

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: P867172

Luminaire Tested: PRLX-2004-L-927-100L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-87)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-927-100L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

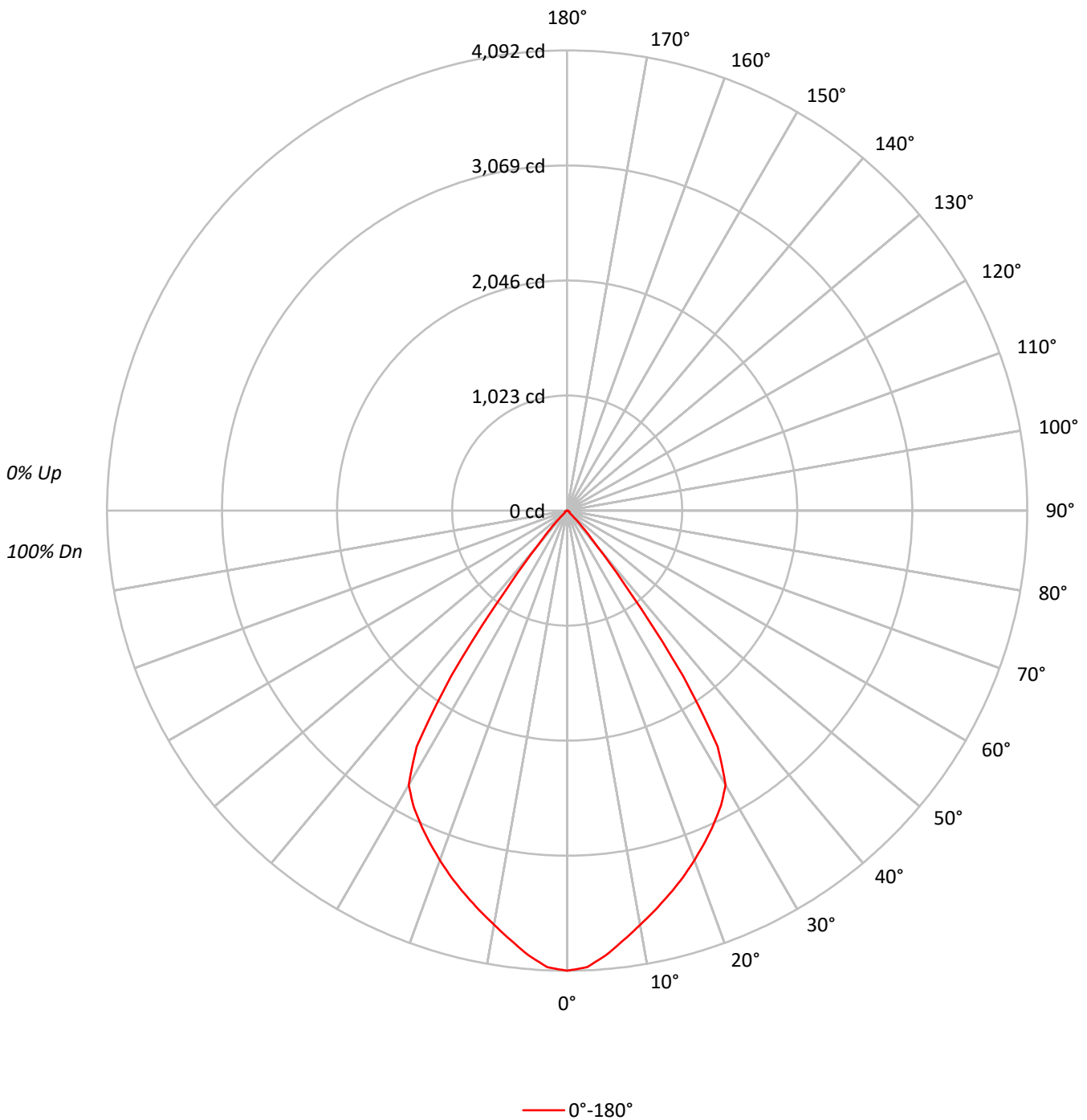
Lumens per Lamp: N/A
Luminaire Lumens: 3974.3 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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

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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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20188
5°	19651
10°	18737
15°	18018
20°	17376
25°	16768
30°	16049
35°	10827
40°	2612
45°	668
50°	235
55°	221
60°	206
65°	188
70°	175
75°	170
80°	159
85°	136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 668 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	9.3
10°-20°	993.5	25.0
20°-30°	1416.6	35.6
30°-40°	1036.6	26.1
40°-50°	105.0	2.6
50°-60°	23.0	0.6
60°-70°	16.0	0.4
70°-80°	9.4	0.2
80°-90°	2.9	0.1
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°	2781.5	70.0
0°-40°	3818.0	96.1
0°-60°	3946.0	99.3
0°-90°	3974.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3974.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4092	
5°	3968	371
15°	3528	994
25°	3080	1417
35°	1798	1037
45°	96	105
55°	26	23
65°	16	16
75°	9	9
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4091.7
2.5°	4063.5
5°	3967.8
7.5°	3851.9
10°	3740.0
12.5°	3633.8
15°	3527.6
17.5°	3420.6
20°	3309.5
22.5°	3194.5
25°	3080.2
27.5°	2960.3
30°	2817.1
32.5°	2488.0
35°	1797.6
37.5°	914.1
40°	405.5
42.5°	214.8
45°	95.8
47.5°	33.8
50°	30.6
52.5°	28.2
55°	25.7
57.5°	23.3
60°	20.9
62.5°	18.5
65°	16.1
67.5°	13.7
70°	12.1
72.5°	10.5
75°	8.9
77.5°	7.2
80°	5.6
82.5°	4.0
85°	2.4
87.5°	1.6
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.09
	8H	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.23
	12H	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35
	6H	0.00	0.00	0.01	0.45	0.93	0.00	0.00	0.01	0.45	0.93
	8H	0.00	0.17	0.21	0.62	1.09	0.00	0.17	0.21	0.62	1.09
	12H	0.00	0.23	0.35	0.72	1.20	0.00	0.23	0.35	0.72	1.20
8H	4H	0.00	0.00	0.00	0.03	0.51	0.00	0.00	0.00	0.03	0.51
	6H	0.00	0.23	0.40	0.74	1.23	0.00	0.23	0.40	0.74	1.23
	8H	0.17	0.48	0.71	1.00	1.50	0.17	0.48	0.71	1.00	1.50
	12H	0.39	0.65	0.91	1.15	1.73	0.39	0.65	0.91	1.15	1.73
12H	4H	0.00	0.00	0.00	0.01	0.49	0.00	0.00	0.00	0.01	0.49
	6H	0.00	0.23	0.46	0.75	1.25	0.00	0.23	0.46	0.75	1.25
	8H	0.27	0.53	0.79	1.03	1.61	0.27	0.53	0.79	1.03	1.61