

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: P866730

Luminaire Tested: PRLX-2001-L-930-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866730
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-930-100L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

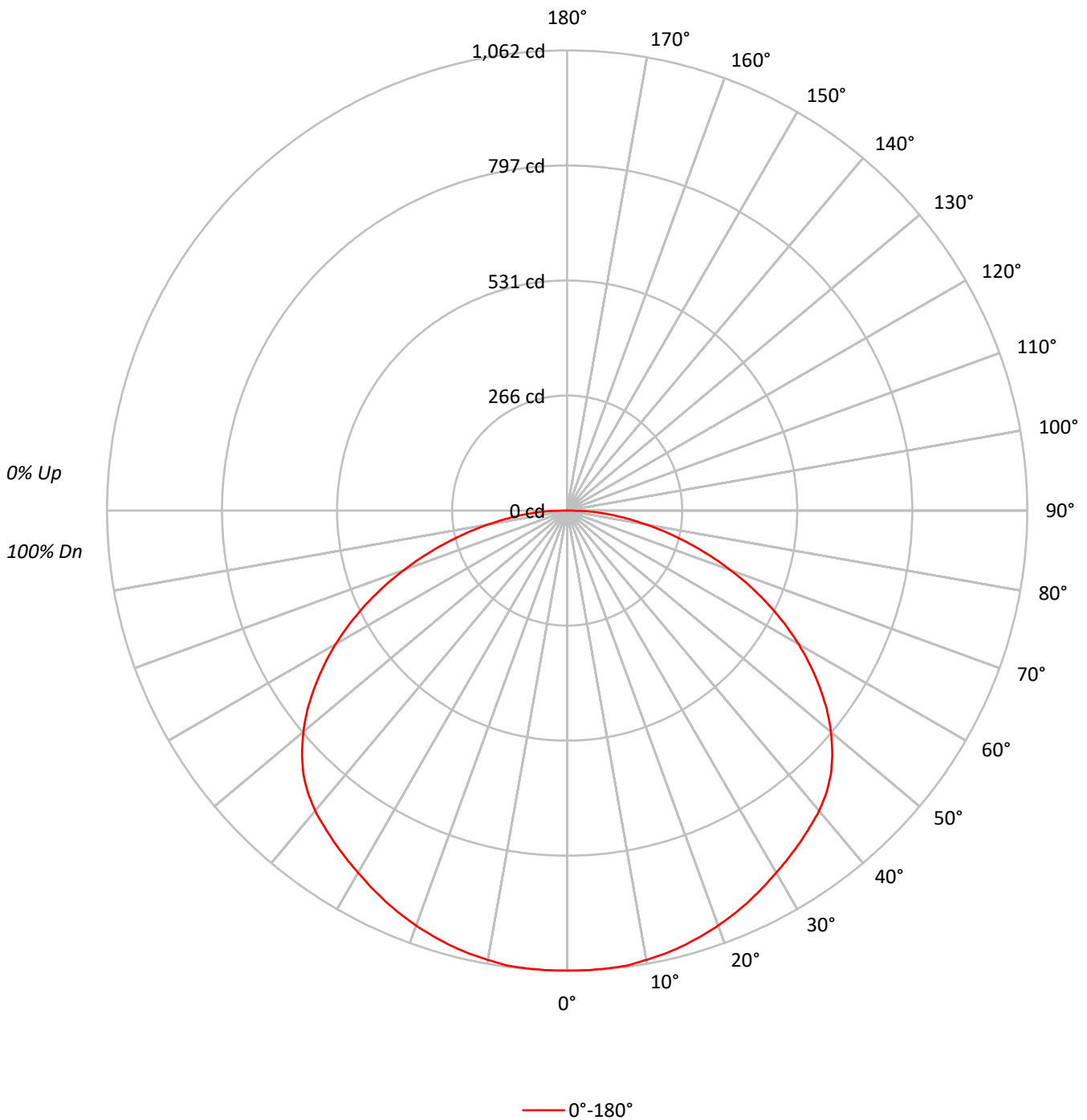
Lumens per Lamp: N/A
Luminaire Lumens: 3653.3 lumens
Efficiency: N/A
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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

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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	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°	5804
5°	5821
10°	5845
15°	5882
20°	5931
25°	5998
30°	6092
35°	6246
40°	6458
45°	6657
50°	6759
55°	6786
60°	6749
65°	6627
70°	6398
75°	6128
80°	5827
85°	5777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	2.8
10°-20°	293.7	8.0
20°-30°	459.1	12.6
30°-40°	586.9	16.1
40°-50°	662.1	18.1
50°-60°	635.3	17.4
60°-70°	506.1	13.9
70°-80°	307.2	8.4
80°-90°	101.8	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°	853.9	23.4
0°-40°	1440.8	39.4
0°-60°	2738.2	75.0
0°-90°	3653.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3653.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1062	
5°	1061	101
15°	1039	294
25°	994	459
35°	936	587
45°	861	662
55°	712	635
65°	512	506
75°	290	307
85°	92	102
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1061.6
2.5°	1061.6
5°	1060.7
7.5°	1059.0
10°	1053.0
12.5°	1046.9
15°	1039.2
17.5°	1029.7
20°	1019.4
22.5°	1007.3
25°	994.4
27.5°	979.8
30°	965.1
32.5°	950.5
35°	935.9
37.5°	920.4
40°	904.9
42.5°	885.1
45°	861.0
47.5°	830.0
50°	794.7
52.5°	755.9
55°	712.0
57.5°	665.5
60°	617.3
62.5°	565.7
65°	512.3
67.5°	458.0
70°	400.3
72.5°	345.2
75°	290.1
77.5°	236.8
80°	185.1
82.5°	136.9
85°	92.1
87.5°	52.5
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	19.07	20.78	19.43	21.09	21.41	19.07	20.78	19.43	21.09	21.41
	3H	21.03	22.58	21.40	22.91	23.27	21.03	22.58	21.40	22.91	23.27
	4H	21.79	23.26	22.18	23.60	23.98	21.79	23.26	22.18	23.60	23.98
	6H	22.39	23.75	22.80	24.11	24.50	22.39	23.75	22.80	24.11	24.50
	8H	22.60	23.91	23.03	24.30	24.70	22.60	23.91	23.03	24.30	24.70
	12H	22.78	24.03	23.20	24.41	24.84	22.78	24.03	23.20	24.41	24.84
4H	2H	19.76	21.23	20.16	21.57	21.95	19.76	21.23	20.16	21.57	21.95
	3H	21.94	23.18	22.35	23.58	23.97	21.94	23.18	22.35	23.58	23.97
	4H	22.84	23.96	23.27	24.37	24.81	22.84	23.96	23.27	24.37	24.81
	6H	23.58	24.57	24.03	25.00	25.46	23.58	24.57	24.03	25.00	25.46
	8H	23.85	24.78	24.31	25.22	25.68	23.85	24.78	24.31	25.22	25.68
	12H	24.08	24.92	24.56	25.40	25.86	24.08	24.92	24.56	25.40	25.86
8H	4H	23.20	24.13	23.66	24.57	25.03	23.20	24.13	23.66	24.57	25.03
	6H	24.08	24.86	24.57	25.35	25.82	24.08	24.86	24.57	25.35	25.82
	8H	24.45	25.15	24.96	25.65	26.14	24.45	25.15	24.96	25.65	26.14
	12H	24.78	25.40	25.29	25.89	26.45	24.78	25.40	25.29	25.89	26.45
12H	4H	23.25	24.09	23.73	24.56	25.03	23.25	24.09	23.73	24.56	25.03
	6H	24.17	24.87	24.67	25.37	25.85	24.17	24.87	24.67	25.37	25.85
	8H	24.60	25.22	25.11	25.71	26.27	24.60	25.22	25.11	25.71	26.27