

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: P865424

Luminaire Tested: PRLX-2001-S-927-10L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-10L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

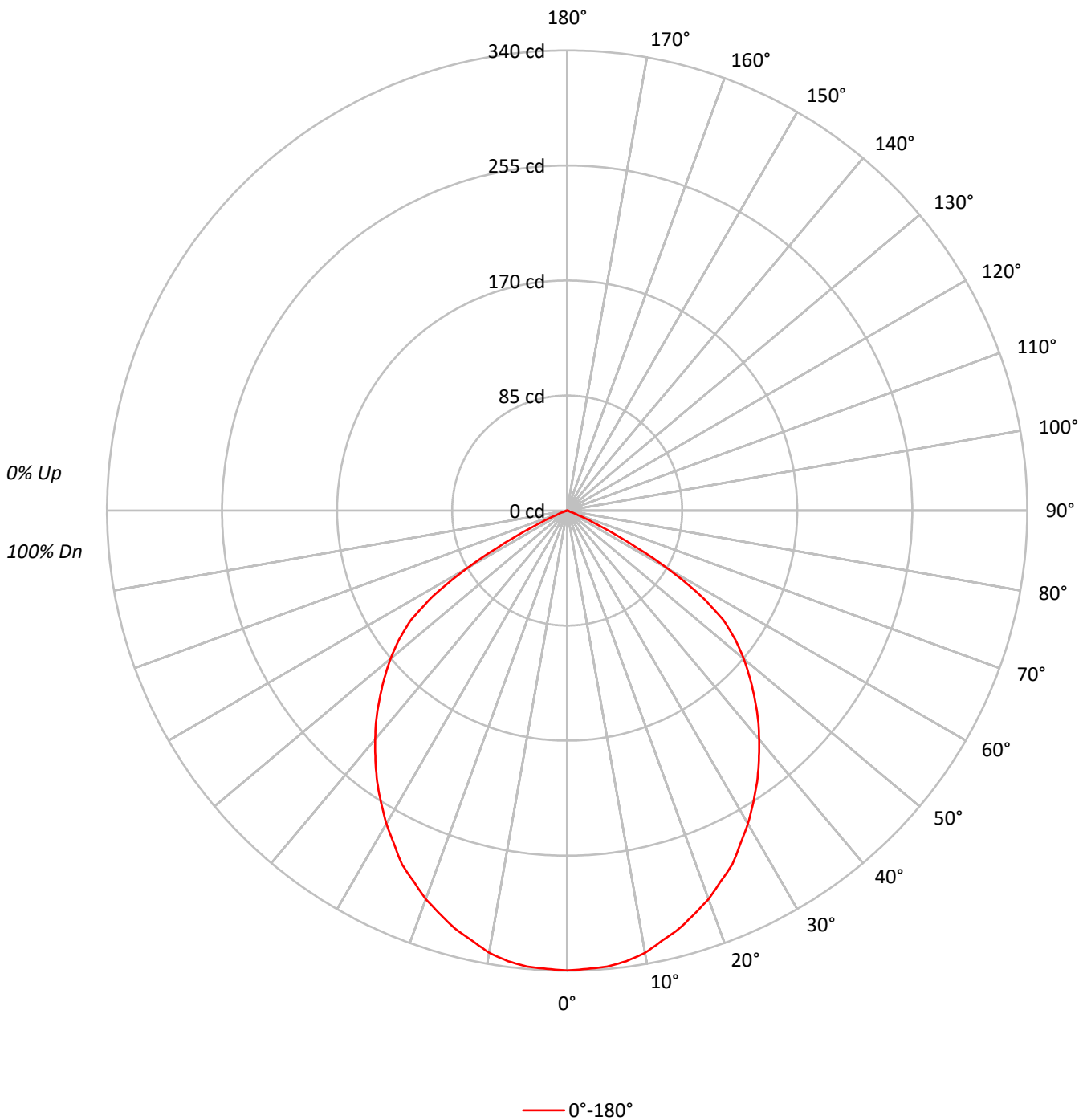
Lumens per Lamp: N/A
Luminaire Lumens: 712.9 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.29
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	111	108	104	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56		65	60	55		64	59	54	53
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58	53	48	47
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5542
5°	5537
10°	5495
15°	5400
20°	5301
25°	5194
30°	5030
35°	4872
40°	4699
45°	4519
50°	4321
55°	4001
60°	2818
65°	926
70°	76
75°	50
80°	75
85°	150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4519 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	4.5
10°-20°	90.1	12.6
20°-30°	132.4	18.6
30°-40°	152.9	21.4
40°-50°	151.1	21.2
50°-60°	121.1	17.0
60°-70°	31.4	4.4
70°-80°	1.0	0.1
80°-90°	0.8	0.1
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°	254.6	35.7
0°-40°	407.5	57.2
0°-60°	679.7	95.4
0°-90°	712.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	340	
5°	338	32
15°	320	90
25°	289	132
35°	245	153
45°	196	151
55°	141	121
65°	24	31
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	339.8
2.5°	339.0
5°	338.2
7.5°	335.8
10°	331.8
12.5°	325.4
15°	319.8
17.5°	312.6
20°	305.4
22.5°	296.6
25°	288.6
27.5°	277.4
30°	267.1
32.5°	255.9
35°	244.7
37.5°	232.7
40°	220.7
42.5°	208.7
45°	195.9
47.5°	183.1
50°	170.3
52.5°	156.7
55°	140.7
57.5°	117.5
60°	86.4
62.5°	52.0
65°	24.0
67.5°	8.8
70°	1.6
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.8
87.5°	0.8
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	16.73	18.18	17.09	18.49	18.80	16.73	18.18	17.09	18.49	18.80
	3H	16.62	17.90	17.00	18.23	18.59	16.62	17.90	17.00	18.23	18.59
	4H	16.56	17.75	16.96	18.10	18.48	16.56	17.75	16.96	18.10	18.48
	6H	16.49	17.58	16.90	17.95	18.34	16.49	17.58	16.90	17.95	18.34
	8H	16.45	17.49	16.88	17.88	18.28	16.45	17.49	16.88	17.88	18.28
	12H	16.42	17.40	16.85	17.79	18.22	16.42	17.40	16.85	17.79	18.22
4H	2H	16.63	17.82	17.03	18.17	18.55	16.63	17.82	17.03	18.17	18.55
	3H	16.53	17.49	16.94	17.89	18.30	16.53	17.49	16.94	17.89	18.30
	4H	16.45	17.31	16.89	17.72	18.17	16.45	17.31	16.89	17.72	18.17
	6H	16.38	17.12	16.85	17.56	18.03	16.38	17.12	16.85	17.56	18.03
	8H	16.33	17.02	16.80	17.47	17.93	16.33	17.02	16.80	17.47	17.93
	12H	16.29	16.90	16.78	17.38	17.86	16.29	16.90	16.78	17.38	17.86
8H	4H	16.33	17.02	16.80	17.46	17.93	16.33	17.02	16.80	17.46	17.93
	6H	16.24	16.80	16.74	17.29	17.77	16.24	16.80	16.74	17.29	17.77
	8H	16.18	16.69	16.69	17.20	17.69	16.18	16.69	16.69	17.20	17.69
	12H	16.13	16.59	16.65	17.08	17.65	16.13	16.59	16.65	17.08	17.65
12H	4H	16.29	16.90	16.77	17.38	17.85	16.29	16.90	16.77	17.38	17.85
	6H	16.17	16.68	16.69	17.20	17.69	16.17	16.68	16.69	17.20	17.69
	8H	16.13	16.59	16.64	17.08	17.65	16.13	16.59	16.64	17.08	17.65