

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: P867185

Luminaire Tested: PRLX-2004-L-927-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-927-117L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

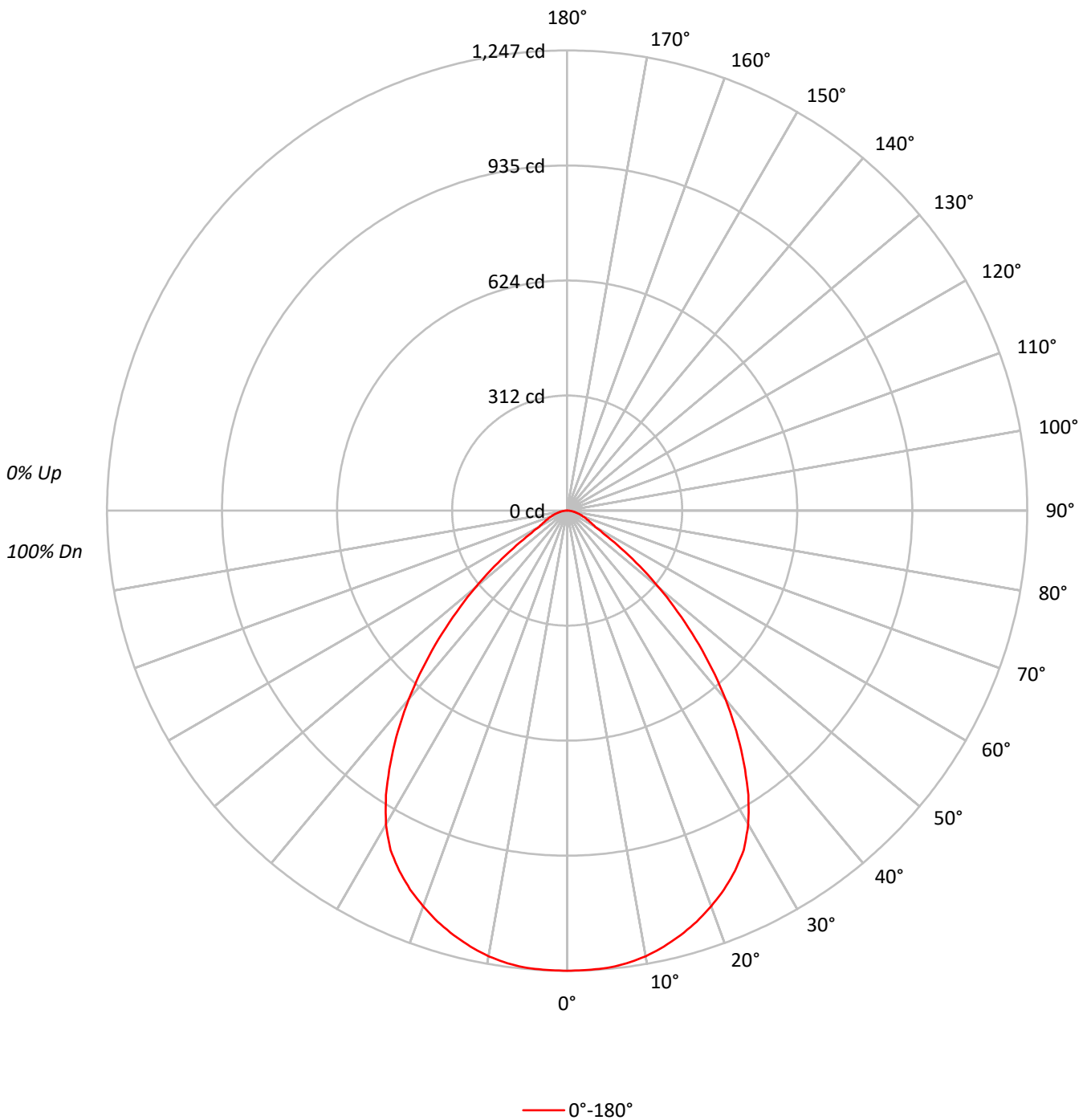
Lumens per Lamp: N/A
Luminaire Lumens: 2117.9 lumens
Efficiency: N/A
Efficacy: 22.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

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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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	70	67	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6153
5°	6163
10°	6144
15°	6081
20°	5990
25°	5861
30°	5593
35°	5029
40°	4298
45°	3435
50°	2492
55°	1530
60°	863
65°	737
70°	652
75°	593
80°	534
85°	481

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3435 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	5.6
10°-20°	335.6	15.8
20°-30°	493.9	23.3
30°-40°	518.5	24.5
40°-50°	378.5	17.9
50°-60°	166.8	7.9
60°-70°	63.6	3.0
70°-80°	33.0	1.6
80°-90°	9.7	0.5
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°	947.7	44.7
0°-40°	1466.2	69.2
0°-60°	2011.5	95.0
0°-90°	2117.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2117.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1247	
5°	1244	118
15°	1191	336
25°	1077	494
35°	835	519
45°	492	379
55°	178	167
65°	63	64
75°	31	33
85°	8	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1247.1
2.5°	1246.2
5°	1244.3
7.5°	1237.7
10°	1226.4
12.5°	1210.4
15°	1190.6
17.5°	1168.0
20°	1140.8
22.5°	1111.6
25°	1076.7
27.5°	1037.2
30°	981.7
32.5°	913.9
35°	834.9
37.5°	753.0
40°	667.3
42.5°	579.8
45°	492.3
47.5°	405.7
50°	324.7
52.5°	248.5
55°	177.9
57.5°	120.5
60°	87.5
62.5°	74.4
65°	63.1
67.5°	53.6
70°	45.2
72.5°	37.6
75°	31.1
77.5°	24.5
80°	18.8
82.5°	14.1
85°	8.5
87.5°	3.8
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	9.15	10.45	9.51	10.76	11.08	9.15	10.45	9.51	10.76	11.08
	3H	10.03	11.18	10.41	11.51	11.87	10.03	11.18	10.41	11.51	11.87
	4H	10.38	11.45	10.78	11.80	12.18	10.38	11.45	10.78	11.80	12.18
	6H	10.64	11.62	11.06	11.99	12.39	10.64	11.62	11.06	11.99	12.39
	8H	10.74	11.66	11.17	12.06	12.46	10.74	11.66	11.17	12.06	12.46
	12H	10.79	11.68	11.23	12.06	12.49	10.79	11.68	11.23	12.06	12.49
4H	2H	9.37	10.44	9.78	10.79	11.18	9.37	10.44	9.78	10.79	11.18
	3H	10.47	11.34	10.88	11.75	12.15	10.47	11.34	10.88	11.75	12.15
	4H	10.94	11.72	11.38	12.14	12.58	10.94	11.72	11.38	12.14	12.58
	6H	11.33	12.00	11.79	12.44	12.91	11.33	12.00	11.79	12.44	12.91
	8H	11.46	12.09	11.93	12.54	13.01	11.46	12.09	11.93	12.54	13.01
	12H	11.56	12.11	12.05	12.60	13.07	11.56	12.11	12.05	12.60	13.07
8H	4H	11.08	11.70	11.55	12.15	12.62	11.08	11.70	11.55	12.15	12.62
	6H	11.56	12.07	12.07	12.57	13.05	11.56	12.07	12.07	12.57	13.05
	8H	11.77	12.23	12.29	12.75	13.24	11.77	12.23	12.29	12.75	13.24
	12H	11.93	12.34	12.45	12.84	13.41	11.93	12.34	12.45	12.84	13.41
12H	4H	11.07	11.62	11.56	12.11	12.58	11.07	11.62	11.56	12.11	12.58
	6H	11.58	12.04	12.10	12.55	13.05	11.58	12.04	12.10	12.55	13.05
	8H	11.83	12.24	12.35	12.74	13.31	11.83	12.24	12.35	12.74	13.31