

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: P866039

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-25L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

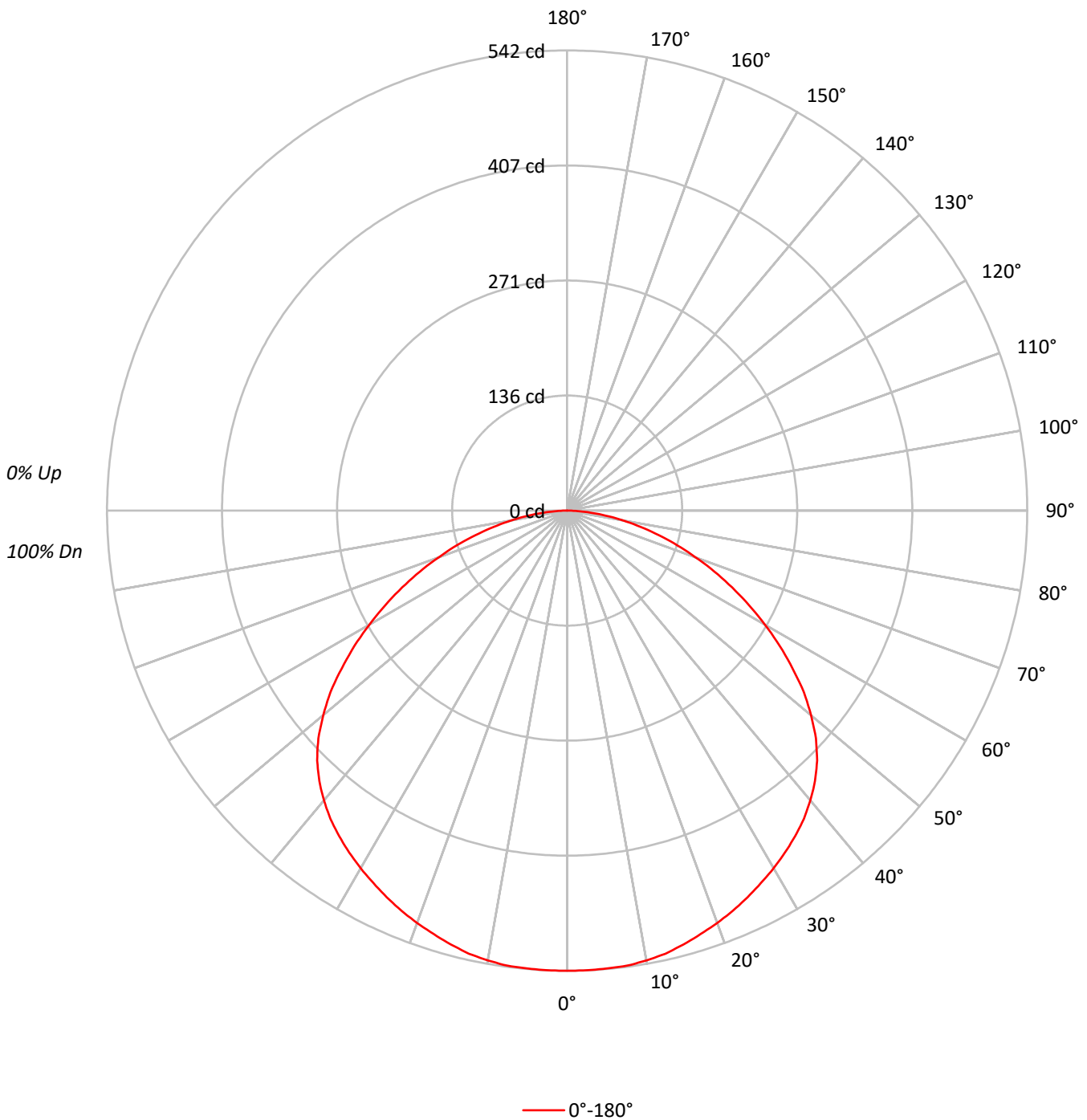
Lumens per Lamp: N/A
Luminaire Lumens: 1699.2 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4599
5°	4612
10°	4636
15°	4648
20°	4668
25°	4707
30°	4766
35°	4849
40°	4937
45°	4998
50°	4952
55°	4798
60°	4571
65°	4305
70°	3990
75°	3669
80°	3250
85°	2639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4998 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.0
10°-20°	149.5	8.8
20°-30°	232.1	13.7
30°-40°	293.1	17.3
40°-50°	320.0	18.8
50°-60°	289.5	17.0
60°-70°	212.4	12.5
70°-80°	118.7	7.0
80°-90°	32.3	1.9
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°	433.2	25.5
0°-40°	726.3	42.7
0°-60°	1335.8	78.6
0°-90°	1699.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	542	
5°	541	52
15°	529	150
25°	503	232
35°	468	293
45°	416	320
55°	324	290
65°	214	212
75°	112	119
85°	27	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	542.0
2.5°	542.0
5°	541.4
7.5°	540.7
10°	538.0
12.5°	534.6
15°	529.1
17.5°	523.0
20°	516.9
22.5°	510.1
25°	502.7
27.5°	494.5
30°	486.4
32.5°	477.6
35°	468.1
37.5°	457.9
40°	445.7
42.5°	432.1
45°	416.5
47.5°	397.5
50°	375.1
52.5°	351.4
55°	324.3
57.5°	297.1
60°	269.3
62.5°	241.5
65°	214.4
67.5°	187.9
70°	160.8
72.5°	136.4
75°	111.9
77.5°	88.2
80°	66.5
82.5°	46.1
85°	27.1
87.5°	12.2
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	17.70	19.36	18.06	19.68	19.99	17.70	19.36	18.06	19.68	19.99
	3H	19.39	20.90	19.77	21.22	21.58	19.39	20.90	19.77	21.22	21.58
	4H	20.02	21.44	20.42	21.78	22.16	20.02	21.44	20.42	21.78	22.16
	6H	20.47	21.79	20.88	22.15	22.54	20.47	21.79	20.88	22.15	22.54
	8H	20.62	21.87	21.04	22.26	22.66	20.62	21.87	21.04	22.26	22.66
	12H	20.71	21.91	21.14	22.29	22.72	20.71	21.91	21.14	22.29	22.72
4H	2H	18.30	19.72	18.70	20.07	20.44	18.30	19.72	18.70	20.07	20.44
	3H	20.21	21.40	20.62	21.80	22.20	20.21	21.40	20.62	21.80	22.20
	4H	20.97	22.04	21.40	22.46	22.89	20.97	22.04	21.40	22.46	22.89
	6H	21.55	22.49	22.00	22.93	23.38	21.55	22.49	22.00	22.93	23.38
	8H	21.74	22.62	22.20	23.06	23.53	21.74	22.62	22.20	23.06	23.53
	12H	21.87	22.66	22.35	23.14	23.61	21.87	22.66	22.35	23.14	23.61
8H	4H	21.27	22.15	21.72	22.59	23.05	21.27	22.15	21.72	22.59	23.05
	6H	21.96	22.70	22.45	23.18	23.66	21.96	22.70	22.45	23.18	23.66
	8H	22.22	22.88	22.73	23.38	23.87	22.22	22.88	22.73	23.38	23.87
	12H	22.42	23.00	22.92	23.49	24.05	22.42	23.00	22.92	23.49	24.05
12H	4H	21.30	22.09	21.78	22.56	23.03	21.30	22.09	21.78	22.56	23.03
	6H	22.01	22.67	22.52	23.18	23.66	22.01	22.67	22.52	23.18	23.66
	8H	22.33	22.91	22.83	23.40	23.96	22.33	22.91	22.83	23.40	23.96