

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: P865968

Luminaire Tested: PRLX-2001-M-930-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-15L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

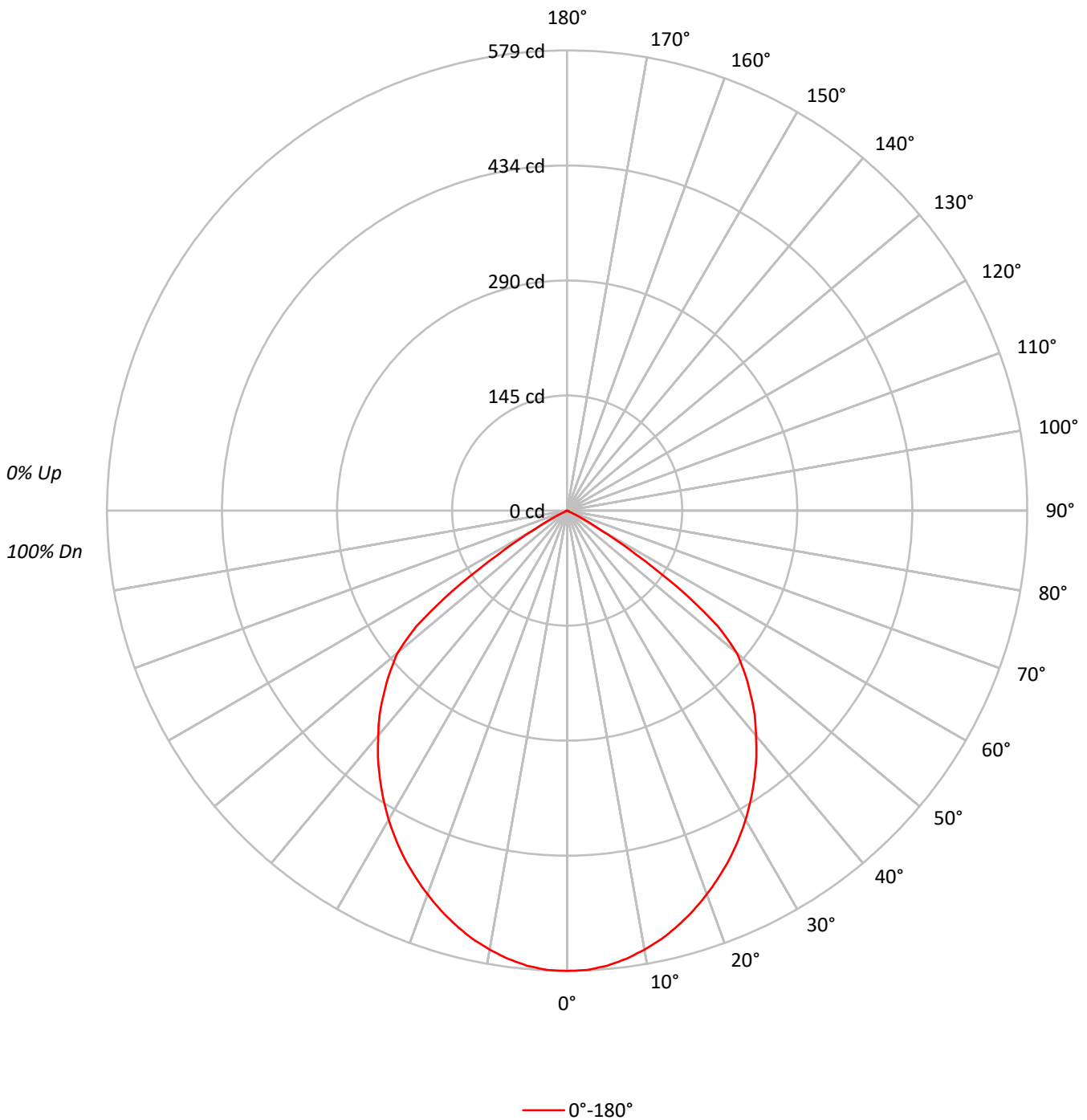
Lumens per Lamp: N/A
Luminaire Lumens: 1101.9 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.5 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	112	108	105	103	109	106	103	101	102	100	98		98	97	95		95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86		90	86	84		87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66		74	69	65		72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59		68	62	58		66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4916
5°	4897
10°	4833
15°	4746
20°	4640
25°	4527
30°	4402
35°	4257
40°	4097
45°	3916
50°	3682
55°	2597
60°	820
65°	56
70°	40
75°	39
80°	39
85°	39

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3916 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	4.9
10°-20°	152.2	13.8
20°-30°	222.6	20.2
30°-40°	256.9	23.3
40°-50°	251.4	22.8
50°-60°	150.8	13.7
60°-70°	11.8	1.1
70°-80°	1.4	0.1
80°-90°	0.5	0.0
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°	429.2	38.9
0°-40°	686.1	62.3
0°-60°	1088.2	98.8
0°-90°	1101.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	579	
5°	575	54
15°	540	152
25°	484	223
35°	411	257
45°	326	251
55°	176	151
65°	3	12
75°	1	1
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	579.3
2.5°	578.5
5°	574.9
7.5°	568.9
10°	560.9
12.5°	551.7
15°	540.2
17.5°	527.8
20°	513.8
22.5°	499.1
25°	483.5
27.5°	466.8
30°	449.2
32.5°	430.5
35°	410.9
37.5°	391.0
40°	369.8
42.5°	349.5
45°	326.3
47.5°	303.2
50°	278.9
52.5°	239.4
55°	175.5
57.5°	103.3
60°	48.3
62.5°	19.1
65°	2.8
67.5°	1.6
70°	1.6
72.5°	1.6
75°	1.2
77.5°	1.2
80°	0.8
82.5°	0.8
85°	0.4
87.5°	0.4
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	12.00	13.37	12.36	13.68	14.00	12.00	13.37	12.36	13.68	14.00
	3H	11.88	13.08	12.25	13.41	13.77	11.88	13.08	12.25	13.41	13.77
	4H	11.81	12.92	12.21	13.28	13.66	11.81	12.92	12.21	13.28	13.66
	6H	11.73	12.76	12.15	13.13	13.52	11.73	12.76	12.15	13.13	13.52
	8H	11.69	12.66	12.12	13.05	13.46	11.69	12.66	12.12	13.05	13.46
	12H	11.65	12.58	12.08	12.96	13.39	11.65	12.58	12.08	12.96	13.39
4H	2H	11.81	12.92	12.21	13.28	13.66	11.81	12.92	12.21	13.28	13.66
	3H	11.69	12.58	12.10	12.99	13.39	11.69	12.58	12.10	12.99	13.39
	4H	11.60	12.40	12.04	12.82	13.26	11.60	12.40	12.04	12.82	13.26
	6H	11.53	12.21	11.99	12.66	13.12	11.53	12.21	11.99	12.66	13.12
	8H	11.47	12.11	11.94	12.56	13.03	11.47	12.11	11.94	12.56	13.03
	12H	11.42	11.99	11.91	12.47	12.95	11.42	11.99	11.91	12.47	12.95
8H	4H	11.47	12.11	11.94	12.55	13.02	11.47	12.11	11.94	12.55	13.02
	6H	11.36	11.89	11.86	12.39	12.87	11.36	11.89	11.86	12.39	12.87
	8H	11.29	11.77	11.82	12.29	12.78	11.29	11.77	11.82	12.29	12.78
	12H	11.24	11.68	11.76	12.17	12.74	11.24	11.68	11.76	12.17	12.74
12H	4H	11.42	11.98	11.90	12.47	12.94	11.42	11.98	11.90	12.47	12.94
	6H	11.29	11.77	11.81	12.29	12.78	11.29	11.77	11.81	12.29	12.78
	8H	11.24	11.67	11.76	12.17	12.74	11.24	11.67	11.76	12.17	12.74