

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: P867309

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-85)
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-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

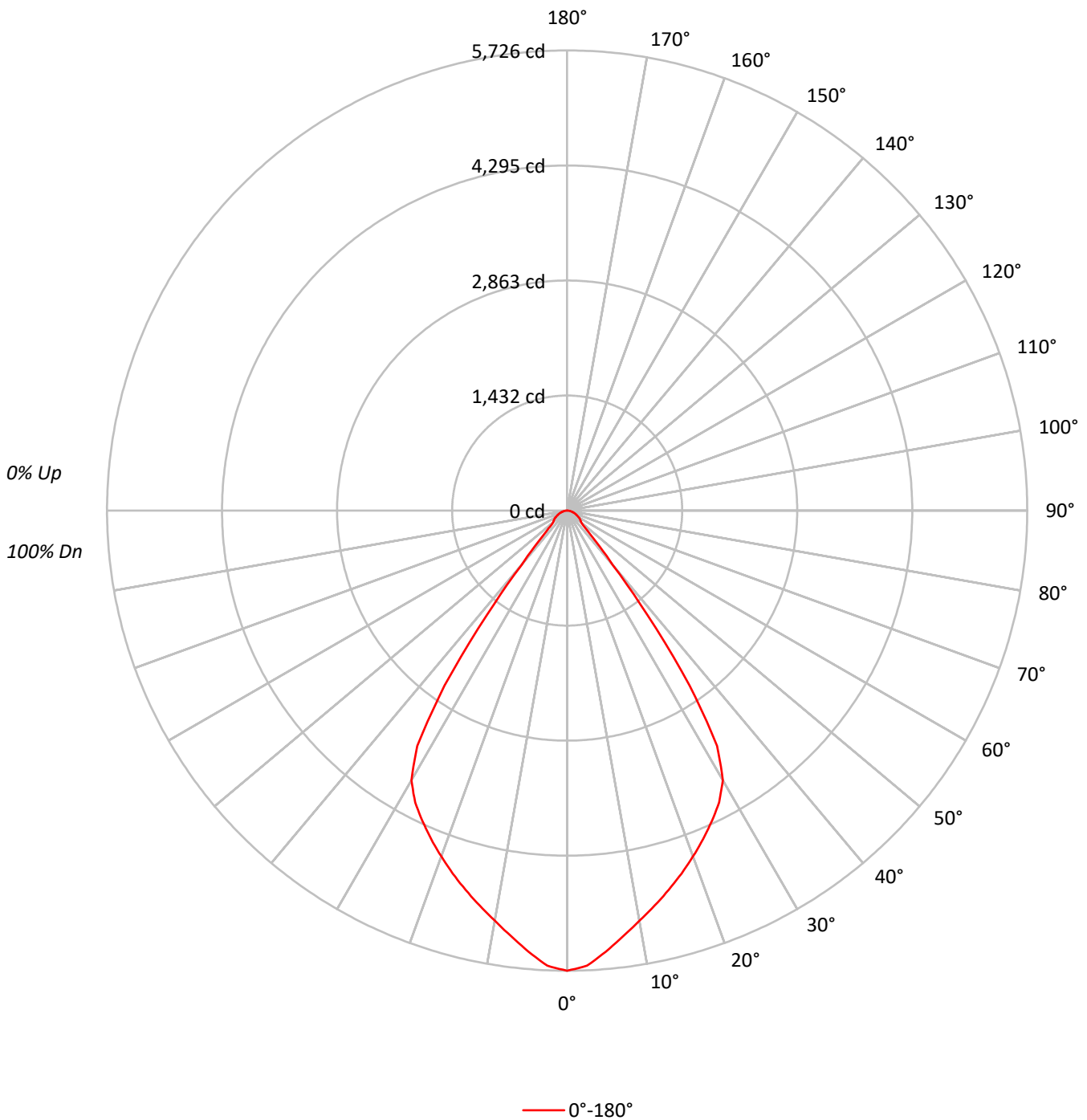
Lumens per Lamp: N/A
Luminaire Lumens: 6132.4 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867309

CATALOG NUMBER: PRLX-2004-L-935-117L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P867309

CATALOG NUMBER: PRLX-2004-L-935-117L-L-X-X-BRSS-X

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	113	110	107	104	110	107	105	103	103	101	99		100	98	97		96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84	81	79	77
4	95	87	80	76	93	85	80	75	83	78	74		81	77	74		79	76	73	71
5	90	80	74	69	88	79	73	69	78	72	68		76	71	68		74	70	67	66
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	58		67	62	58		66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47		56	51	47		55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28252
5°	27293
10°	25961
15°	24954
20°	24044
25°	23197
30°	22076
35°	16013
40°	5690
45°	2505
50°	1733
55°	1709
60°	1612
65°	1519
70°	1427
75°	1350
80°	1270
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2505 cd/sqm

TEST NUMBER: P867309

CATALOG NUMBER: PRLX-2004-L-935-117L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.6	8.4
10°-20°	1375.8	22.4
20°-30°	1958.6	31.9
30°-40°	1553.0	25.3
40°-50°	325.4	5.3
50°-60°	176.4	2.9
60°-70°	129.2	2.1
70°-80°	74.9	1.2
80°-90°	23.4	0.4
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°	3850.0	62.8
0°-40°	5403.0	88.1
0°-60°	5904.9	96.3
0°-90°	6132.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6132.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5726	
5°	5511	516
15°	4885	1376
25°	4261	1959
35°	2659	1553
45°	359	325
55°	199	176
65°	130	129
75°	71	75
85°	21	23
90°	0	

TEST NUMBER: P867309

CATALOG NUMBER: PRLX-2004-L-935-117L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	5726.2
2.5°	5668.9
5°	5510.8
7.5°	5341.1
10°	5181.9
12.5°	5034.2
15°	4885.4
17.5°	4735.5
20°	4579.5
22.5°	4423.4
25°	4261.1
27.5°	4094.6
30°	3875.0
32.5°	3471.3
35°	2658.6
37.5°	1633.7
40°	883.4
42.5°	540.0
45°	359.0
47.5°	261.2
50°	225.8
52.5°	214.4
55°	198.7
57.5°	181.1
60°	163.4
62.5°	146.7
65°	130.1
67.5°	114.5
70°	98.9
72.5°	84.3
75°	70.8
77.5°	57.2
80°	44.7
82.5°	32.3
85°	20.8
87.5°	10.4
90°	0.0

TEST NUMBER: P867309

CATALOG NUMBER: PRLX-2004-L-935-117L-L-X-X-BRSS-X

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	8.68	9.74	9.05	10.05	10.37	8.68	9.74	9.05	10.05	10.37
	3H	10.32	11.25	10.70	11.58	11.95	10.32	11.25	10.70	11.58	11.95
	4H	10.94	11.81	11.35	12.16	12.55	10.94	11.81	11.35	12.16	12.55
	6H	11.42	12.21	11.84	12.59	12.98	11.42	12.21	11.84	12.59	12.98
	8H	11.58	12.33	12.02	12.72	13.13	11.58	12.33	12.02	12.72	13.13
	12H	11.69	12.40	12.12	12.79	13.22	11.69	12.40	12.12	12.79	13.22
4H	2H	9.18	10.04	9.58	10.40	10.78	9.18	10.04	9.58	10.40	10.78
	3H	11.02	11.73	11.43	12.13	12.54	11.02	11.73	11.43	12.13	12.54
	4H	11.77	12.40	12.21	12.83	13.27	11.77	12.40	12.21	12.83	13.27
	6H	12.38	12.92	12.85	13.37	13.84	12.38	12.92	12.85	13.37	13.84
	8H	12.58	13.09	13.06	13.54	14.02	12.58	13.09	13.06	13.54	14.02
	12H	12.74	13.18	13.23	13.66	14.14	12.74	13.18	13.23	13.66	14.14
8H	4H	12.00	12.51	12.48	12.96	13.43	12.00	12.51	12.48	12.96	13.43
	6H	12.75	13.16	13.26	13.66	14.14	12.75	13.16	13.26	13.66	14.14
	8H	13.05	13.41	13.58	13.93	14.42	13.05	13.41	13.58	13.93	14.42
	12H	13.29	13.60	13.81	14.10	14.68	13.29	13.60	13.81	14.10	14.68
12H	4H	12.01	12.45	12.50	12.93	13.41	12.01	12.45	12.50	12.93	13.41
	6H	12.79	13.15	13.32	13.67	14.17	12.79	13.15	13.32	13.67	14.17
	8H	13.15	13.46	13.67	13.96	14.54	13.15	13.46	13.67	13.96	14.54