

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: P866030

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866030
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: Pentalux
Catalog Number: PRLX-2001-M-935-15L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

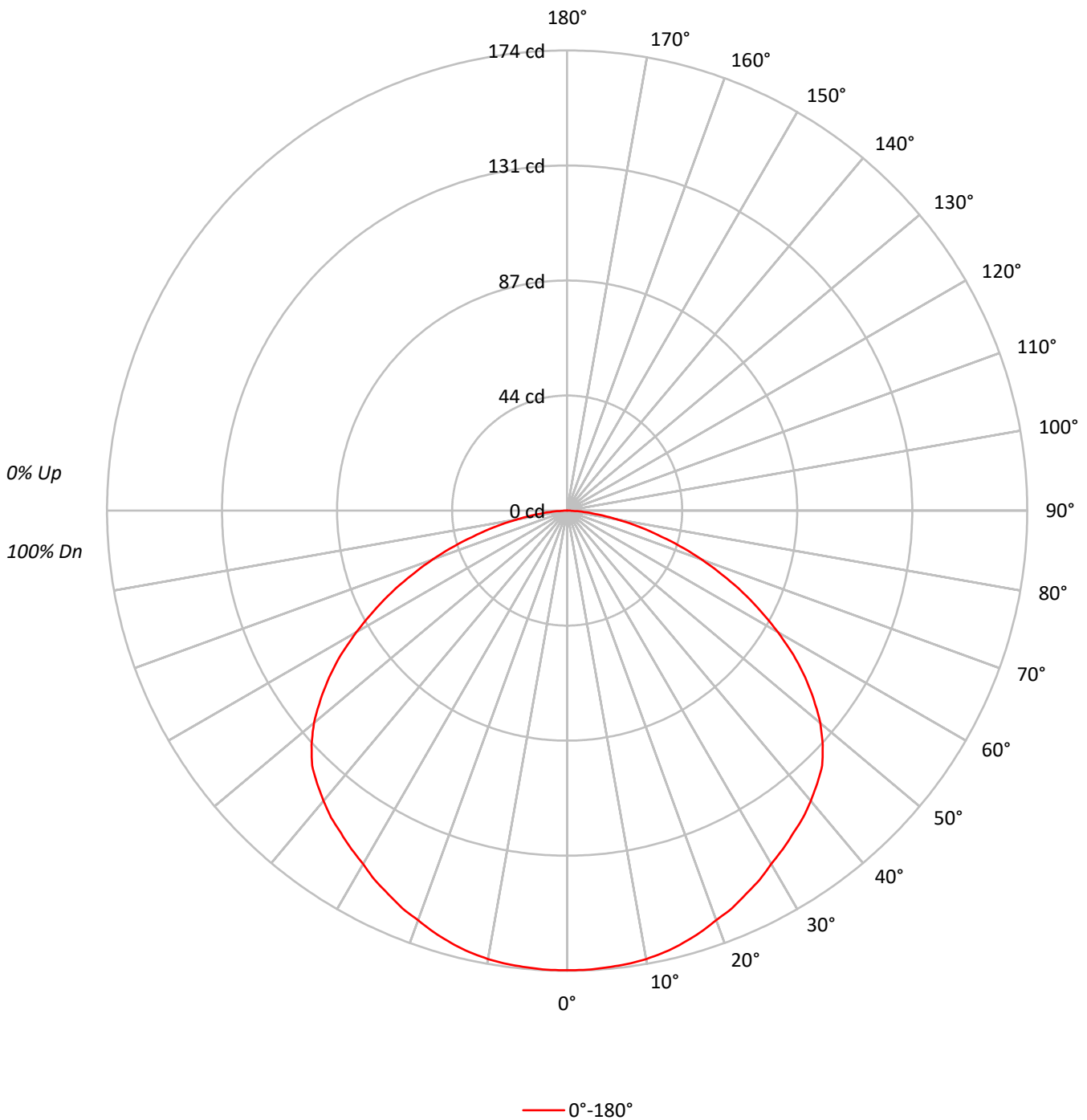
Lumens per Lamp: N/A
Luminaire Lumens: 552.7 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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°	1475
5°	1477
10°	1484
15°	1487
20°	1488
25°	1498
30°	1512
35°	1544
40°	1587
45°	1637
50°	1650
55°	1626
60°	1561
65°	1472
70°	1342
75°	1161
80°	933
85°	633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1650 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.5	3.0
10°-20°	47.8	8.6
20°-30°	73.9	13.4
30°-40°	93.5	16.9
40°-50°	104.7	18.9
50°-60°	97.8	17.7
60°-70°	72.3	13.1
70°-80°	38.0	6.9
80°-90°	8.2	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°	138.2	25.0
0°-40°	231.7	41.9
0°-60°	434.2	78.6
0°-90°	552.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	174	
5°	173	17
15°	169	48
25°	160	74
35°	149	93
45°	136	105
55°	110	98
65°	73	72
75°	35	38
85°	6	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	173.8
2.5°	173.8
5°	173.4
7.5°	173.0
10°	172.2
12.5°	171.0
15°	169.3
17.5°	167.3
20°	164.8
22.5°	162.8
25°	160.0
27.5°	157.5
30°	154.3
32.5°	151.8
35°	149.0
37.5°	146.5
40°	143.3
42.5°	140.0
45°	136.4
47.5°	131.1
50°	125.0
52.5°	117.6
55°	109.9
57.5°	101.4
60°	92.0
62.5°	82.6
65°	73.3
67.5°	63.5
70°	54.1
72.5°	44.8
75°	35.4
77.5°	27.3
80°	19.1
82.5°	12.2
85°	6.5
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	14.12	15.79	14.49	16.11	16.42	14.12	15.79	14.49	16.11	16.42
	3H	15.78	17.29	16.16	17.62	17.98	15.78	17.29	16.16	17.62	17.98
	4H	16.34	17.77	16.74	18.11	18.49	16.34	17.77	16.74	18.11	18.49
	6H	16.70	18.02	17.11	18.39	18.78	16.70	18.02	17.11	18.39	18.78
	8H	16.79	18.05	17.22	18.44	18.84	16.79	18.05	17.22	18.44	18.84
	12H	16.84	18.04	17.26	18.43	18.85	16.84	18.04	17.26	18.43	18.85
4H	2H	14.73	16.15	15.13	16.50	16.88	14.73	16.15	15.13	16.50	16.88
	3H	16.60	17.79	17.00	18.19	18.59	16.60	17.79	17.00	18.19	18.59
	4H	17.27	18.35	17.70	18.76	19.19	17.27	18.35	17.70	18.76	19.19
	6H	17.73	18.68	18.19	19.12	19.57	17.73	18.68	18.19	19.12	19.57
	8H	17.86	18.74	18.32	19.18	19.64	17.86	18.74	18.32	19.18	19.64
	12H	17.93	18.72	18.41	19.19	19.66	17.93	18.72	18.41	19.19	19.66
8H	4H	17.53	18.41	17.99	18.85	19.32	17.53	18.41	17.99	18.85	19.32
	6H	18.08	18.82	18.58	19.30	19.78	18.08	18.82	18.58	19.30	19.78
	8H	18.25	18.91	18.76	19.41	19.90	18.25	18.91	18.76	19.41	19.90
	12H	18.37	18.95	18.87	19.44	20.00	18.37	18.95	18.87	19.44	20.00
12H	4H	17.55	18.34	18.03	18.81	19.28	17.55	18.34	18.03	18.81	19.28
	6H	18.11	18.77	18.62	19.28	19.76	18.11	18.77	18.62	19.28	19.76
	8H	18.33	18.91	18.83	19.40	19.95	18.33	18.91	18.83	19.40	19.95