

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: P867311

Luminaire Tested: PRLX-2004-L-935-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-935-117L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

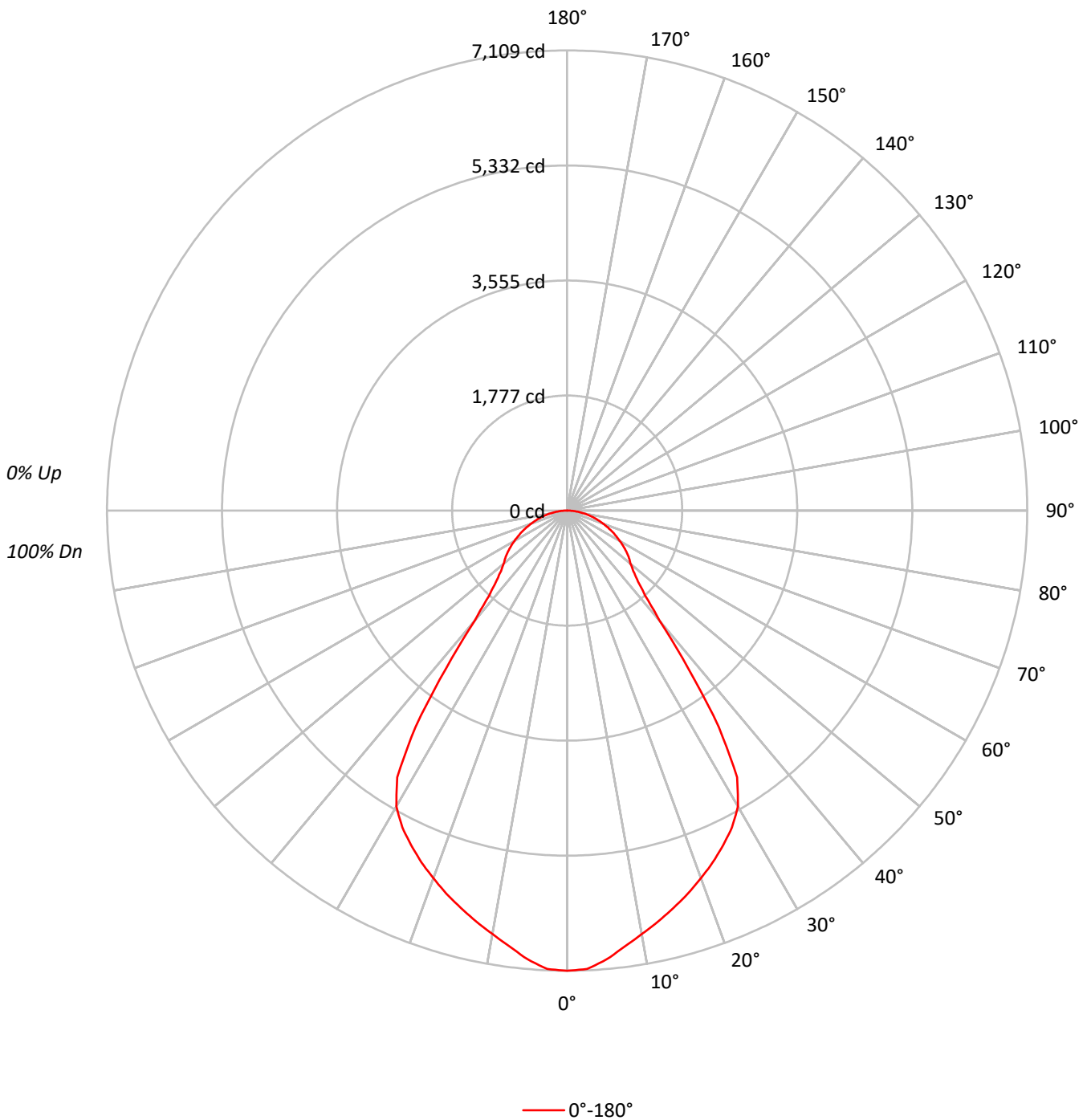
Lumens per Lamp: N/A
Luminaire Lumens: 11114.5 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): 120
Input Current (Ain): 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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35074
5°	34482
10°	33285
15°	32453
20°	31731
25°	31048
30°	30067
35°	24618
40°	14295
45°	10811
50°	9824
55°	9658
60°	9313
65°	8940
70°	8586
75°	8212
80°	7865
85°	7540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10811 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.9	5.9
10°-20°	1791.6	16.1
20°-30°	2623.7	23.6
30°-40°	2439.4	21.9
40°-50°	1242.8	11.2
50°-60°	999.9	9.0
60°-70°	759.2	6.8
70°-80°	457.3	4.1
80°-90°	147.0	1.3
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°	5069.1	45.6
0°-40°	7508.5	67.6
0°-60°	9751.1	87.7
0°-90°	11114.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11114.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7109	
5°	6962	654
15°	6354	1792
25°	5703	2624
35°	4087	2439
45°	1549	1243
55°	1123	1000
65°	766	759
75°	431	457
85°	133	147
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7109.0
2.5°	7088.2
5°	6962.3
7.5°	6793.8
10°	6643.9
12.5°	6501.4
15°	6353.6
17.5°	6203.8
20°	6043.5
22.5°	5881.2
25°	5703.3
27.5°	5516.0
30°	5277.7
32.5°	4885.4
35°	4087.3
37.5°	3067.5
40°	2219.5
42.5°	1784.5
45°	1549.4
47.5°	1383.9
50°	1279.9
52.5°	1205.0
55°	1122.8
57.5°	1031.2
60°	943.8
62.5°	853.3
65°	765.8
67.5°	679.5
70°	595.2
72.5°	513.0
75°	430.8
77.5°	353.8
80°	276.8
82.5°	205.0
85°	133.2
87.5°	63.5
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	18.34	19.69	18.70	20.01	20.32	18.34	19.69	18.70	20.01	20.32
	3H	20.14	21.35	20.52	21.68	22.05	20.14	21.35	20.52	21.68	22.05
	4H	20.85	21.98	21.25	22.33	22.71	20.85	21.98	21.25	22.33	22.71
	6H	21.41	22.45	21.82	22.82	23.22	21.41	22.45	21.82	22.82	23.22
	8H	21.61	22.60	22.04	22.99	23.40	21.61	22.60	22.04	22.99	23.40
	12H	21.75	22.70	22.18	23.09	23.52	21.75	22.70	22.18	23.09	23.52
4H	2H	18.93	20.06	19.33	20.41	20.79	18.93	20.06	19.33	20.41	20.79
	3H	20.95	21.89	21.36	22.30	22.70	20.95	21.89	21.36	22.30	22.70
	4H	21.79	22.64	22.22	23.06	23.50	21.79	22.64	22.22	23.06	23.50
	6H	22.49	23.22	22.95	23.67	24.13	22.49	23.22	22.95	23.67	24.13
	8H	22.74	23.43	23.21	23.88	24.35	22.74	23.43	23.21	23.88	24.35
	12H	22.94	23.55	23.42	24.03	24.50	22.94	23.55	23.42	24.03	24.50
8H	4H	22.09	22.78	22.56	23.23	23.70	22.09	22.78	22.56	23.23	23.70
	6H	22.94	23.50	23.44	24.00	24.48	22.94	23.50	23.44	24.00	24.48
	8H	23.28	23.79	23.80	24.30	24.79	23.28	23.79	23.80	24.30	24.79
	12H	23.58	24.02	24.09	24.52	25.08	23.58	24.02	24.09	24.52	25.08
12H	4H	22.12	22.73	22.61	23.21	23.69	22.12	22.73	22.61	23.21	23.69
	6H	23.00	23.51	23.52	24.02	24.51	23.00	23.51	23.52	24.02	24.51
	8H	23.41	23.86	23.93	24.35	24.92	23.41	23.86	23.93	24.35	24.92