

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: P865469

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-15L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

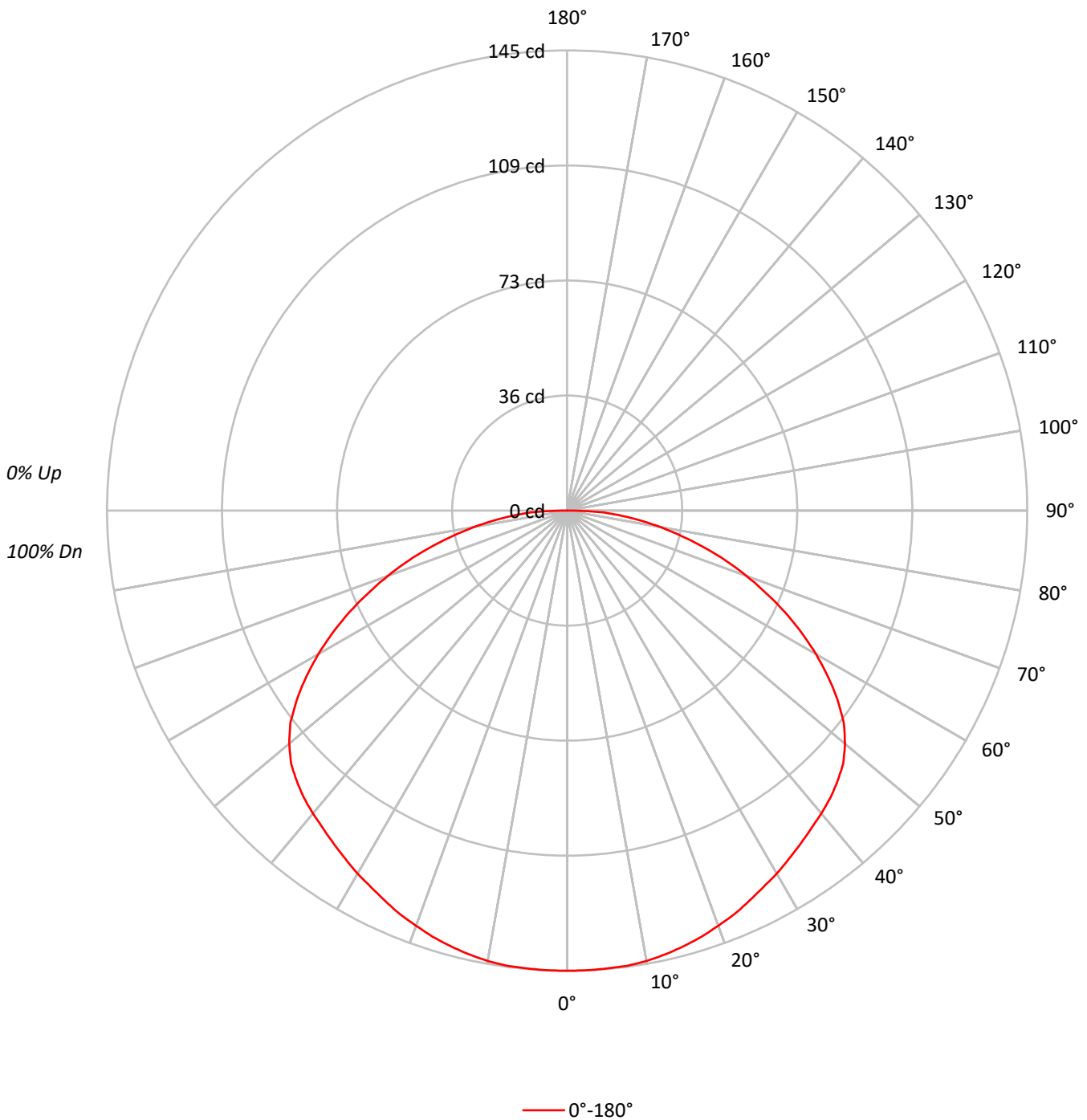
Lumens per Lamp: N/A
Luminaire Lumens: 522.0 lumens
Efficiency: N/A
Efficacy: 33.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	89		91	89	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	72	64	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36		48	41	36		47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32		44	37	31		43	36	31	29
8	58	43	35	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	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2365
5°	2371
10°	2387
15°	2399
20°	2416
25°	2442
30°	2488
35°	2553
40°	2653
45°	2779
50°	2900
55°	2957
60°	2955
65°	2921
70°	2866
75°	2804
80°	2780
85°	3032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 3889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	2.6
10°-20°	40.2	7.7
20°-30°	62.7	12.0
30°-40°	80.5	15.4
40°-50°	93.0	17.8
50°-60°	92.6	17.7
60°-70°	74.7	14.3
70°-80°	47.1	9.0
80°-90°	17.4	3.3
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°	116.7	22.4
0°-40°	197.2	37.8
0°-60°	382.7	73.3
0°-90°	522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	145	
5°	145	14
15°	142	40
25°	136	63
35°	128	80
45°	120	93
55°	104	93
65°	76	75
75°	44	47
85°	16	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	145.0
2.5°	145.0
5°	144.8
7.5°	144.7
10°	144.1
12.5°	143.2
15°	142.1
17.5°	140.8
20°	139.2
22.5°	137.7
25°	135.7
27.5°	133.8
30°	132.1
32.5°	130.1
35°	128.2
37.5°	126.3
40°	124.6
42.5°	122.8
45°	120.5
47.5°	118.0
50°	114.3
52.5°	109.9
55°	104.0
57.5°	97.5
60°	90.6
62.5°	83.2
65°	75.7
67.5°	67.7
70°	60.1
72.5°	52.4
75°	44.5
77.5°	36.9
80°	29.6
82.5°	22.6
85°	16.2
87.5°	10.4
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	16.25	17.98	16.61	18.30	18.61	16.25	17.98	16.61	18.30	18.61
	3H	18.26	19.84	18.63	20.16	20.52	18.26	19.84	18.63	20.16	20.52
	4H	19.07	20.56	19.47	20.91	21.28	19.07	20.56	19.47	20.91	21.28
	6H	19.74	21.13	20.15	21.49	21.88	19.74	21.13	20.15	21.49	21.88
	8H	20.00	21.33	20.42	21.72	22.12	20.00	21.33	20.42	21.72	22.12
	12H	20.23	21.51	20.66	21.89	22.31	20.23	21.51	20.66	21.89	22.31
4H	2H	16.95	18.45	17.35	18.79	19.17	16.95	18.45	17.35	18.79	19.17
	3H	19.19	20.46	19.60	20.85	21.25	19.19	20.46	19.60	20.85	21.25
	4H	20.15	21.30	20.58	21.71	22.14	20.15	21.30	20.58	21.71	22.14
	6H	20.97	21.98	21.42	22.42	22.87	20.97	21.98	21.42	22.42	22.87
	8H	21.30	22.25	21.76	22.69	23.15	21.30	22.25	21.76	22.69	23.15
	12H	21.60	22.46	22.07	22.93	23.39	21.60	22.46	22.07	22.93	23.39
8H	4H	20.54	21.49	21.00	21.93	22.40	20.54	21.49	21.00	21.93	22.40
	6H	21.52	22.32	22.01	22.80	23.28	21.52	22.32	22.01	22.80	23.28
	8H	21.95	22.67	22.46	23.17	23.66	21.95	22.67	22.46	23.17	23.66
	12H	22.37	23.01	22.87	23.49	24.05	22.37	23.01	22.87	23.49	24.05
12H	4H	20.61	21.47	21.08	21.94	22.41	20.61	21.47	21.08	21.94	22.41
	6H	21.62	22.34	22.12	22.84	23.33	21.62	22.34	22.12	22.84	23.33
	8H	22.13	22.77	22.63	23.26	23.81	22.13	22.77	22.63	23.26	23.81