

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: P865957

Luminaire Tested: PRLX-2001-M-930-07L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-07L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

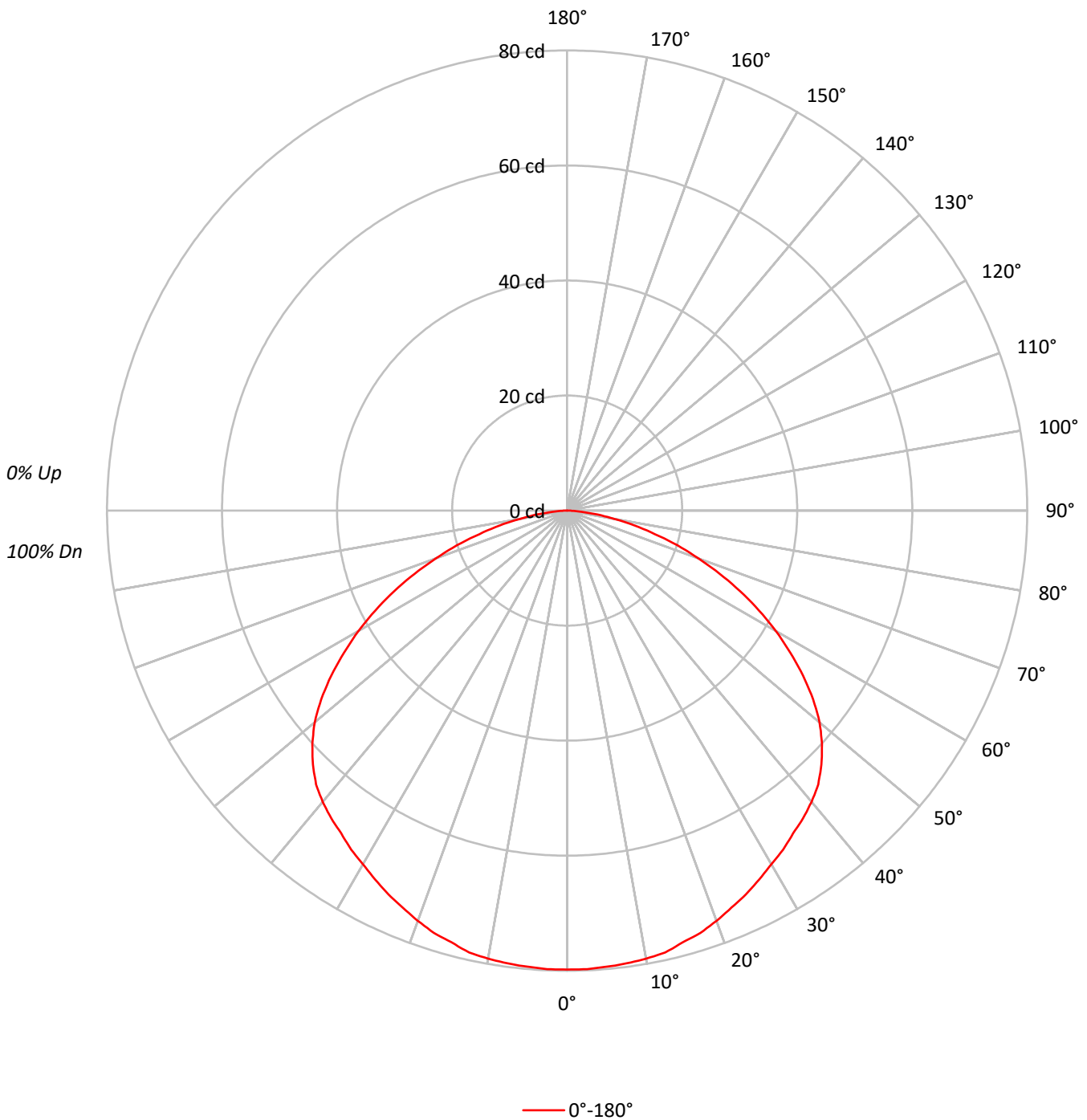
Lumens per Lamp: N/A
Luminaire Lumens: 252.5 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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: 0.333 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	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	59	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	46	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	677
5°	678
10°	682
15°	683
20°	685
25°	689
30°	696
35°	710
40°	732
45°	750
50°	756
55°	741
60°	711
65°	667
70°	600
75°	518
80°	410
85°	253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 756 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	3.0
10°-20°	22.0	8.7
20°-30°	34.0	13.5
30°-40°	43.0	17.0
40°-50°	48.1	19.0
50°-60°	44.6	17.7
60°-70°	32.8	13.0
70°-80°	16.9	6.7
80°-90°	3.5	1.4
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°	63.5	25.2
0°-40°	106.6	42.2
0°-60°	199.3	78.9
0°-90°	252.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	252.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	80	
5°	80	8
15°	78	22
25°	74	34
35°	68	43
45°	62	48
55°	50	45
65°	33	33
75°	16	17
85°	3	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	79.8
2.5°	79.8
5°	79.6
7.5°	79.4
10°	79.1
12.5°	78.7
15°	77.7
17.5°	77.0
20°	75.9
22.5°	74.7
25°	73.6
27.5°	72.3
30°	71.0
32.5°	69.9
35°	68.5
37.5°	67.4
40°	66.1
42.5°	64.6
45°	62.5
47.5°	60.1
50°	57.3
52.5°	53.9
55°	50.1
57.5°	46.0
60°	41.9
62.5°	37.6
65°	33.2
67.5°	28.7
70°	24.2
72.5°	20.1
75°	15.8
77.5°	12.0
80°	8.4
82.5°	5.3
85°	2.6
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	11.36	13.03	11.72	13.34	13.65	11.36	13.03	11.72	13.34	13.65
	3H	13.00	14.50	13.37	14.83	15.19	13.00	14.50	13.37	14.83	15.19
	4H	13.54	14.96	13.94	15.31	15.68	13.54	14.96	13.94	15.31	15.68
	6H	13.89	15.20	14.30	15.56	15.96	13.89	15.20	14.30	15.56	15.96
	8H	13.97	15.22	14.39	15.61	16.01	13.97	15.22	14.39	15.61	16.01
	12H	14.00	15.21	14.43	15.59	16.02	14.00	15.21	14.43	15.59	16.02
4H	2H	11.96	13.38	12.36	13.73	14.11	11.96	13.38	12.36	13.73	14.11
	3H	13.80	14.99	14.21	15.39	15.79	13.80	14.99	14.21	15.39	15.79
	4H	14.46	15.53	14.89	15.95	16.38	14.46	15.53	14.89	15.95	16.38
	6H	14.90	15.84	15.36	16.28	16.74	14.90	15.84	15.36	16.28	16.74
	8H	15.02	15.89	15.48	16.33	16.80	15.02	15.89	15.48	16.33	16.80
	12H	15.07	15.86	15.55	16.34	16.81	15.07	15.86	15.55	16.34	16.81
8H	4H	14.71	15.59	15.17	16.03	16.49	14.71	15.59	15.17	16.03	16.49
	6H	15.24	15.97	15.73	16.45	16.93	15.24	15.97	15.73	16.45	16.93
	8H	15.40	16.05	15.90	16.55	17.04	15.40	16.05	15.90	16.55	17.04
	12H	15.49	16.07	16.00	16.56	17.12	15.49	16.07	16.00	16.56	17.12
12H	4H	14.73	15.52	15.21	15.99	16.46	14.73	15.52	15.21	15.99	16.46
	6H	15.26	15.92	15.77	16.42	16.91	15.26	15.92	15.77	16.42	16.91
	8H	15.46	16.04	15.97	16.53	17.09	15.46	16.04	15.97	16.53	17.09