

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: P865913

Luminaire Tested: PRLX-2001-M-927-25L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-25L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

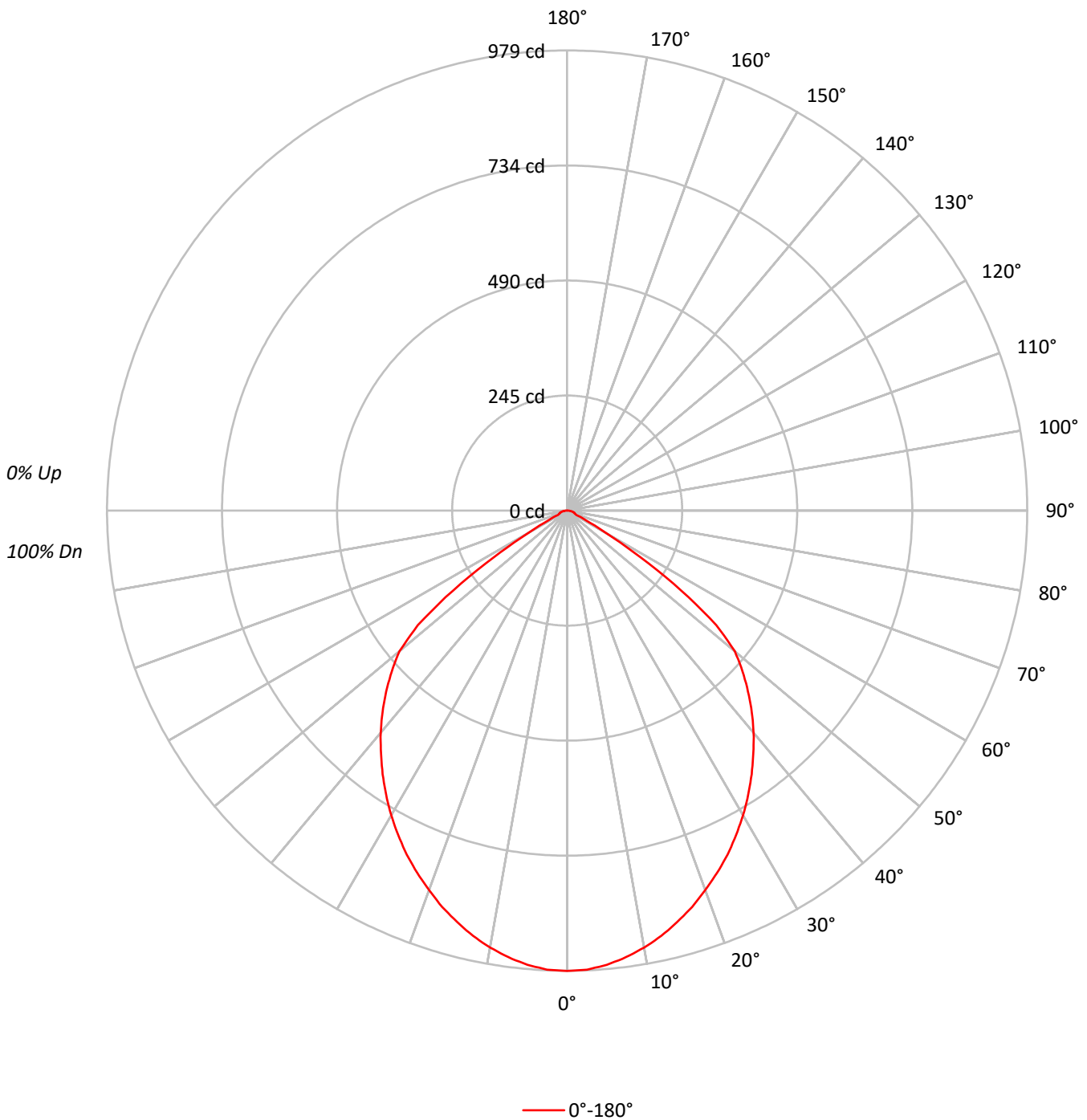
Lumens per Lamp: N/A
Luminaire Lumens: 1878.2 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8311
5°	8262
10°	8134
15°	7958
20°	7756
25°	7561
30°	7334
35°	7090
40°	6837
45°	6531
50°	6147
55°	4393
60°	1636
65°	434
70°	424
75°	459
80°	494
85°	497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6531 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	4.9
10°-20°	255.2	13.6
20°-30°	371.5	19.8
30°-40°	427.9	22.8
40°-50°	419.2	22.3
50°-60°	257.4	13.7
60°-70°	35.0	1.9
70°-80°	14.7	0.8
80°-90°	5.5	0.3
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°	718.4	38.3
0°-40°	1146.3	61.0
0°-60°	1823.0	97.1
0°-90°	1878.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1878.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	979	
5°	970	92
15°	906	255
25°	808	372
35°	684	428
45°	544	419
55°	297	257
65°	22	35
75°	14	15
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	979.4
2.5°	977.5
5°	969.9
7.5°	958.5
10°	943.9
12.5°	926.7
15°	905.8
17.5°	884.2
20°	858.9
22.5°	834.1
25°	807.5
27.5°	778.3
30°	748.5
32.5°	716.8
35°	684.4
37.5°	650.8
40°	617.2
42.5°	581.7
45°	544.2
47.5°	506.2
50°	465.6
52.5°	400.3
55°	296.9
57.5°	184.6
60°	96.4
62.5°	46.9
65°	21.6
67.5°	17.8
70°	17.1
72.5°	15.9
75°	14.0
77.5°	12.1
80°	10.1
82.5°	7.6
85°	5.1
87.5°	2.5
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	14.18	15.58	14.55	15.89	16.21	14.18	15.58	14.55	15.89	16.21
	3H	14.12	15.35	14.50	15.68	16.04	14.12	15.35	14.50	15.68	16.04
	4H	14.10	15.24	14.50	15.59	15.98	14.10	15.24	14.50	15.59	15.98
	6H	14.09	15.14	14.50	15.50	15.90	14.09	15.14	14.50	15.50	15.90
	8H	14.08	15.07	14.51	15.46	15.86	14.08	15.07	14.51	15.46	15.86
	12H	14.06	15.01	14.49	15.39	15.82	14.06	15.01	14.49	15.39	15.82
4H	2H	14.02	15.16	14.42	15.51	15.89	14.02	15.16	14.42	15.51	15.89
	3H	13.99	14.91	14.40	15.31	15.72	13.99	14.91	14.40	15.31	15.72
	4H	13.99	14.81	14.43	15.23	15.67	13.99	14.81	14.43	15.23	15.67
	6H	14.02	14.72	14.48	15.17	15.63	14.02	14.72	14.48	15.17	15.63
	8H	14.01	14.67	14.48	15.12	15.59	14.01	14.67	14.48	15.12	15.59
	12H	14.01	14.59	14.49	15.08	15.55	14.01	14.59	14.49	15.08	15.55
8H	4H	13.90	14.56	14.37	15.01	15.48	13.90	14.56	14.37	15.01	15.48
	6H	13.94	14.49	14.44	14.98	15.46	13.94	14.49	14.44	14.98	15.46
	8H	13.95	14.45	14.47	14.96	15.45	13.95	14.45	14.47	14.96	15.45
	12H	13.98	14.42	14.49	14.92	15.48	13.98	14.42	14.49	14.92	15.48
12H	4H	13.87	14.45	14.35	14.93	15.41	13.87	14.45	14.35	14.93	15.41
	6H	13.90	14.39	14.42	14.91	15.40	13.90	14.39	14.42	14.91	15.40
	8H	13.94	14.38	14.45	14.88	15.45	13.94	14.38	14.45	14.88	15.45