

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: P866102

Luminaire Tested: PRLX-2001-M-940-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866102
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-940-25L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

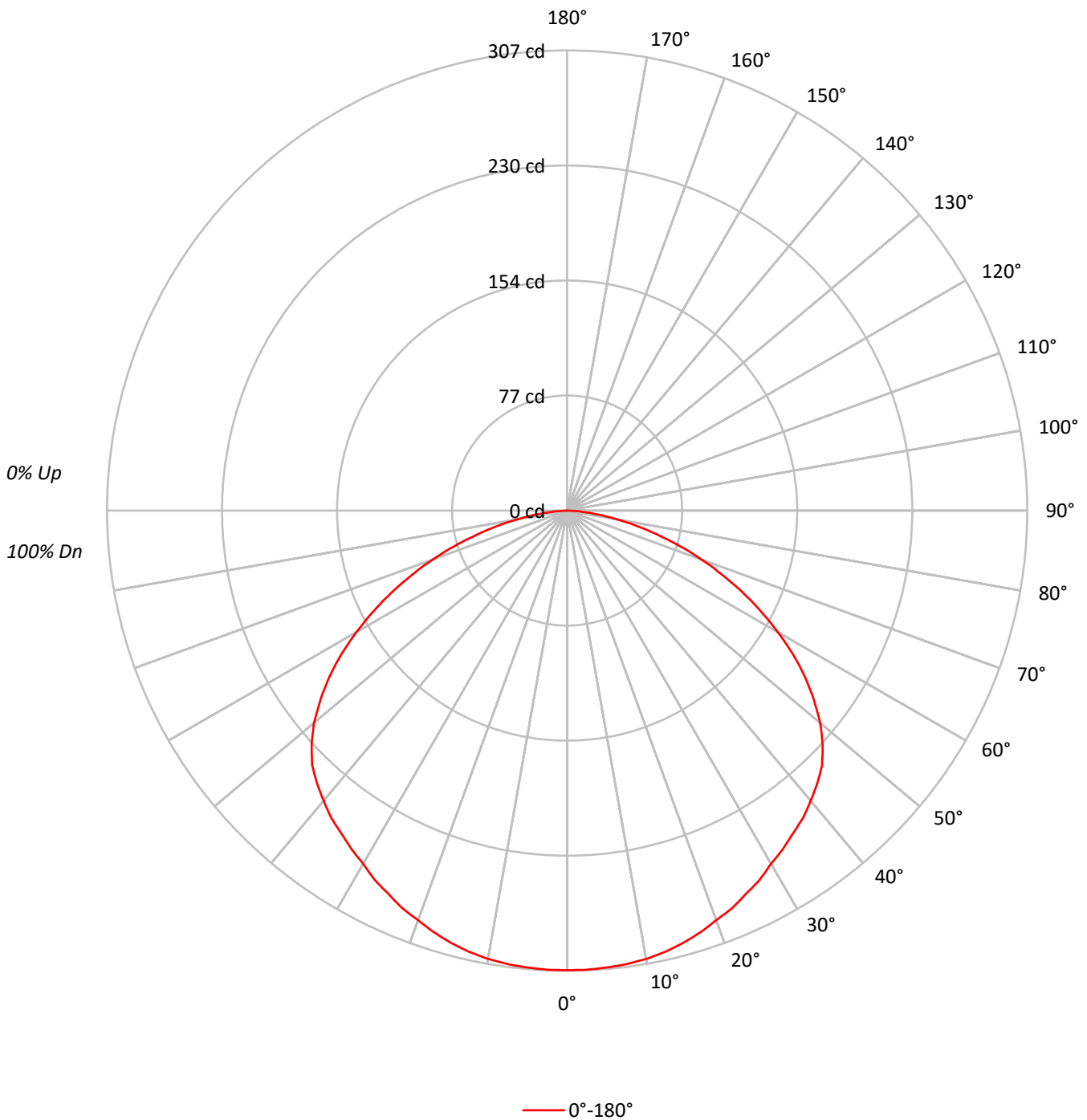
Lumens per Lamp: N/A
Luminaire Lumens: 975.0 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866102

CATALOG NUMBER: PRLX-2001-M-940-25L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866102

CATALOG NUMBER: PRLX-2001-M-940-25L-G-U-S-X-X-GREY-X

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°	2602
5°	2606
10°	2617
15°	2624
20°	2626
25°	2642
30°	2666
35°	2722
40°	2799
45°	2886
50°	2910
55°	2869
60°	2755
65°	2594
70°	2369
75°	2049
80°	1647
85°	1120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2910 cd/sqm

TEST NUMBER: P866102

CATALOG NUMBER: PRLX-2001-M-940-25L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	3.0
10°-20°	84.3	8.6
20°-30°	130.4	13.4
30°-40°	164.9	16.9
40°-50°	184.6	18.9
50°-60°	172.6	17.7
60°-70°	127.6	13.1
70°-80°	67.0	6.9
80°-90°	14.5	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°	243.8	25.0
0°-40°	408.7	41.9
0°-60°	765.9	78.6
0°-90°	975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	975.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	307	
5°	306	29
15°	299	84
25°	282	130
35°	263	165
45°	240	185
55°	194	173
65°	129	128
75°	62	67
85°	12	15
90°	0	

TEST NUMBER: P866102

CATALOG NUMBER: PRLX-2001-M-940-25L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	306.6
2.5°	306.6
5°	305.9
7.5°	305.2
10°	303.7
12.5°	301.6
15°	298.7
17.5°	295.1
20°	290.8
22.5°	287.2
25°	282.2
27.5°	277.9
30°	272.1
32.5°	267.8
35°	262.8
37.5°	258.5
40°	252.7
42.5°	247.0
45°	240.5
47.5°	231.2
50°	220.4
52.5°	207.5
55°	193.9
57.5°	178.8
60°	162.3
62.5°	145.8
65°	129.2
67.5°	112.0
70°	95.5
72.5°	79.0
75°	62.5
77.5°	48.1
80°	33.7
82.5°	21.5
85°	11.5
87.5°	3.6
90°	0.0



TEST NUMBER: P866102
 CATALOG NUMBER: PRLX-2001-M-940-25L-G-U-S-X-X-GREY-X

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	16.09	17.76	16.45	18.08	18.39	16.09	17.76	16.45	18.08	18.39
	3H	17.75	19.26	18.13	19.59	19.95	17.75	19.26	18.13	19.59	19.95
	4H	18.31	19.74	18.71	20.08	20.46	18.31	19.74	18.71	20.08	20.46
	6H	18.67	20.00	19.08	20.36	20.75	18.67	20.00	19.08	20.36	20.75
	8H	18.76	20.02	19.19	20.41	20.81	18.76	20.02	19.19	20.41	20.81
	12H	18.81	20.02	19.24	20.40	20.83	18.81	20.02	19.24	20.40	20.83
4H	2H	16.70	18.12	17.10	18.47	18.84	16.70	18.12	17.10	18.47	18.84
	3H	18.57	19.76	18.98	20.16	20.56	18.57	19.76	18.98	20.16	20.56
	4H	19.24	20.32	19.67	20.73	21.16	19.24	20.32	19.67	20.73	21.16
	6H	19.71	20.65	20.16	21.09	21.54	19.71	20.65	20.16	21.09	21.54
	8H	19.83	20.71	20.29	21.15	21.61	19.83	20.71	20.29	21.15	21.61
	12H	19.90	20.69	20.38	21.17	21.63	19.90	20.69	20.38	21.17	21.63
8H	4H	19.50	20.38	19.96	20.82	21.29	19.50	20.38	19.96	20.82	21.29
	6H	20.06	20.79	20.55	21.27	21.75	20.06	20.79	20.55	21.27	21.75
	8H	20.22	20.88	20.73	21.39	21.87	20.22	20.88	20.73	21.39	21.87
	12H	20.34	20.92	20.84	21.41	21.97	20.34	20.92	20.84	21.41	21.97
12H	4H	19.52	20.31	20.00	20.79	21.26	19.52	20.31	20.00	20.79	21.26
	6H	20.08	20.74	20.59	21.25	21.73	20.08	20.74	20.59	21.25	21.73
	8H	20.30	20.88	20.80	21.37	21.93	20.30	20.88	20.80	21.37	21.93