

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: P867250

Luminaire Tested: PRLX-2004-L-930-117L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-930-117L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

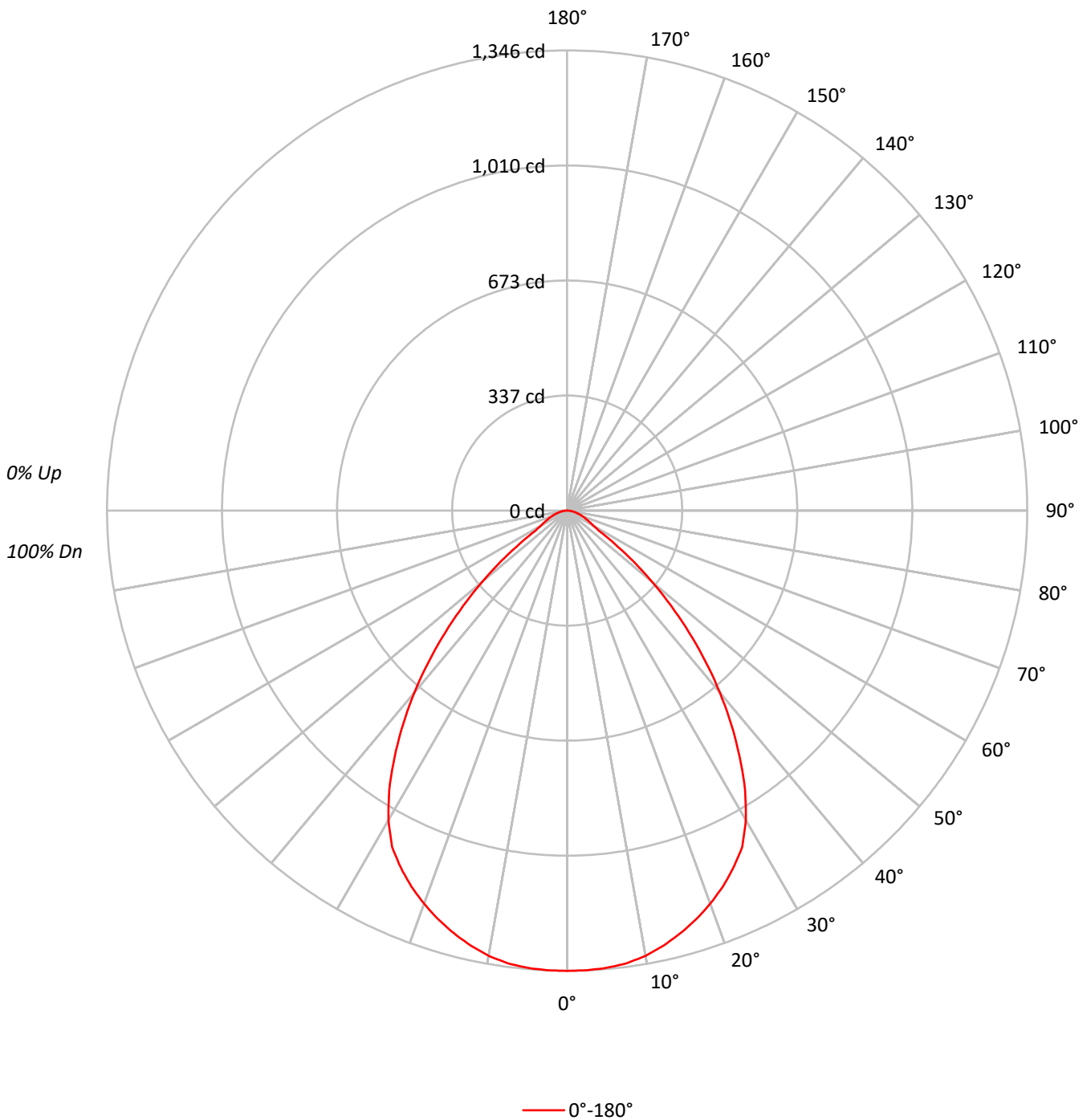
Lumens per Lamp: N/A
Luminaire Lumens: 2221.5 lumens
Efficiency: N/A
Efficacy: 23.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.333 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	67	62	83	73	67	62	72	66	61	70	64	60	68	63	60	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6643
5°	6648
10°	6625
15°	6538
20°	6424
25°	6272
30°	5955
35°	5302
40°	4476
45°	3520
50°	2482
55°	1447
60°	874
65°	753
70°	668
75°	595
80°	543
85°	515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3520 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	5.7
10°-20°	360.7	16.2
20°-30°	528.3	23.8
30°-40°	546.5	24.6
40°-50°	388.1	17.5
50°-60°	161.5	7.3
60°-70°	65.2	2.9
70°-80°	33.6	1.5
80°-90°	10.0	0.5
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°	1016.5	45.8
0°-40°	1563.1	70.4
0°-60°	2112.7	95.1
0°-90°	2221.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1346	
5°	1342	128
15°	1280	361
25°	1152	528
35°	880	547
45°	504	388
55°	168	162
65°	64	65
75°	31	34
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1346.5
2.5°	1345.5
5°	1342.4
7.5°	1335.4
10°	1322.3
12.5°	1303.2
15°	1280.0
17.5°	1253.8
20°	1223.6
22.5°	1190.4
25°	1152.1
27.5°	1108.8
30°	1045.3
32.5°	968.8
35°	880.2
37.5°	788.5
40°	694.9
42.5°	599.2
45°	504.5
47.5°	411.9
50°	323.3
52.5°	243.7
55°	168.2
57.5°	111.8
60°	88.6
62.5°	76.5
65°	64.5
67.5°	55.4
70°	46.3
72.5°	38.3
75°	31.2
77.5°	25.2
80°	19.1
82.5°	14.1
85°	9.1
87.5°	4.0
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	8.51	9.80	8.88	10.11	10.43	8.51	9.80	8.88	10.11	10.43
	3H	9.58	10.72	9.96	11.05	11.41	9.58	10.72	9.96	11.05	11.41
	4H	9.98	11.03	10.38	11.39	11.77	9.98	11.03	10.38	11.39	11.77
	6H	10.28	11.25	10.70	11.62	12.02	10.28	11.25	10.70	11.62	12.02
	8H	10.38	11.30	10.81	11.69	12.10	10.38	11.30	10.81	11.69	12.10
	12H	10.45	11.33	10.89	11.71	12.14	10.45	11.33	10.89	11.71	12.14
4H	2H	8.82	9.88	9.22	10.23	10.61	8.82	9.88	9.22	10.23	10.61
	3H	10.11	10.97	10.52	11.37	11.78	10.11	10.97	10.52	11.37	11.78
	4H	10.62	11.39	11.05	11.81	12.25	10.62	11.39	11.05	11.81	12.25
	6H	11.04	11.70	11.51	12.15	12.62	11.04	11.70	11.51	12.15	12.62
	8H	11.19	11.81	11.66	12.25	12.73	11.19	11.81	11.66	12.25	12.73
	12H	11.30	11.85	11.79	12.33	12.80	11.30	11.85	11.79	12.33	12.80
8H	4H	10.77	11.39	11.24	11.84	12.31	10.77	11.39	11.24	11.84	12.31
	6H	11.31	11.81	11.81	12.31	12.79	11.31	11.81	11.81	12.31	12.79
	8H	11.52	11.98	12.04	12.49	12.99	11.52	11.98	12.04	12.49	12.99
	12H	11.71	12.11	12.23	12.61	13.18	11.71	12.11	12.23	12.61	13.18
12H	4H	10.77	11.31	11.26	11.80	12.27	10.77	11.31	11.26	11.80	12.27
	6H	11.32	11.78	11.85	12.30	12.79	11.32	11.78	11.85	12.30	12.79
	8H	11.59	12.00	12.11	12.49	13.06	11.59	12.00	12.11	12.49	13.06