

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: P866029

Luminaire Tested: PRLX-2001-M-935-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866029
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-935-15L-G-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

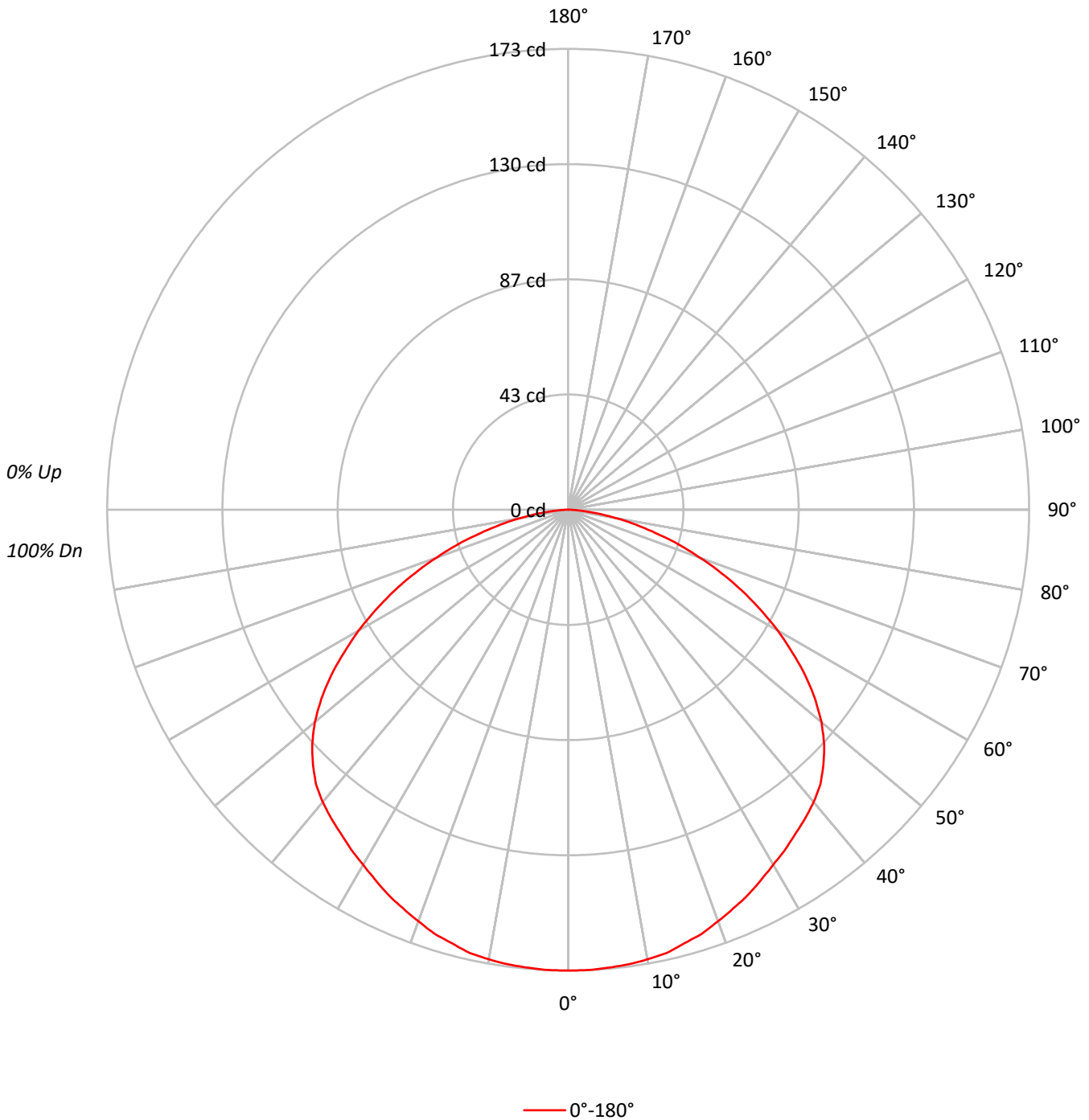
Lumens per Lamp: N/A
Luminaire Lumens: 547.3 lumens
Efficiency: N/A
Efficacy: 39.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	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	46	40	67	55	46	40	53	45	39		51	44	39		49	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°	1468
5°	1470
10°	1477
15°	1480
20°	1485
25°	1494
30°	1508
35°	1539
40°	1587
45°	1626
50°	1638
55°	1608
60°	1541
65°	1446
70°	1303
75°	1121
80°	894
85°	555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	3.0
10°-20°	47.6	8.7
20°-30°	73.6	13.5
30°-40°	93.3	17.0
40°-50°	104.2	19.0
50°-60°	96.8	17.7
60°-70°	71.1	13.0
70°-80°	36.7	6.7
80°-90°	7.6	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°	137.7	25.2
0°-40°	231.0	42.2
0°-60°	432.0	78.9
0°-90°	547.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	547.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	173	
5°	173	16
15°	168	48
25°	160	74
35°	149	93
45°	136	104
55°	109	97
65°	72	71
75°	34	37
85°	6	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	173.0
2.5°	173.0
5°	172.6
7.5°	172.2
10°	171.4
12.5°	170.5
15°	168.5
17.5°	166.9
20°	164.4
22.5°	162.0
25°	159.6
27.5°	156.7
30°	153.9
32.5°	151.4
35°	148.6
37.5°	146.1
40°	143.3
42.5°	140.0
45°	135.5
47.5°	130.3
50°	124.1
52.5°	116.8
55°	108.7
57.5°	99.7
60°	90.8
62.5°	81.4
65°	72.0
67.5°	62.3
70°	52.5
72.5°	43.6
75°	34.2
77.5°	26.1
80°	18.3
82.5°	11.4
85°	5.7
87.5°	1.6
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	14.04	15.71	14.41	16.03	16.34	14.04	15.71	14.41	16.03	16.34
	3H	15.69	17.19	16.06	17.52	17.88	15.69	17.19	16.06	17.52	17.88
	4H	16.23	17.65	16.63	18.00	18.37	16.23	17.65	16.63	18.00	18.37
	6H	16.58	17.89	16.99	18.26	18.65	16.58	17.89	16.99	18.26	18.65
	8H	16.66	17.92	17.08	18.30	18.70	16.66	17.92	17.08	18.30	18.70
	12H	16.69	17.90	17.12	18.28	18.71	16.69	17.90	17.12	18.28	18.71
4H	2H	14.65	16.07	15.05	16.42	16.79	14.65	16.07	15.05	16.42	16.79
	3H	16.49	17.68	16.90	18.08	18.48	16.49	17.68	16.90	18.08	18.48
	4H	17.15	18.22	17.58	18.63	19.07	17.15	18.22	17.58	18.63	19.07
	6H	17.60	18.53	18.05	18.97	19.43	17.60	18.53	18.05	18.97	19.43
	8H	17.71	18.58	18.17	19.03	19.49	17.71	18.58	18.17	19.03	19.49
	12H	17.77	18.55	18.25	19.03	19.50	17.77	18.55	18.25	19.03	19.50
8H	4H	17.40	18.28	17.86	18.72	19.18	17.40	18.28	17.86	18.72	19.18
	6H	17.93	18.66	18.43	19.15	19.62	17.93	18.66	18.43	19.15	19.62
	8H	18.09	18.74	18.60	19.25	19.73	18.09	18.74	18.60	19.25	19.73
	12H	18.18	18.76	18.69	19.25	19.81	18.18	18.76	18.69	19.25	19.81
12H	4H	17.42	18.21	17.90	18.68	19.15	17.42	18.21	17.90	18.68	19.15
	6H	17.96	18.61	18.47	19.12	19.60	17.96	18.61	18.47	19.12	19.60
	8H	18.15	18.73	18.66	19.22	19.78	18.15	18.73	18.66	19.22	19.78