

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: P865966

Luminaire Tested: PRLX-2001-M-930-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-15L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

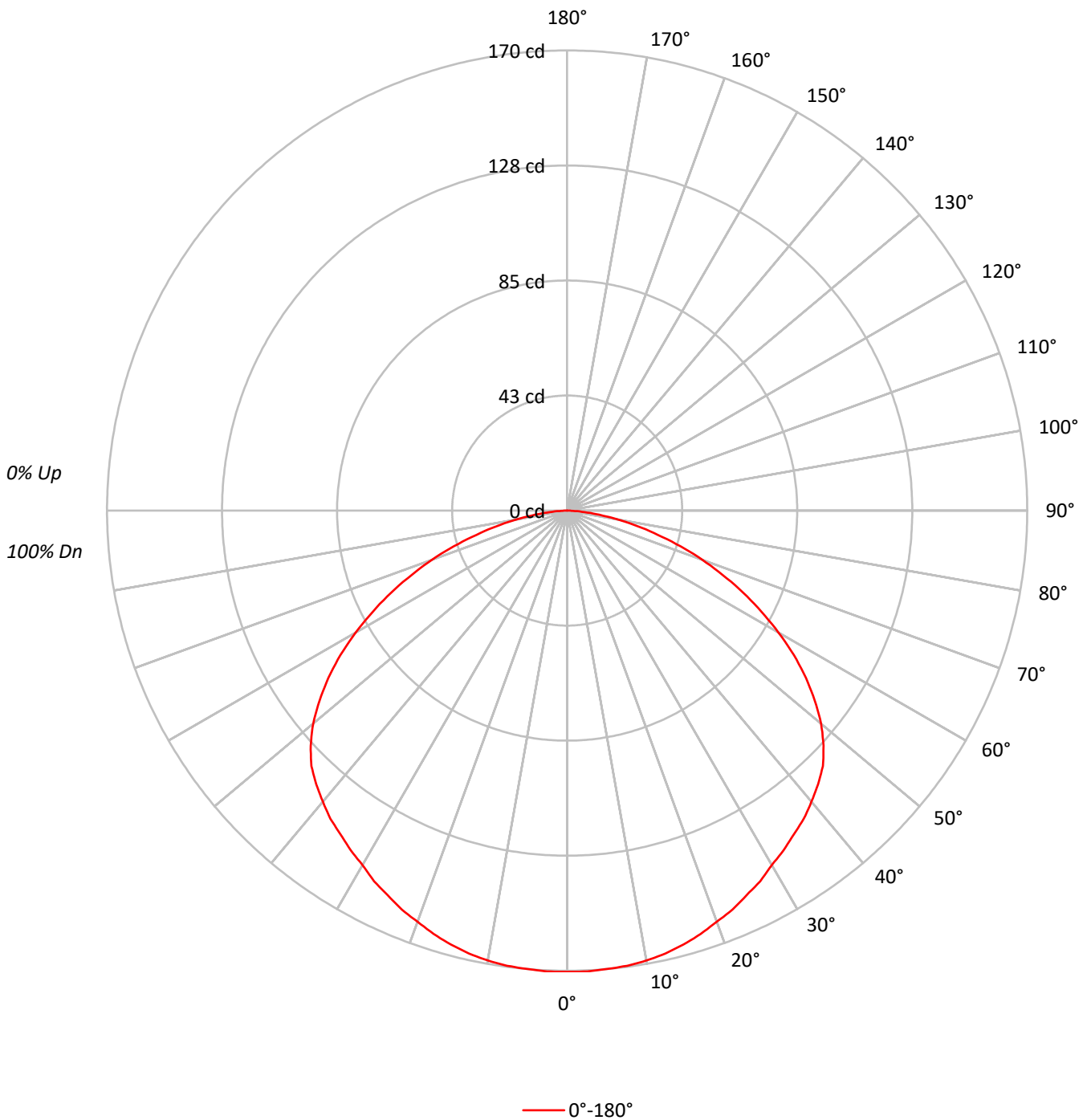
Lumens per Lamp: N/A
Luminaire Lumens: 541.8 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	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	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1446
5°	1448
10°	1455
15°	1458
20°	1459
25°	1468
30°	1482
35°	1512
40°	1555
45°	1603
50°	1617
55°	1593
60°	1531
65°	1442
70°	1317
75°	1138
80°	919
85°	623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1617 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	3.0
10°-20°	46.9	8.7
20°-30°	72.4	13.4
30°-40°	91.6	16.9
40°-50°	102.6	18.9
50°-60°	95.9	17.7
60°-70°	70.9	13.1
70°-80°	37.2	6.9
80°-90°	8.1	1.5
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°	135.5	25.0
0°-40°	227.1	41.9
0°-60°	425.6	78.5
0°-90°	541.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	541.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	170	
5°	170	16
15°	166	47
25°	157	72
35°	146	92
45°	134	103
55°	108	96
65°	72	71
75°	35	37
85°	6	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	170.4
2.5°	170.4
5°	170.0
7.5°	169.6
10°	168.8
12.5°	167.6
15°	166.0
17.5°	164.0
20°	161.6
22.5°	159.6
25°	156.8
27.5°	154.4
30°	151.2
32.5°	148.8
35°	146.0
37.5°	143.6
40°	140.4
42.5°	137.2
45°	133.6
47.5°	128.5
50°	122.5
52.5°	115.3
55°	107.7
57.5°	99.3
60°	90.2
62.5°	81.0
65°	71.8
67.5°	62.2
70°	53.1
72.5°	43.9
75°	34.7
77.5°	26.7
80°	18.8
82.5°	12.0
85°	6.4
87.5°	2.0
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	14.05	15.72	14.41	16.03	16.35	14.05	15.72	14.41	16.03	16.35
	3H	15.71	17.22	16.08	17.55	17.91	15.71	17.22	16.08	17.55	17.91
	4H	16.27	17.69	16.67	18.04	18.42	16.27	17.69	16.67	18.04	18.42
	6H	16.63	17.95	17.04	18.32	18.71	16.63	17.95	17.04	18.32	18.71
	8H	16.72	17.98	17.14	18.37	18.77	16.72	17.98	17.14	18.37	18.77
	12H	16.77	17.97	17.19	18.36	18.78	16.77	17.97	17.19	18.36	18.78
4H	2H	14.65	16.08	15.05	16.43	16.80	14.65	16.08	15.05	16.43	16.80
	3H	16.52	17.72	16.93	18.11	18.51	16.52	17.72	16.93	18.11	18.51
	4H	17.20	18.27	17.63	18.69	19.12	17.20	18.27	17.63	18.69	19.12
	6H	17.66	18.61	18.12	19.05	19.50	17.66	18.61	18.12	19.05	19.50
	8H	17.79	18.67	18.25	19.11	19.57	17.79	18.67	18.25	19.11	19.57
	12H	17.86	18.65	18.34	19.13	19.59	17.86	18.65	18.34	19.13	19.59
8H	4H	17.46	18.34	17.92	18.78	19.24	17.46	18.34	17.92	18.78	19.24
	6H	18.01	18.75	18.51	19.23	19.71	18.01	18.75	18.51	19.23	19.71
	8H	18.18	18.84	18.69	19.35	19.83	18.18	18.84	18.69	19.35	19.83
	12H	18.30	18.88	18.81	19.37	19.93	18.30	18.88	18.81	19.37	19.93
12H	4H	17.48	18.27	17.96	18.74	19.21	17.48	18.27	17.96	18.74	19.21
	6H	18.04	18.70	18.55	19.21	19.69	18.04	18.70	18.55	19.21	19.69
	8H	18.26	18.84	18.76	19.33	19.89	18.26	18.84	18.76	19.33	19.89