0
10°	160.2
12.5°	159.5
15°	157.6
17.5°	156.0
20°	153.8
22.5°	151.5
25°	149.2
27.5°	146.5
30°	143.9
32.5°	141.6
35°	138.9
37.5°	136.6
40°	134.0
42.5°	130.9
45°	126.7
47.5°	121.8
50°	116.1
52.5°	109.2
55°	101.6
57.5°	93.2
60°	84.9
62.5°	76.1
65°	67.4
67.5°	58.2
70°	49.1
72.5°	40.7
75°	32.0
77.5°	24.4
80°	17.1
82.5°	10.7
85°	5.3
87.5°	1.5
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	13.81	15.48	14.17	15.79	16.11	13.81	15.48	14.17	15.79	16.11
	3H	15.45	16.96	15.83	17.28	17.64	15.45	16.96	15.83	17.28	17.64
	4H	16.00	17.42	16.39	17.76	18.14	16.00	17.42	16.39	17.76	18.14
	6H	16.34	17.66	16.75	18.02	18.41	16.34	17.66	16.75	18.02	18.41
	8H	16.42	17.68	16.85	18.07	18.47	16.42	17.68	16.85	18.07	18.47
	12H	16.46	17.66	16.89	18.04	18.47	16.46	17.66	16.89	18.04	18.47
4H	2H	14.42	15.84	14.82	16.19	16.56	14.42	15.84	14.82	16.19	16.56
	3H	16.26	17.45	16.67	17.84	18.24	16.26	17.45	16.67	17.84	18.24
	4H	16.91	17.99	17.35	18.40	18.84	16.91	17.99	17.35	18.40	18.84
	6H	17.36	18.30	17.82	18.74	19.19	17.36	18.30	17.82	18.74	19.19
	8H	17.47	18.35	17.93	18.79	19.26	17.47	18.35	17.93	18.79	19.26
	12H	17.53	18.32	18.01	18.80	19.26	17.53	18.32	18.01	18.80	19.26
8H	4H	17.17	18.04	17.63	18.48	18.95	17.17	18.04	17.63	18.48	18.95
	6H	17.70	18.43	18.19	18.91	19.39	17.70	18.43	18.19	18.91	19.39
	8H	17.85	18.51	18.36	19.01	19.50	17.85	18.51	18.36	19.01	19.50
	12H	17.95	18.53	18.46	19.02	19.58	17.95	18.53	18.46	19.02	19.58
12H	4H	17.18	17.97	17.66	18.45	18.92	17.18	17.97	17.66	18.45	18.92
	6H	17.72	18.38	18.23	18.88	19.37	17.72	18.38	18.23	18.88	19.37
	8H	17.92	18.50	18.43	18.99	19.55	17.92	18.50	18.43	18.99	19.55