

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: P866797

Luminaire Tested: PRLX-2001-L-935-117L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-117L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

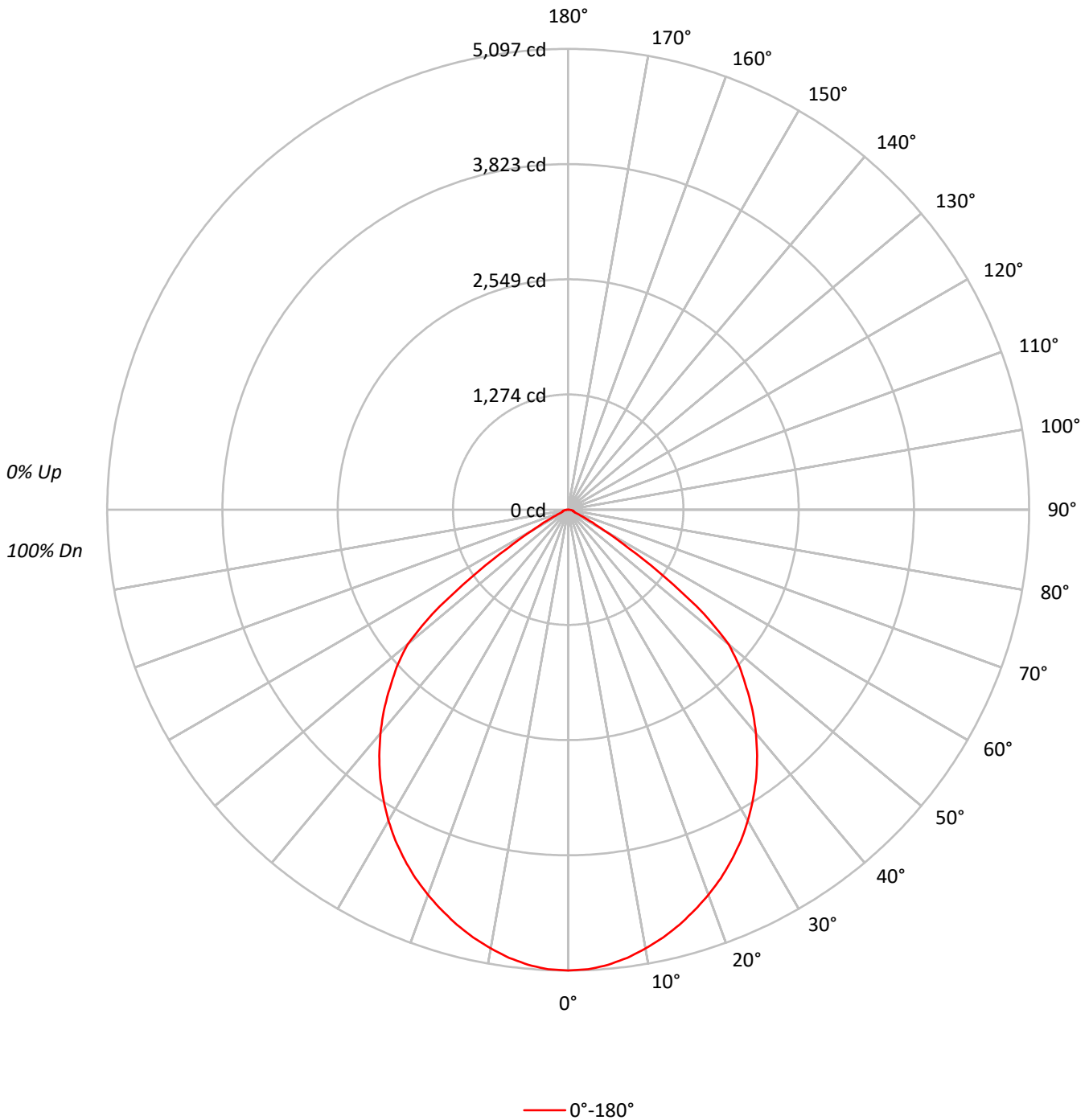
Lumens per Lamp: N/A
Luminaire Lumens: 9660.6 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866797

CATALOG NUMBER: PRLX-2001-L-935-117L-L-X-X-BRSS-X

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	112	108	105	102	109	106	103	101	102	100	97		98	96	94		95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27862
5°	27729
10°	27351
15°	26890
20°	26376
25°	25790
30°	25079
35°	24174
40°	23042
45°	21560
50°	19708
55°	12506
60°	4961
65°	1898
70°	1148
75°	1253
80°	1407
85°	1568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21560 cd/sqm

TEST NUMBER: P866797

CATALOG NUMBER: PRLX-2001-L-935-117L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.4	5.0
10°-20°	1338.9	13.9
20°-30°	1968.0	20.4
30°-40°	2261.4	23.4
40°-50°	2148.5	22.2
50°-60°	1191.2	12.3
60°-70°	185.9	1.9
70°-80°	62.4	0.6
80°-90°	25.9	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°	3785.3	39.2
0°-40°	6046.7	62.6
0°-60°	9386.4	97.2
0°-90°	9660.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9660.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5097	
5°	5053	478
15°	4751	1339
25°	4276	1968
35°	3622	2261
45°	2789	2148
55°	1312	1191
65°	147	186
75°	59	62
85°	25	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5096.6
2.5°	5088.3
5°	5052.9
7.5°	4999.8
10°	4927.0
12.5°	4846.9
15°	4751.2
17.5°	4646.1
20°	4533.7
22.5°	4411.9
25°	4275.6
27.5°	4132.0
30°	3972.8
32.5°	3802.2
35°	3622.2
37.5°	3431.7
40°	3228.8
42.5°	3017.6
45°	2788.7
47.5°	2567.0
50°	2317.3
52.5°	1891.7
55°	1312.1
57.5°	798.1
60°	453.7
62.5°	269.5
65°	146.7
67.5°	80.1
70°	71.8
72.5°	65.6
75°	59.3
77.5°	53.1
80°	44.7
82.5°	35.4
85°	25.0
87.5°	12.5
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	17.19	18.56	17.55	18.88	19.19	17.19	18.56	17.55	18.88	19.19
	3H	17.12	18.33	17.50	18.66	19.03	17.12	18.33	17.50	18.66	19.03
	4H	17.10	18.23	17.50	18.58	18.96	17.10	18.23	17.50	18.58	18.96
	6H	17.09	18.12	17.50	18.49	18.88	17.09	18.12	17.50	18.49	18.88
	8H	17.08	18.05	17.51	18.44	18.85	17.08	18.05	17.51	18.44	18.85
	12H	17.07	18.00	17.50	18.38	18.81	17.07	18.00	17.50	18.38	18.81
4H	2H	17.06	18.18	17.46	18.53	18.91	17.06	18.18	17.46	18.53	18.91
	3H	17.03	17.93	17.44	18.33	18.74	17.03	17.93	17.44	18.33	18.74
	4H	17.02	17.82	17.45	18.24	18.68	17.02	17.82	17.45	18.24	18.68
	6H	17.04	17.74	17.50	18.18	18.65	17.04	17.74	17.50	18.18	18.65
	8H	17.04	17.69	17.51	18.14	18.61	17.04	17.69	17.51	18.14	18.61
	12H	17.05	17.62	17.53	18.11	18.58	17.05	17.62	17.53	18.11	18.58
8H	4H	16.93	17.57	17.40	18.02	18.49	16.93	17.57	17.40	18.02	18.49
	6H	16.97	17.50	17.47	18.00	18.48	16.97	17.50	17.47	18.00	18.48
	8H	16.99	17.47	17.51	17.99	18.48	16.99	17.47	17.51	17.99	18.48
	12H	17.03	17.46	17.54	17.96	18.53	17.03	17.46	17.54	17.96	18.53
12H	4H	16.89	17.46	17.38	17.95	18.42	16.89	17.46	17.38	17.95	18.42
	6H	16.92	17.41	17.44	17.92	18.42	16.92	17.41	17.44	17.92	18.42
	8H	16.97	17.41	17.49	17.91	18.48	16.97	17.41	17.49	17.91	18.48