

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: P866741

Luminaire Tested: PRLX-2001-L-930-133L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-133L-L-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

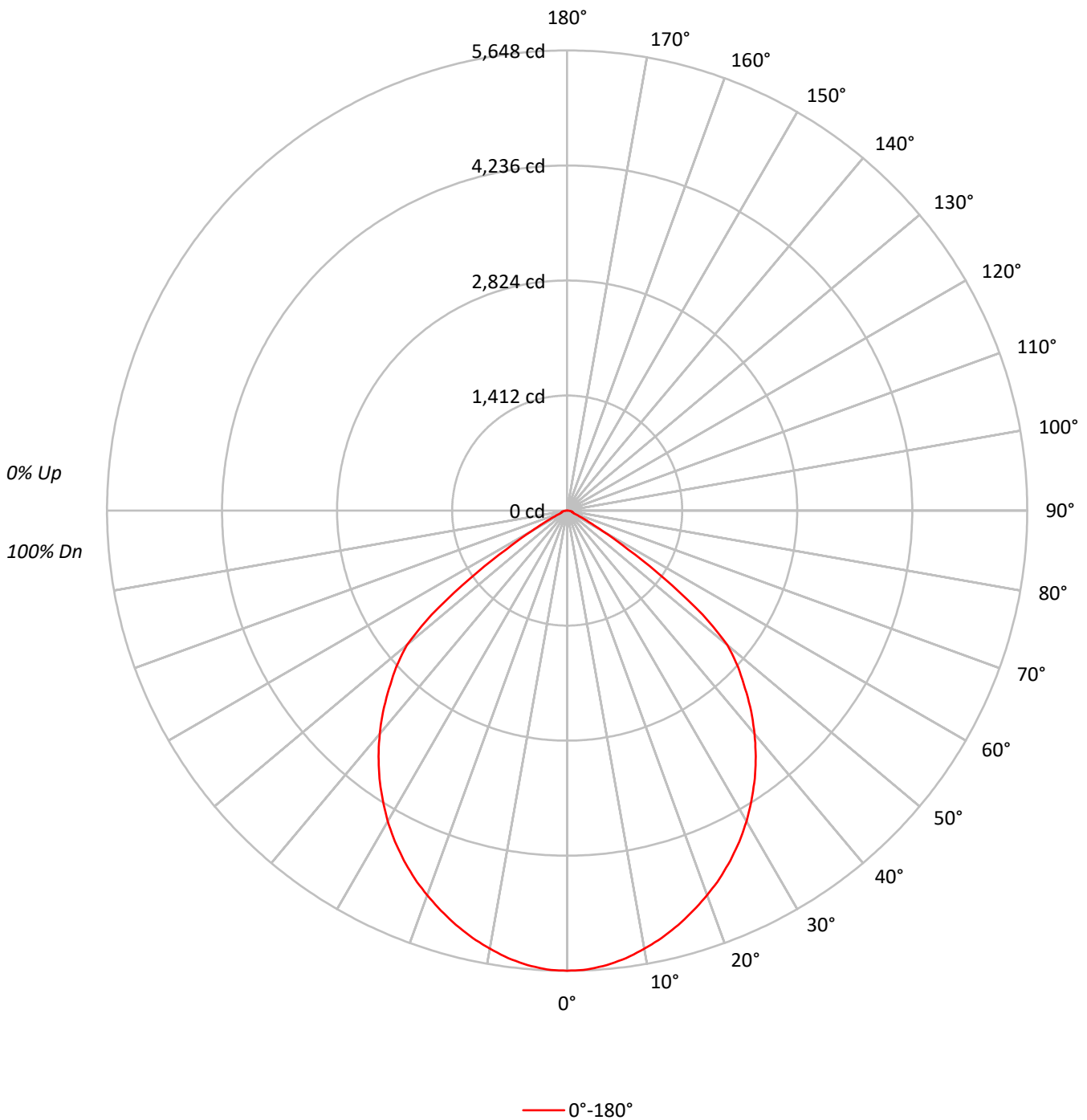
Lumens per Lamp: N/A
Luminaire Lumens: 10706.5 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	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°	30878
5°	30731
10°	30312
15°	29801
20°	29231
25°	28583
30°	27794
35°	26791
40°	25537
45°	23894
50°	21842
55°	13860
60°	5497
65°	2103
70°	1272
75°	1388
80°	1562
85°	1737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23894 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.1	5.0
10°-20°	1483.9	13.9
20°-30°	2181.1	20.4
30°-40°	2506.2	23.4
40°-50°	2381.1	22.2
50°-60°	1320.2	12.3
60°-70°	206.1	1.9
70°-80°	69.1	0.6
80°-90°	28.7	0.3
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°	4195.1	39.2
0°-40°	6701.3	62.6
0°-60°	10402.6	97.2
0°-90°	10706.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10706.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5648	
5°	5600	530
15°	5266	1484
25°	4738	2181
35°	4014	2506
45°	3091	2381
55°	1454	1320
65°	163	206
75°	66	69
85°	28	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5648.3
2.5°	5639.1
5°	5599.9
7.5°	5541.1
10°	5460.4
12.5°	5371.6
15°	5265.5
17.5°	5149.0
20°	5024.5
22.5°	4889.5
25°	4738.5
27.5°	4579.3
30°	4402.9
32.5°	4213.8
35°	4014.3
37.5°	3803.2
40°	3578.4
42.5°	3344.3
45°	3090.6
47.5°	2844.9
50°	2568.2
52.5°	2096.5
55°	1454.2
57.5°	884.5
60°	502.8
62.5°	298.7
65°	162.6
67.5°	88.8
70°	79.6
72.5°	72.7
75°	65.7
77.5°	58.8
80°	49.6
82.5°	39.2
85°	27.7
87.5°	13.8
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	17.54	18.92	17.91	19.23	19.55	17.54	18.92	17.91	19.23	19.55
	3H	17.48	18.69	17.86	19.02	19.39	17.48	18.69	17.86	19.02	19.39
	4H	17.46	18.58	17.86	18.93	19.32	17.46	18.58	17.86	18.93	19.32
	6H	17.45	18.48	17.86	18.85	19.24	17.45	18.48	17.86	18.85	19.24
	8H	17.44	18.41	17.86	18.80	19.21	17.44	18.41	17.86	18.80	19.21
	12H	17.42	18.36	17.86	18.74	19.17	17.42	18.36	17.86	18.74	19.17
4H	2H	17.41	18.54	17.82	18.89	19.27	17.41	18.54	17.82	18.89	19.27
	3H	17.38	18.29	17.80	18.69	19.09	17.38	18.29	17.80	18.69	19.09
	4H	17.37	18.18	17.81	18.60	19.04	17.37	18.18	17.81	18.60	19.04
	6H	17.40	18.09	17.86	18.54	19.01	17.40	18.09	17.86	18.54	19.01
	8H	17.40	18.05	17.87	18.49	18.96	17.40	18.05	17.87	18.49	18.96
	12H	17.40	17.98	17.89	18.46	18.94	17.40	17.98	17.89	18.46	18.94
8H	4H	17.28	17.93	17.75	18.38	18.85	17.28	17.93	17.75	18.38	18.85
	6H	17.32	17.86	17.83	18.36	18.84	17.32	17.86	17.83	18.36	18.84
	8H	17.34	17.83	17.86	18.34	18.84	17.34	17.83	17.86	18.34	18.84
	12H	17.38	17.82	17.90	18.31	18.88	17.38	17.82	17.90	18.31	18.88
12H	4H	17.25	17.82	17.73	18.30	18.78	17.25	17.82	17.73	18.30	18.78
	6H	17.28	17.77	17.80	18.28	18.77	17.28	17.77	17.80	18.28	18.77
	8H	17.33	17.77	17.85	18.26	18.83	17.33	17.77	17.85	18.26	18.83