

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: P866794

Luminaire Tested: PRLX-2001-L-935-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866794
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-935-100L-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 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

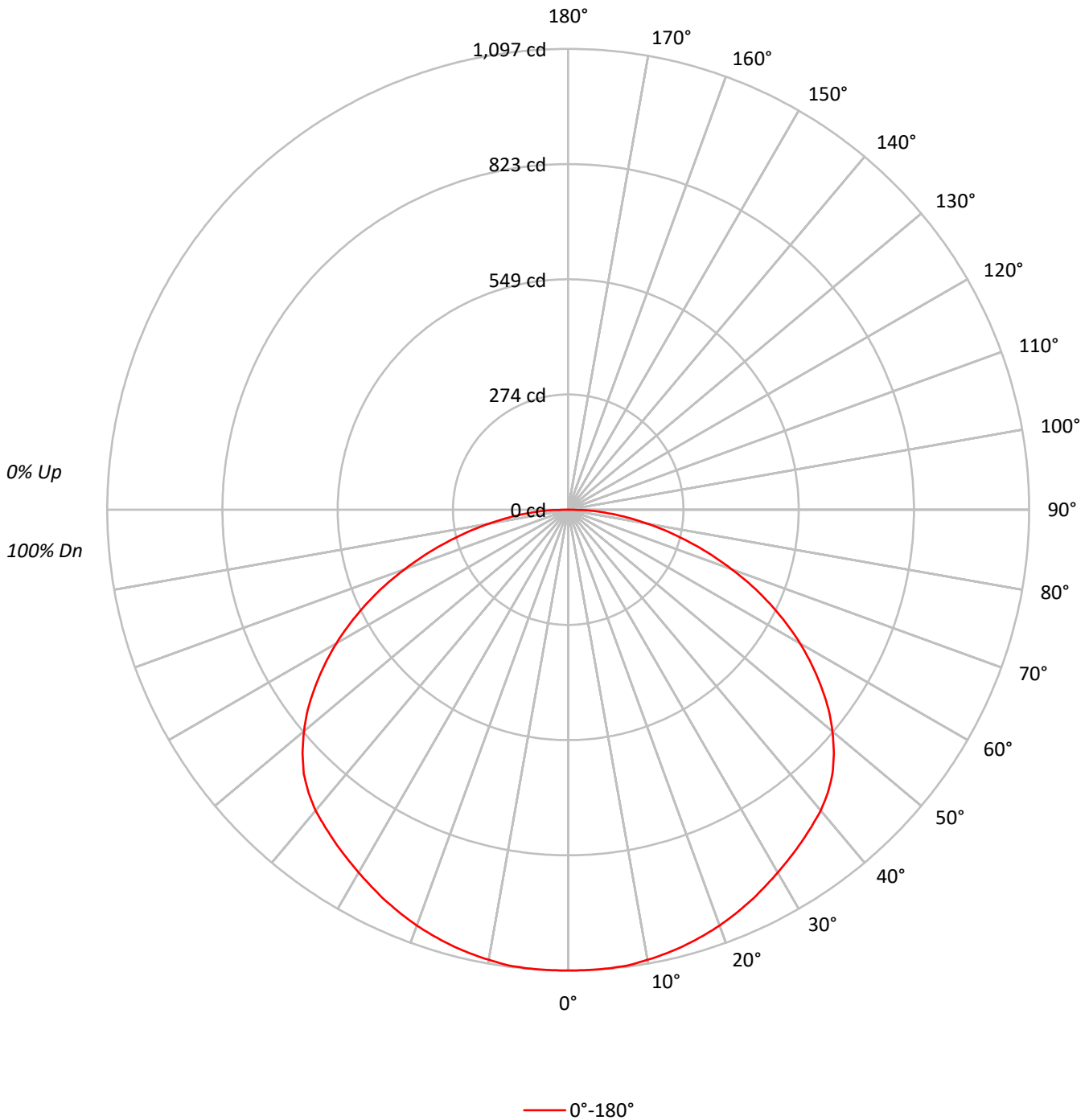
Lumens per Lamp: N/A
Luminaire Lumens: 3774.8 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: P866794

CATALOG NUMBER: PRLX-2001-L-935-100L-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°	5997
5°	6015
10°	6040
15°	6077
20°	6128
25°	6198
30°	6295
35°	6454
40°	6672
45°	6878
50°	6983
55°	7012
60°	6974
65°	6847
70°	6613
75°	6332
80°	6023
85°	5971

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7015 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	2.8
10°-20°	303.5	8.0
20°-30°	474.3	12.6
30°-40°	606.4	16.1
40°-50°	684.1	18.1
50°-60°	656.5	17.4
60°-70°	522.9	13.9
70°-80°	317.5	8.4
80°-90°	105.2	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°	882.3	23.4
0°-40°	1488.7	39.4
0°-60°	2829.3	75.0
0°-90°	3774.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3774.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1097	
5°	1096	104
15°	1074	304
25°	1028	474
35°	967	606
45°	890	684
55°	736	656
65°	529	523
75°	300	317
85°	95	105
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1096.9
2.5°	1096.9
5°	1096.0
7.5°	1094.2
10°	1088.0
12.5°	1081.7
15°	1073.7
17.5°	1063.9
20°	1053.3
22.5°	1040.8
25°	1027.5
27.5°	1012.3
30°	997.2
32.5°	982.1
35°	967.0
37.5°	951.0
40°	934.9
42.5°	914.5
45°	889.6
47.5°	857.6
50°	821.1
52.5°	781.1
55°	735.7
57.5°	687.6
60°	637.8
62.5°	584.5
65°	529.3
67.5°	473.3
70°	413.7
72.5°	356.7
75°	299.8
77.5°	244.6
80°	191.3
82.5°	141.4
85°	95.2
87.5°	54.3
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	19.18	20.89	19.54	21.20	21.52	19.18	20.89	19.54	21.20	21.52
	3H	21.14	22.70	21.52	23.02	23.38	21.14	22.70	21.52	23.02	23.38
	4H	21.90	23.37	22.30	23.72	24.09	21.90	23.37	22.30	23.72	24.09
	6H	22.50	23.87	22.91	24.23	24.62	22.50	23.87	22.91	24.23	24.62
	8H	22.72	24.02	23.14	24.41	24.81	22.72	24.02	23.14	24.41	24.81
	12H	22.89	24.14	23.32	24.52	24.95	22.89	24.14	23.32	24.52	24.95
4H	2H	19.87	21.34	20.27	21.69	22.06	19.87	21.34	20.27	21.69	22.06
	3H	22.05	23.29	22.46	23.69	24.09	22.05	23.29	22.46	23.69	24.09
	4H	22.95	24.08	23.38	24.49	24.92	22.95	24.08	23.38	24.49	24.92
	6H	23.69	24.68	24.14	25.12	25.57	23.69	24.68	24.14	25.12	25.57
	8H	23.97	24.90	24.42	25.34	25.80	23.97	24.90	24.42	25.34	25.80
	12H	24.20	25.04	24.68	25.51	25.98	24.20	25.04	24.68	25.51	25.98
8H	4H	23.32	24.24	23.77	24.68	25.15	23.32	24.24	23.77	24.68	25.15
	6H	24.20	24.97	24.69	25.46	25.93	24.20	24.97	24.69	25.46	25.93
	8H	24.57	25.26	25.07	25.77	26.25	24.57	25.26	25.07	25.77	26.25
	12H	24.90	25.51	25.40	26.00	26.56	24.90	25.51	25.40	26.00	26.56
12H	4H	23.37	24.21	23.85	24.68	25.15	23.37	24.21	23.85	24.68	25.15
	6H	24.28	24.98	24.79	25.48	25.97	24.28	24.98	24.79	25.48	25.97
	8H	24.72	25.34	25.22	25.83	26.38	24.72	25.34	25.22	25.83	26.38