

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: P866738

Luminaire Tested: PRLX-2001-L-930-117L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-117L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

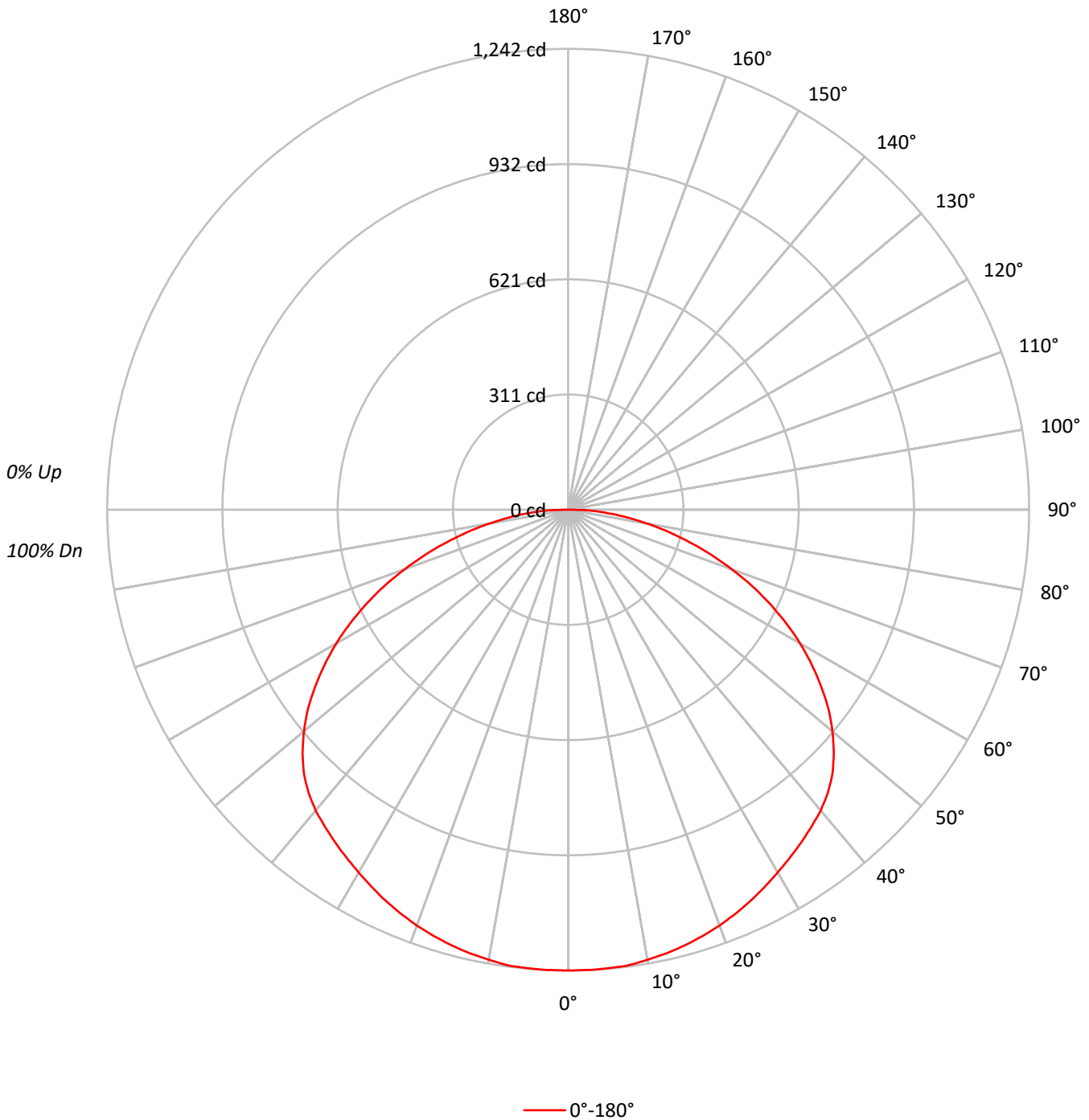
Lumens per Lamp: N/A
Luminaire Lumens: 4273.3 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: P866738

CATALOG NUMBER: PRLX-2001-L-930-117L-G-X-X-GREY-X

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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6788
5°	6809
10°	6837
15°	6879
20°	6937
25°	7016
30°	7126
35°	7306
40°	7553
45°	7786
50°	7905
55°	7939
60°	7895
65°	7751
70°	7485
75°	7169
80°	6816
85°	6762

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	2.8
10°-20°	343.6	8.0
20°-30°	537.0	12.6
30°-40°	686.5	16.1
40°-50°	774.5	18.1
50°-60°	743.2	17.4
60°-70°	591.9	13.9
70°-80°	359.4	8.4
80°-90°	119.1	2.8
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°	998.8	23.4
0°-40°	1685.3	39.4
0°-60°	3202.9	75.0
0°-90°	4273.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4273.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1242	
5°	1241	118
15°	1216	344
25°	1163	537
35°	1095	687
45°	1007	774
55°	833	743
65°	599	592
75°	339	359
85°	108	119
90°	0	

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CATALOG NUMBER: PRLX-2001-L-930-117L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1241.7
2.5°	1241.7
5°	1240.7
7.5°	1238.7
10°	1231.7
12.5°	1224.6
15°	1215.5
17.5°	1204.5
20°	1192.4
22.5°	1178.3
25°	1163.2
27.5°	1146.1
30°	1128.9
32.5°	1111.8
35°	1094.7
37.5°	1076.6
40°	1058.4
42.5°	1035.3
45°	1007.1
47.5°	970.8
50°	929.5
52.5°	884.2
55°	832.9
57.5°	778.5
60°	722.1
62.5°	661.6
65°	599.2
67.5°	535.8
70°	468.3
72.5°	403.8
75°	339.4
77.5°	276.9
80°	216.5
82.5°	160.1
85°	107.8
87.5°	61.4
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	19.61	21.32	19.98	21.64	21.95	19.61	21.32	19.98	21.64	21.95
	3H	21.57	23.13	21.95	23.45	23.81	21.57	23.13	21.95	23.45	23.81
	4H	22.33	23.80	22.73	24.15	24.52	22.33	23.80	22.73	24.15	24.52
	6H	22.93	24.30	23.34	24.66	25.05	22.93	24.30	23.34	24.66	25.05
	8H	23.15	24.46	23.57	24.84	25.24	23.15	24.46	23.57	24.84	25.24
	12H	23.32	24.57	23.75	24.96	25.38	23.32	24.57	23.75	24.96	25.38
4H	2H	20.30	21.77	20.70	22.12	22.49	20.30	21.77	20.70	22.12	22.49
	3H	22.48	23.73	22.89	24.12	24.52	22.48	23.73	22.89	24.12	24.52
	4H	23.38	24.51	23.81	24.92	25.35	23.38	24.51	23.81	24.92	25.35
	6H	24.12	25.11	24.57	25.55	26.00	24.12	25.11	24.57	25.55	26.00
	8H	24.40	25.33	24.86	25.77	26.23	24.40	25.33	24.86	25.77	26.23
	12H	24.63	25.47	25.11	25.94	26.41	24.63	25.47	25.11	25.94	26.41
8H	4H	23.75	24.67	24.20	25.11	25.58	23.75	24.67	24.20	25.11	25.58
	6H	24.63	25.41	25.12	25.89	26.36	24.63	25.41	25.12	25.89	26.36
	8H	25.00	25.69	25.50	26.20	26.68	25.00	25.69	25.50	26.20	26.68
	12H	25.33	25.95	25.83	26.43	26.99	25.33	25.95	25.83	26.43	26.99
12H	4H	23.80	24.64	24.28	25.11	25.58	23.80	24.64	24.28	25.11	25.58
	6H	24.71	25.41	25.22	25.91	26.40	24.71	25.41	25.22	25.91	26.40
	8H	25.15	25.77	25.65	26.26	26.81	25.15	25.77	25.65	26.26	26.81