

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: P866337

Luminaire Tested: PRLX-2002-M-935-75L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-75L-L-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

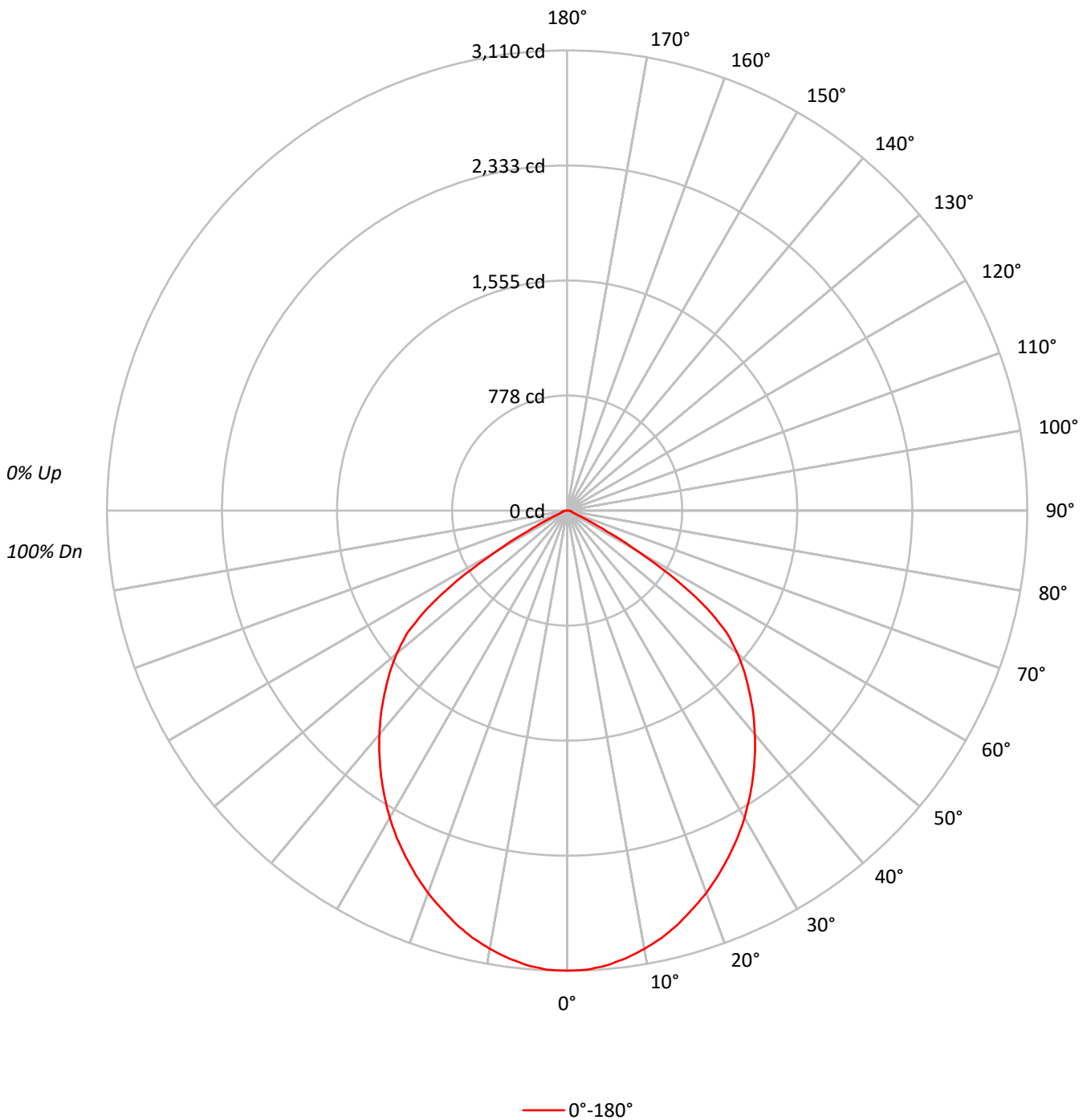
Lumens per Lamp: N/A
Luminaire Lumens: 6244.1 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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: P866337

CATALOG NUMBER: PRLX-2002-M-935-75L-L-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866337

CATALOG NUMBER: PRLX-2002-M-935-75L-L-U-S-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	111	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84		89	85	82		86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73		80	76	72		78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64		73	67	63		71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45		55	49	45		54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	37		46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34		44	38	33		43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24740
5°	24640
10°	24300
15°	23836
20°	23278
25°	22671
30°	22024
35°	21288
40°	20502
45°	19623
50°	18615
55°	16034
60°	8840
65°	2491
70°	993
75°	1064
80°	1214
85°	1488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19623 cd/sqm

TEST NUMBER: P866337

CATALOG NUMBER: PRLX-2002-M-935-75L-L-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	4.7
10°-20°	814.9	13.1
20°-30°	1189.1	19.0
30°-40°	1370.2	21.9
40°-50°	1345.2	21.5
50°-60°	986.5	15.8
60°-70°	193.3	3.1
70°-80°	36.5	0.6
80°-90°	16.3	0.3
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°	2296.0	36.8
0°-40°	3666.2	58.7
0°-60°	5997.9	96.1
0°-90°	6244.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6244.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3110	
5°	3085	292
15°	2894	815
25°	2583	1189
35°	2192	1370
45°	1744	1345
55°	1156	987
65°	132	193
75°	35	37
85°	16	16
90°	0	

TEST NUMBER: P866337

CATALOG NUMBER: PRLX-2002-M-935-75L-L-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3109.7
2.5°	3105.7
5°	3085.3
7.5°	3050.7
10°	3008.0
12.5°	2957.1
15°	2894.0
17.5°	2822.8
20°	2749.5
22.5°	2668.1
25°	2582.6
27.5°	2493.1
30°	2397.4
32.5°	2295.7
35°	2191.9
37.5°	2084.0
40°	1974.1
42.5°	1862.2
45°	1744.1
47.5°	1628.1
50°	1504.0
52.5°	1363.6
55°	1156.0
57.5°	885.3
60°	555.6
62.5°	299.2
65°	132.3
67.5°	61.1
70°	42.7
72.5°	38.7
75°	34.6
77.5°	30.5
80°	26.5
82.5°	22.4
85°	16.3
87.5°	8.1
90°	0.0



TEST NUMBER: P866337
 CATALOG NUMBER: PRLX-2002-M-935-75L-L-U-S-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	20.69	22.12	21.06	22.43	22.75	20.69	22.12	21.06	22.43	22.75
	3H	20.60	21.86	20.98	22.19	22.55	20.60	21.86	20.98	22.19	22.55
	4H	20.54	21.71	20.95	22.06	22.45	20.54	21.71	20.95	22.06	22.45
	6H	20.49	21.56	20.90	21.93	22.33	20.49	21.56	20.90	21.93	22.33
	8H	20.46	21.48	20.89	21.87	22.27	20.46	21.48	20.89	21.87	22.27
	12H	20.43	21.40	20.86	21.79	22.22	20.43	21.40	20.86	21.79	22.22
4H	2H	20.55	21.72	20.96	22.07	22.45	20.55	21.72	20.96	22.07	22.45
	3H	20.47	21.41	20.88	21.82	22.22	20.47	21.41	20.88	21.82	22.22
	4H	20.41	21.25	20.85	21.67	22.11	20.41	21.25	20.85	21.67	22.11
	6H	20.37	21.09	20.83	21.54	22.00	20.37	21.09	20.83	21.54	22.00
	8H	20.33	21.01	20.80	21.45	21.92	20.33	21.01	20.80	21.45	21.92
	12H	20.31	20.91	20.79	21.39	21.86	20.31	20.91	20.79	21.39	21.86
8H	4H	20.30	20.97	20.76	21.42	21.89	20.30	20.97	20.76	21.42	21.89
	6H	20.24	20.80	20.74	21.29	21.77	20.24	20.80	20.74	21.29	21.77
	8H	20.20	20.71	20.72	21.22	21.71	20.20	20.71	20.72	21.22	21.71
	12H	20.19	20.64	20.70	21.14	21.70	20.19	20.64	20.70	21.14	21.70
12H	4H	20.25	20.86	20.74	21.34	21.81	20.25	20.86	20.74	21.34	21.81
	6H	20.18	20.69	20.70	21.20	21.69	20.18	20.69	20.70	21.20	21.69
	8H	20.17	20.62	20.68	21.12	21.68	20.17	20.62	20.68	21.12	21.68