

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: P866038

Luminaire Tested: PRLX-2001-M-935-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866038
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-935-25L-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 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

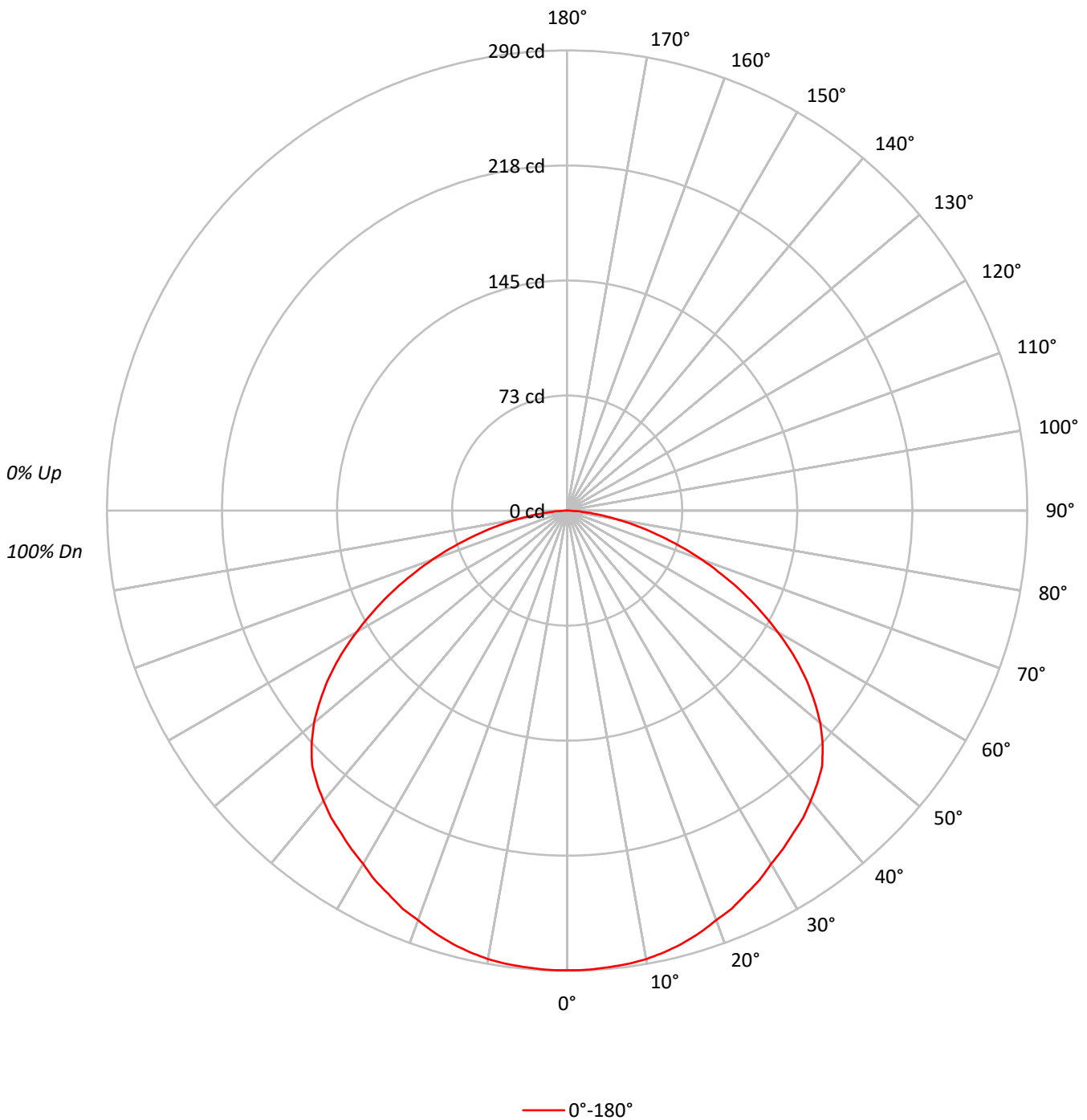
Lumens per Lamp: N/A
Luminaire Lumens: 921.2 lumens
Efficiency: N/A
Efficacy: 42.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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°	2458
5°	2462
10°	2473
15°	2479
20°	2481
25°	2496
30°	2519
35°	2572
40°	2645
45°	2728
50°	2750
55°	2710
60°	2602
65°	2452
70°	2238
75°	1934
80°	1559
85°	1061

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2750 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	3.0
10°-20°	79.7	8.6
20°-30°	123.2	13.4
30°-40°	155.8	16.9
40°-50°	174.4	18.9
50°-60°	163.0	17.7
60°-70°	120.5	13.1
70°-80°	63.3	6.9
80°-90°	13.8	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°	230.4	25.0
0°-40°	386.2	41.9
0°-60°	723.6	78.6
0°-90°	921.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	290	
5°	289	28
15°	282	80
25°	267	123
35°	248	156
45°	227	174
55°	183	163
65°	122	121
75°	59	63
85°	11	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	289.7
2.5°	289.7
5°	289.0
7.5°	288.3
10°	287.0
12.5°	284.9
15°	282.2
17.5°	278.8
20°	274.7
22.5°	271.4
25°	266.6
27.5°	262.5
30°	257.1
32.5°	253.0
35°	248.3
37.5°	244.2
40°	238.8
42.5°	233.4
45°	227.3
47.5°	218.4
50°	208.3
52.5°	196.1
55°	183.2
57.5°	168.9
60°	153.3
62.5°	137.7
65°	122.1
67.5°	105.8
70°	90.2
72.5°	74.6
75°	59.0
77.5°	45.5
80°	31.9
82.5°	20.4
85°	10.9
87.5°	3.4
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	15.89	17.56	16.26	17.88	18.19	15.89	17.56	16.26	17.88	18.19
	3H	17.55	19.07	17.93	19.39	19.75	17.55	19.07	17.93	19.39	19.75
	4H	18.11	19.54	18.51	19.88	20.26	18.11	19.54	18.51	19.88	20.26
	6H	18.48	19.80	18.89	20.16	20.55	18.48	19.80	18.89	20.16	20.55
	8H	18.57	19.83	18.99	20.22	20.61	18.57	19.83	18.99	20.22	20.61
	12H	18.61	19.82	19.04	20.20	20.63	18.61	19.82	19.04	20.20	20.63
4H	2H	16.50	17.92	16.90	18.27	18.65	16.50	17.92	16.90	18.27	18.65
	3H	18.37	19.56	18.78	19.96	20.36	18.37	19.56	18.78	19.96	20.36
	4H	19.04	20.12	19.47	20.53	20.97	19.04	20.12	19.47	20.53	20.97
	6H	19.51	20.45	19.96	20.89	21.34	19.51	20.45	19.96	20.89	21.34
	8H	19.63	20.51	20.09	20.95	21.42	19.63	20.51	20.09	20.95	21.42
	12H	19.70	20.50	20.18	20.97	21.44	19.70	20.50	20.18	20.97	21.44
8H	4H	19.30	20.18	19.76	20.62	21.09	19.30	20.18	19.76	20.62	21.09
	6H	19.86	20.59	20.35	21.08	21.55	19.86	20.59	20.35	21.08	21.55
	8H	20.03	20.68	20.54	21.19	21.67	20.03	20.68	20.54	21.19	21.67
	12H	20.14	20.72	20.65	21.21	21.77	20.14	20.72	20.65	21.21	21.77
12H	4H	19.32	20.11	19.80	20.59	21.06	19.32	20.11	19.80	20.59	21.06
	6H	19.89	20.54	20.39	21.05	21.53	19.89	20.54	20.39	21.05	21.53
	8H	20.10	20.68	20.61	21.17	21.73	20.10	20.68	20.61	21.17	21.73