

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: P866595

Luminaire Tested: PRLX-2004-M-935-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-935-75L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

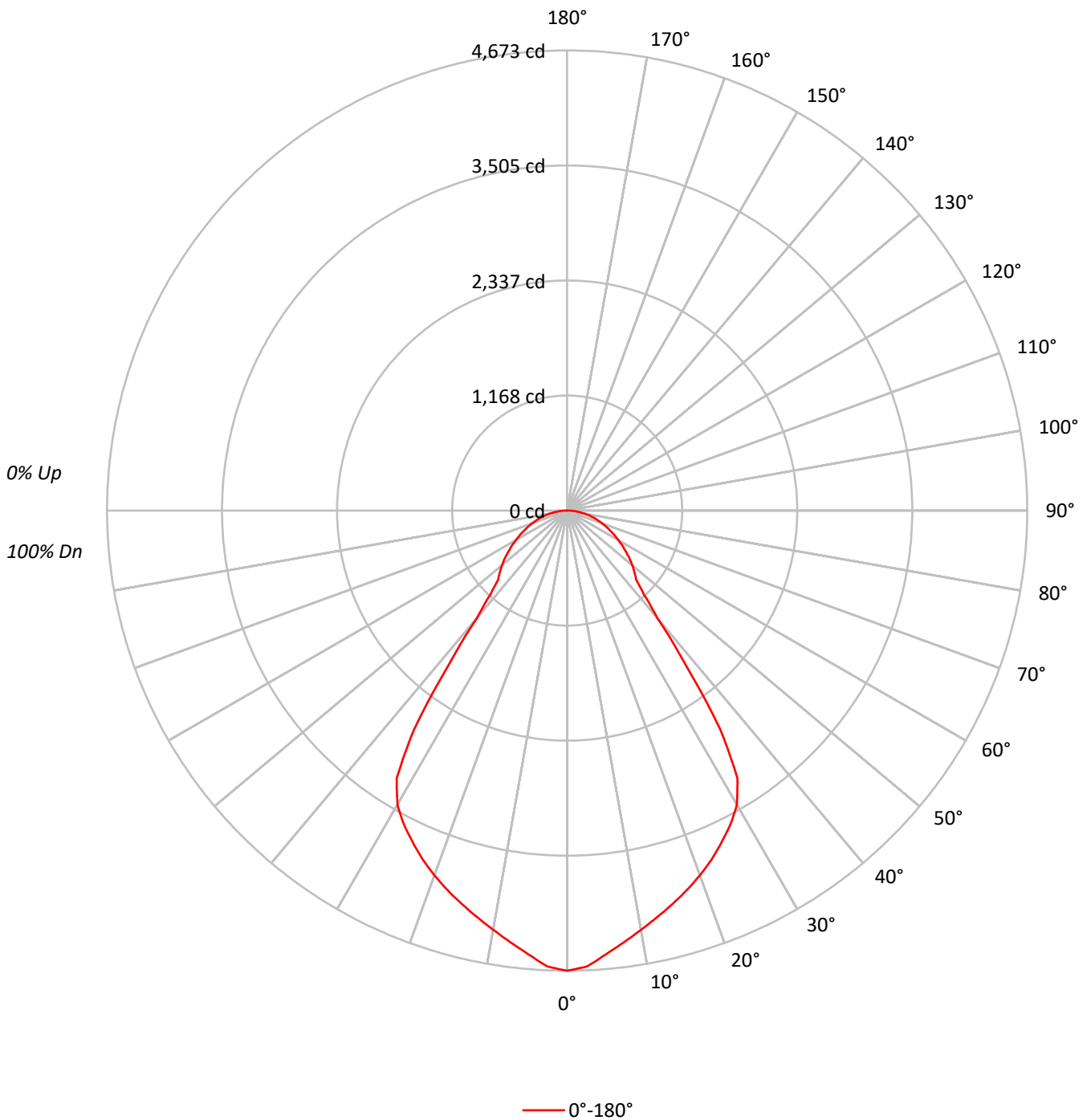
Lumens per Lamp: N/A
Luminaire Lumens: 7235.3 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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

TEST NUMBER: P866595

CATALOG NUMBER: PRLX-2004-M-935-75L-L-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866595

CATALOG NUMBER: PRLX-2004-M-935-75L-L-U-S-X-X-WHHR-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	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	83	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	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	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	54	48	43	52	47	43	42
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°	37175
5°	36114
10°	34921
15°	34062
20°	33375
25°	32604
30°	31671
35°	26328
40°	14817
45°	11151
50°	10705
55°	10134
60°	9553
65°	9079
70°	8758
75°	8508
80°	8297
85°	8170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11151 cd/sqm

TEST NUMBER: P866595

CATALOG NUMBER: PRLX-2004-M-935-75L-L-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	5.9
10°-20°	1166.6	16.1
20°-30°	1710.1	23.6
30°-40°	1597.5	22.1
40°-50°	810.2	11.2
50°-60°	654.1	9.0
60°-70°	480.9	6.6
70°-80°	292.6	4.0
80°-90°	97.7	1.4
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°	3302.3	45.6
0°-40°	4899.8	67.7
0°-60°	6364.1	88.0
0°-90°	7235.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7235.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4673	
5°	4522	426
15°	4136	1167
25°	3714	1710
35°	2711	1597
45°	991	810
55°	731	654
65°	482	481
75°	277	293
85°	90	98
90°	0	

TEST NUMBER: P866595

CATALOG NUMBER: PRLX-2004-M-935-75L-L-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	4672.7
2.5°	4634.1
5°	4522.1
7.5°	4420.4
10°	4322.7
12.5°	4229.1
15°	4135.5
17.5°	4041.8
20°	3942.1
22.5°	3834.3
25°	3714.2
27.5°	3592.1
30°	3447.6
32.5°	3219.6
35°	2710.8
37.5°	1976.1
40°	1426.7
42.5°	1149.9
45°	991.1
47.5°	926.0
50°	864.9
52.5°	797.8
55°	730.6
57.5°	665.5
60°	600.4
62.5°	543.4
65°	482.3
67.5°	429.4
70°	376.5
72.5°	325.6
75°	276.8
77.5°	227.9
80°	181.1
82.5°	134.3
85°	89.5
87.5°	44.8
90°	0.0



TEST NUMBER: P866595
 CATALOG NUMBER: PRLX-2004-M-935-75L-L-U-S-X-X-WHHR-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	18.44	19.80	18.81	20.11	20.42	18.44	19.80	18.81	20.11	20.42
	3H	20.18	21.40	20.56	21.72	22.09	20.18	21.40	20.56	21.72	22.09
	4H	20.89	22.03	21.29	22.38	22.76	20.89	22.03	21.29	22.38	22.76
	6H	21.47	22.51	21.88	22.88	23.28	21.47	22.51	21.88	22.88	23.28
	8H	21.68	22.67	22.11	23.06	23.47	21.68	22.67	22.11	23.06	23.47
	12H	21.84	22.79	22.27	23.17	23.60	21.84	22.79	22.27	23.17	23.60
4H	2H	19.00	20.13	19.40	20.48	20.86	19.00	20.13	19.40	20.48	20.86
	3H	20.97	21.92	21.39	22.32	22.72	20.97	21.92	21.39	22.32	22.72
	4H	21.82	22.67	22.26	23.09	23.53	21.82	22.67	22.26	23.09	23.53
	6H	22.54	23.28	23.00	23.72	24.19	22.54	23.28	23.00	23.72	24.19
	8H	22.81	23.50	23.28	23.94	24.41	22.81	23.50	23.28	23.94	24.41
	12H	23.02	23.63	23.51	24.12	24.59	23.02	23.63	23.51	24.12	24.59
8H	4H	22.13	22.82	22.60	23.26	23.73	22.13	22.82	22.60	23.26	23.73
	6H	23.00	23.57	23.50	24.06	24.54	23.00	23.57	23.50	24.06	24.54
	8H	23.36	23.87	23.88	24.38	24.87	23.36	23.87	23.88	24.38	24.87
	12H	23.68	24.12	24.19	24.62	25.19	23.68	24.12	24.19	24.62	25.19
12H	4H	22.16	22.77	22.65	23.25	23.73	22.16	22.77	22.65	23.25	23.73
	6H	23.07	23.58	23.59	24.09	24.58	23.07	23.58	23.59	24.09	24.58
	8H	23.50	23.94	24.01	24.44	25.01	23.50	23.94	24.01	24.44	25.01