

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: P867181

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867181
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-927-117L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

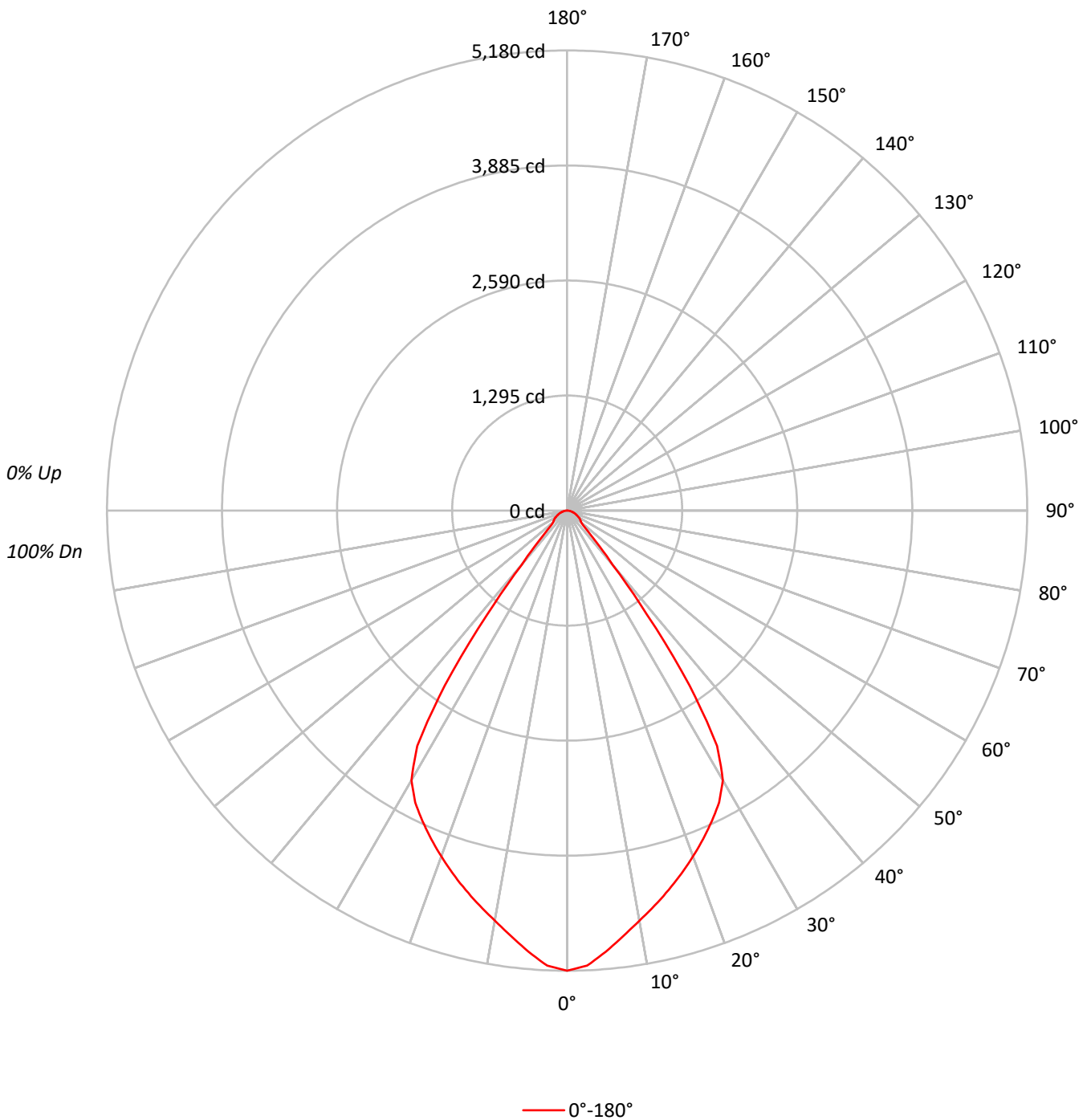
Lumens per Lamp: N/A
Luminaire Lumens: 5546.9 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

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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	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°	25555
5°	24688
10°	23483
15°	22572
20°	21749
25°	20982
30°	19969
35°	14484
40°	5147
45°	2266
50°	1567
55°	1547
60°	1458
65°	1374
70°	1290
75°	1220
80°	1151
85°	1064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2266 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.4	8.4
10°-20°	1244.4	22.4
20°-30°	1771.6	31.9
30°-40°	1404.7	25.3
40°-50°	294.4	5.3
50°-60°	159.5	2.9
60°-70°	116.9	2.1
70°-80°	67.8	1.2
80°-90°	21.1	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°	3482.5	62.8
0°-40°	4887.2	88.1
0°-60°	5341.1	96.3
0°-90°	5546.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5546.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5180	
5°	4985	466
15°	4419	1244
25°	3854	1772
35°	2405	1405
45°	325	294
55°	180	160
65°	118	117
75°	64	68
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5179.5
2.5°	5127.7
5°	4984.7
7.5°	4831.3
10°	4687.2
12.5°	4553.6
15°	4419.0
17.5°	4283.5
20°	4142.3
22.5°	4001.1
25°	3854.3
27.5°	3703.7
30°	3505.1
32.5°	3139.9
35°	2404.8
37.5°	1477.7
40°	799.1
42.5°	488.5
45°	324.7
47.5°	236.2
50°	204.2
52.5°	193.9
55°	179.8
57.5°	163.8
60°	147.8
62.5°	132.7
65°	117.7
67.5°	103.5
70°	89.4
72.5°	76.2
75°	64.0
77.5°	51.8
80°	40.5
82.5°	29.2
85°	18.8
87.5°	9.4
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	8.34	9.39	8.70	9.70	10.02	8.34	9.39	8.70	9.70	10.02
	3H	9.96	10.90	10.35	11.23	11.60	9.96	10.90	10.35	11.23	11.60
	4H	10.59	11.46	11.00	11.81	12.20	10.59	11.46	11.00	11.81	12.20
	6H	11.07	11.86	11.49	12.24	12.63	11.07	11.86	11.49	12.24	12.63
	8H	11.23	11.98	11.67	12.37	12.78	11.23	11.98	11.67	12.37	12.78
	12H	11.34	12.05	11.77	12.44	12.87	11.34	12.05	11.77	12.44	12.87
4H	2H	8.83	9.69	9.23	10.05	10.43	8.83	9.69	9.23	10.05	10.43
	3H	10.66	11.38	11.08	11.78	12.19	10.66	11.38	11.08	11.78	12.19
	4H	11.42	12.05	11.85	12.48	12.92	11.42	12.05	11.85	12.48	12.92
	6H	12.03	12.57	12.50	13.02	13.50	12.03	12.57	12.50	13.02	13.50
	8H	12.24	12.74	12.71	13.19	13.67	12.24	12.74	12.71	13.19	13.67
	12H	12.39	12.83	12.88	13.32	13.79	12.39	12.83	12.88	13.32	13.79
8H	4H	11.65	12.16	12.13	12.61	13.08	11.65	12.16	12.13	12.61	13.08
	6H	12.40	12.81	12.91	13.31	13.79	12.40	12.81	12.91	13.31	13.79
	8H	12.70	13.06	13.23	13.58	14.07	12.70	13.06	13.23	13.58	14.07
	12H	12.94	13.25	13.46	13.75	14.33	12.94	13.25	13.46	13.75	14.33
12H	4H	11.66	12.10	12.15	12.58	13.06	11.66	12.10	12.15	12.58	13.06
	6H	12.44	12.80	12.97	13.33	13.82	12.44	12.80	12.97	13.33	13.82
	8H	12.80	13.11	13.32	13.61	14.19	12.80	13.11	13.32	13.61	14.19