

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: P865526

Luminaire Tested: PRLX-2001-S-935-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-935-25L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

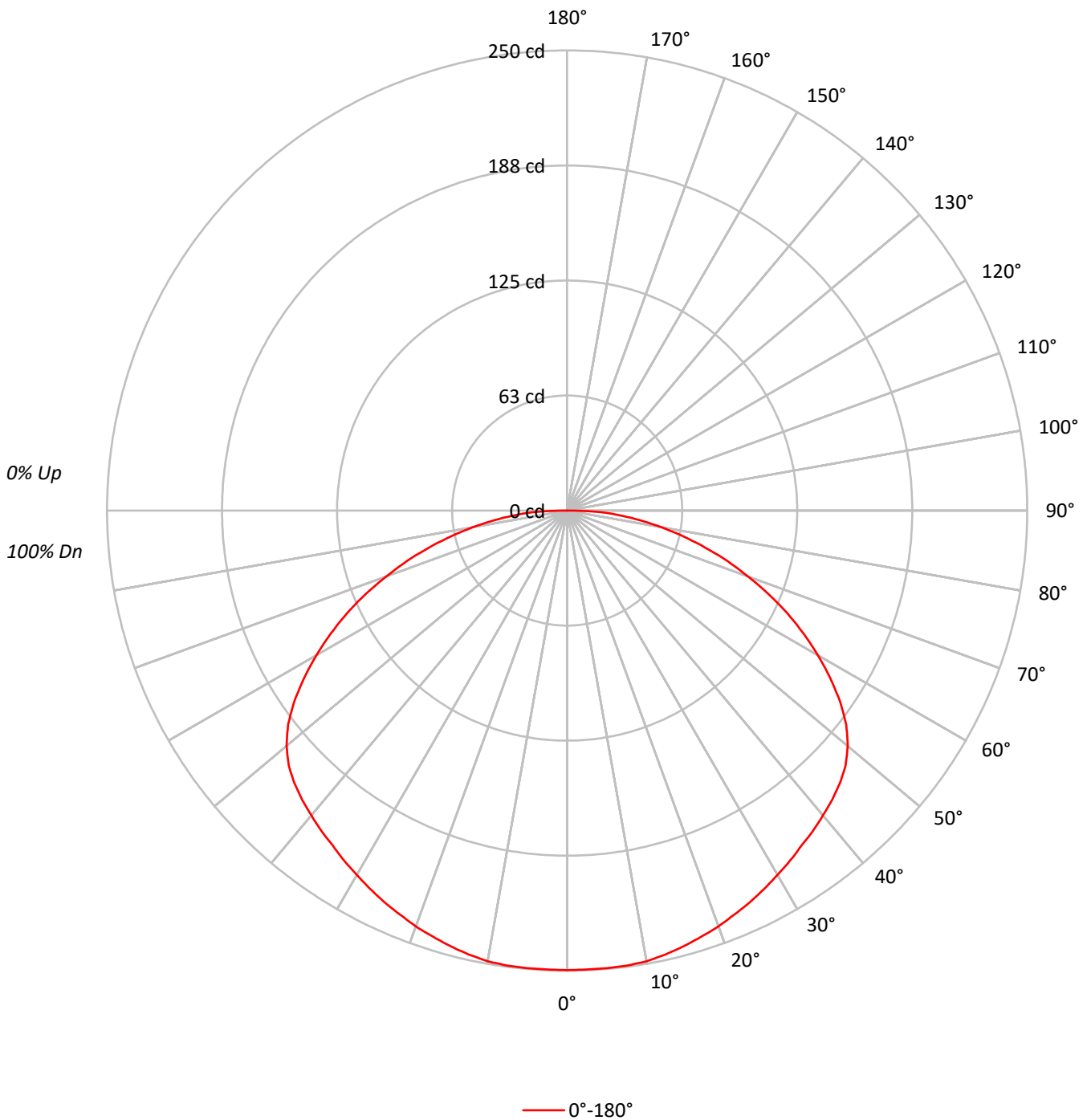
Lumens per Lamp: N/A
Luminaire Lumens: 906.6 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): 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	107	102	97	93	105	100	95	91	95	92	88		91	88	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59		69	63	58		66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49		60	54	48		58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4073
5°	4085
10°	4117
15°	4137
20°	4173
25°	4226
30°	4303
35°	4422
40°	4603
45°	4832
50°	5049
55°	5147
60°	5134
65°	5090
70°	4983
75°	4890
80°	4865
85°	5296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 6843 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	2.6
10°-20°	69.3	7.6
20°-30°	108.4	12.0
30°-40°	139.5	15.4
40°-50°	161.6	17.8
50°-60°	161.1	17.8
60°-70°	130.2	14.4
70°-80°	82.2	9.1
80°-90°	30.5	3.4
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°	201.5	22.2
0°-40°	341.0	37.6
0°-60°	663.7	73.2
0°-90°	906.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	906.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	250	
5°	250	24
15°	245	69
25°	235	108
35°	222	140
45°	210	162
55°	181	161
65°	132	130
75°	78	82
85°	28	31
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	249.7
2.5°	249.5
5°	249.5
7.5°	249.3
10°	248.6
12.5°	247.0
15°	245.0
17.5°	242.7
20°	240.4
22.5°	237.5
25°	234.8
27.5°	231.8
30°	228.5
32.5°	225.5
35°	222.1
37.5°	219.4
40°	216.2
42.5°	213.1
45°	209.5
47.5°	205.2
50°	199.0
52.5°	191.1
55°	181.0
57.5°	169.6
60°	157.4
62.5°	144.8
65°	131.9
67.5°	118.3
70°	104.5
72.5°	91.2
75°	77.6
77.5°	64.5
80°	51.8
82.5°	39.6
85°	28.3
87.5°	18.3
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	18.17	19.91	18.54	20.22	20.54	18.17	19.91	18.54	20.22	20.54
	3H	20.19	21.77	20.57	22.10	22.46	20.19	21.77	20.57	22.10	22.46
	4H	21.01	22.50	21.40	22.85	23.22	21.01	22.50	21.40	22.85	23.22
	6H	21.68	23.07	22.09	23.44	23.82	21.68	23.07	22.09	23.44	23.82
	8H	21.95	23.28	22.37	23.67	24.06	21.95	23.28	22.37	23.67	24.06
	12H	22.17	23.45	22.60	23.83	24.26	22.17	23.45	22.60	23.83	24.26
4H	2H	18.88	20.38	19.28	20.72	21.10	18.88	20.38	19.28	20.72	21.10
	3H	21.13	22.40	21.54	22.79	23.19	21.13	22.40	21.54	22.79	23.19
	4H	22.08	23.24	22.51	23.65	24.08	22.08	23.24	22.51	23.65	24.08
	6H	22.91	23.93	23.36	24.37	24.82	22.91	23.93	23.36	24.37	24.82
	8H	23.24	24.20	23.70	24.64	25.10	23.24	24.20	23.70	24.64	25.10
	12H	23.54	24.40	24.02	24.88	25.34	23.54	24.40	24.02	24.88	25.34
8H	4H	22.48	23.43	22.94	23.87	24.34	22.48	23.43	22.94	23.87	24.34
	6H	23.47	24.27	23.96	24.75	25.22	23.47	24.27	23.96	24.75	25.22
	8H	23.90	24.62	24.41	25.12	25.61	23.90	24.62	24.41	25.12	25.61
	12H	24.32	24.96	24.82	25.45	26.00	24.32	24.96	24.82	25.45	26.00
12H	4H	22.55	23.41	23.02	23.88	24.35	22.55	23.41	23.02	23.88	24.35
	6H	23.57	24.29	24.07	24.79	25.27	23.57	24.29	24.07	24.79	25.27
	8H	24.08	24.72	24.58	25.21	25.76	24.08	24.72	24.58	25.21	25.76