

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: P865418

Luminaire Tested: PRLX-2001-S-927-05L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-05L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

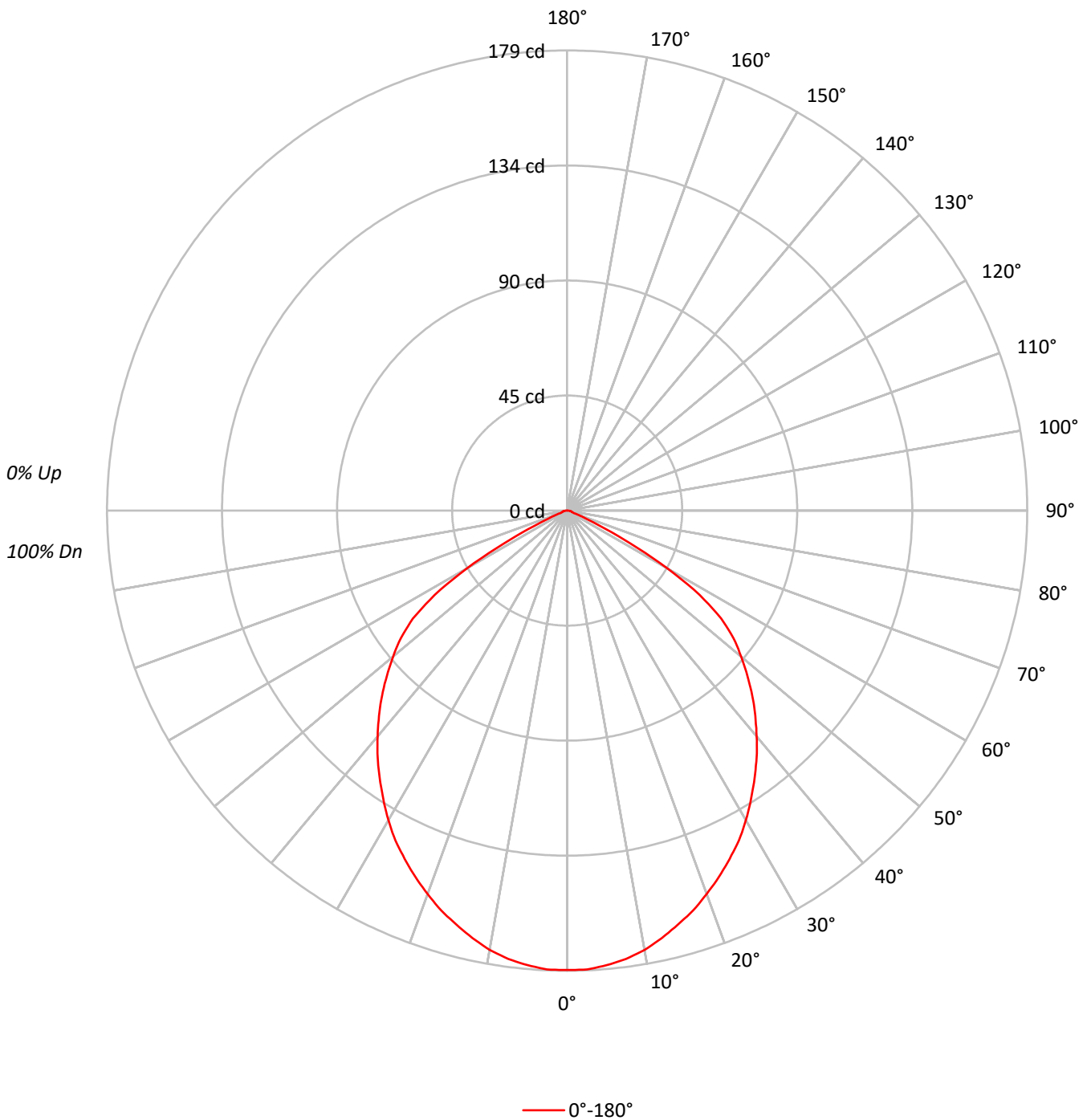
Lumens per Lamp: N/A
Luminaire Lumens: 374.3 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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	101	109	105	102	100	101	99	96		97	95	94		94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83		88	84	81		85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44		54	48	43		53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32		43	37	32		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2915
5°	2906
10°	2873
15°	2815
20°	2755
25°	2690
30°	2620
35°	2531
40°	2442
45°	2350
50°	2243
55°	2082
60°	1474
65°	540
70°	134
75°	126
80°	150
85°	150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2350 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	4.5
10°-20°	47.0	12.6
20°-30°	68.9	18.4
30°-40°	79.5	21.2
40°-50°	78.5	21.0
50°-60°	63.1	16.9
60°-70°	17.6	4.7
70°-80°	2.1	0.6
80°-90°	0.9	0.2
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°	132.7	35.5
0°-40°	212.2	56.7
0°-60°	353.8	94.5
0°-90°	374.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	374.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	179	
5°	178	17
15°	167	47
25°	150	69
35°	127	80
45°	102	78
55°	73	63
65°	14	18
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	178.7
2.5°	178.7
5°	177.5
7.5°	175.9
10°	173.5
12.5°	170.3
15°	166.7
17.5°	163.1
20°	158.7
22.5°	154.3
25°	149.5
27.5°	144.7
30°	139.1
32.5°	133.1
35°	127.1
37.5°	121.1
40°	114.7
42.5°	108.3
45°	101.9
47.5°	95.1
50°	88.4
52.5°	81.6
55°	73.2
57.5°	61.2
60°	45.2
62.5°	27.6
65°	14.0
67.5°	6.4
70°	2.8
72.5°	2.0
75°	2.0
77.5°	1.6
80°	1.6
82.5°	1.2
85°	0.8
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	14.42	15.88	14.79	16.19	16.51	14.42	15.88	14.79	16.19	16.51
	3H	14.35	15.63	14.73	15.96	16.33	14.35	15.63	14.73	15.96	16.33
	4H	14.29	15.49	14.69	15.84	16.22	14.29	15.49	14.69	15.84	16.22
	6H	14.23	15.33	14.65	15.70	16.09	14.23	15.33	14.65	15.70	16.09
	8H	14.20	15.24	14.63	15.63	16.04	14.20	15.24	14.63	15.63	16.04
	12H	14.17	15.17	14.60	15.55	15.98	14.17	15.17	14.60	15.55	15.98
4H	2H	14.34	15.54	14.74	15.89	16.27	14.34	15.54	14.74	15.89	16.27
	3H	14.28	15.25	14.69	15.65	16.05	14.28	15.25	14.69	15.65	16.05
	4H	14.21	15.08	14.65	15.49	15.94	14.21	15.08	14.65	15.49	15.94
	6H	14.16	14.91	14.62	15.35	15.82	14.16	14.91	14.62	15.35	15.82
	8H	14.12	14.82	14.59	15.26	15.73	14.12	14.82	14.59	15.26	15.73
	12H	14.09	14.71	14.58	15.19	15.66	14.09	14.71	14.58	15.19	15.66
8H	4H	14.10	14.79	14.57	15.24	15.71	14.10	14.79	14.57	15.24	15.71
	6H	14.03	14.60	14.53	15.10	15.58	14.03	14.60	14.53	15.10	15.58
	8H	13.99	14.51	14.51	15.02	15.51	13.99	14.51	14.51	15.02	15.51
	12H	13.96	14.42	14.47	14.92	15.49	13.96	14.42	14.47	14.92	15.49
12H	4H	14.06	14.68	14.55	15.16	15.63	14.06	14.68	14.55	15.16	15.63
	6H	13.98	14.49	14.49	15.01	15.50	13.98	14.49	14.49	15.01	15.50
	8H	13.95	14.41	14.46	14.91	15.48	13.95	14.41	14.46	14.91	15.48