

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: P867287

Luminaire Tested: PRLX-2004-L-930-67L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-930-67L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

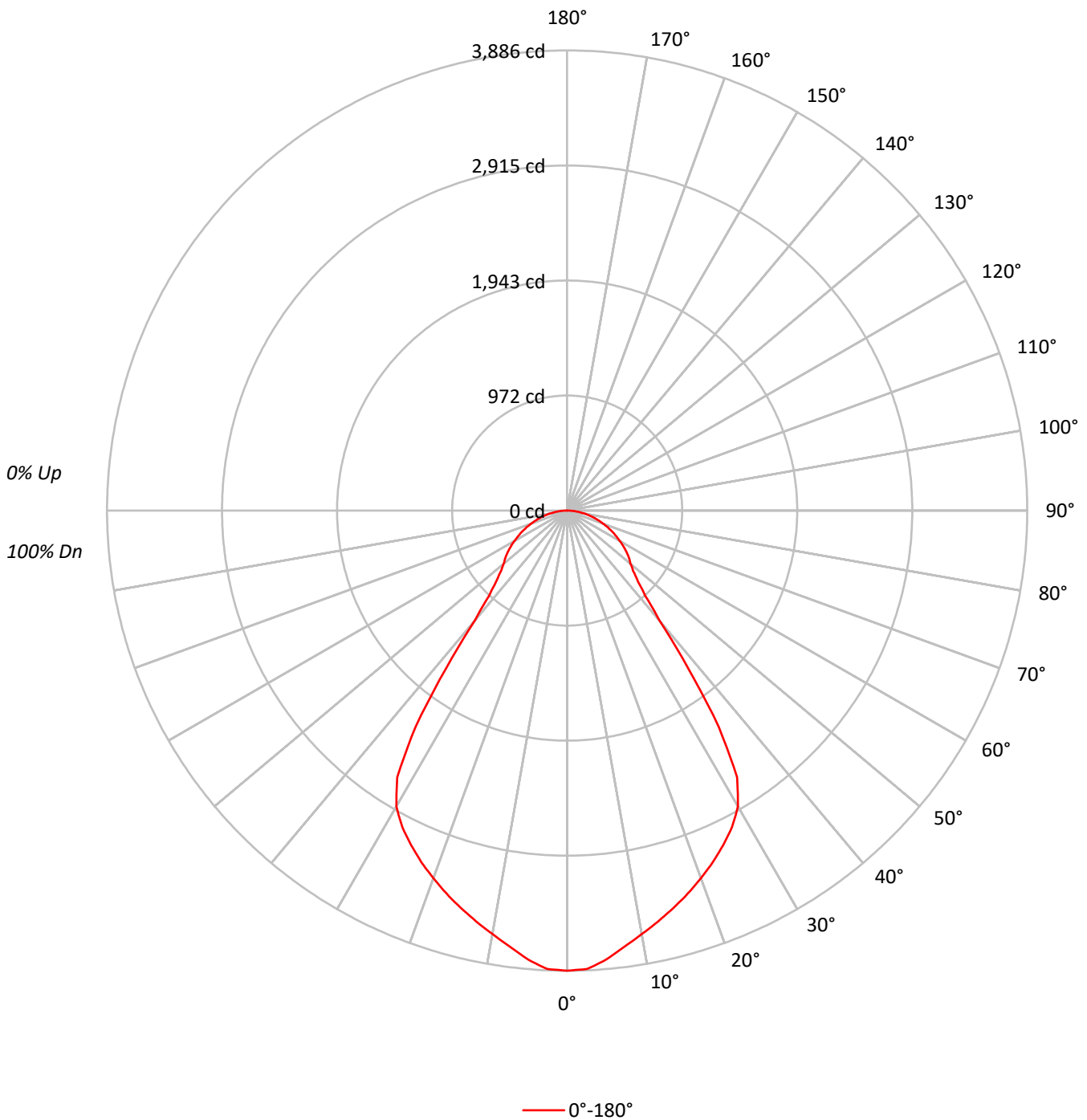
Lumens per Lamp: N/A
Luminaire Lumens: 6074.8 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: 0.5 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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19171
5°	18847
10°	18193
15°	17738
20°	17343
25°	16970
30°	16434
35°	13456
40°	7813
45°	5909
50°	5369
55°	5279
60°	5090
65°	4887
70°	4693
75°	4489
80°	4299
85°	4121

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.4	5.9
10°-20°	979.2	16.1
20°-30°	1434.0	23.6
30°-40°	1333.3	21.9
40°-50°	679.3	11.2
50°-60°	546.5	9.0
60°-70°	414.9	6.8
70°-80°	249.9	4.1
80°-90°	80.3	1.3
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°	2770.6	45.6
0°-40°	4103.9	67.6
0°-60°	5329.6	87.7
0°-90°	6074.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6074.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3886	
5°	3805	357
15°	3473	979
25°	3117	1434
35°	2234	1333
45°	847	679
55°	614	546
65°	419	415
75°	236	250
85°	73	80
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3885.6
2.5°	3874.2
5°	3805.4
7.5°	3713.2
10°	3631.4
12.5°	3553.4
15°	3472.7
17.5°	3390.8
20°	3303.2
22.5°	3214.5
25°	3117.2
27.5°	3014.8
30°	2884.6
32.5°	2670.2
35°	2234.0
37.5°	1676.6
40°	1213.1
42.5°	975.4
45°	846.8
47.5°	756.4
50°	699.5
52.5°	658.6
55°	613.7
57.5°	563.6
60°	515.8
62.5°	466.4
65°	418.6
67.5°	371.4
70°	325.3
72.5°	280.4
75°	235.5
77.5°	193.4
80°	151.3
82.5°	112.0
85°	72.8
87.5°	34.7
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	16.24	17.59	16.61	17.91	18.22	16.24	17.59	16.61	17.91	18.22
	3H	18.04	19.25	18.42	19.58	19.95	18.04	19.25	18.42	19.58	19.95
	4H	18.75	19.88	19.15	20.23	20.62	18.75	19.88	19.15	20.23	20.62
	6H	19.31	20.35	19.72	20.72	21.12	19.31	20.35	19.72	20.72	21.12
	8H	19.51	20.50	19.94	20.89	21.30	19.51	20.50	19.94	20.89	21.30
	12H	19.65	20.60	20.08	20.99	21.42	19.65	20.60	20.08	20.99	21.42
4H	2H	16.83	17.96	17.23	18.31	18.70	16.83	17.96	17.23	18.31	18.70
	3H	18.85	19.79	19.26	20.20	20.60	18.85	19.79	19.26	20.20	20.60
	4H	19.69	20.54	20.12	20.96	21.40	19.69	20.54	20.12	20.96	21.40
	6H	20.39	21.13	20.85	21.57	22.03	20.39	21.13	20.85	21.57	22.03
	8H	20.64	21.33	21.11	21.78	22.25	20.64	21.33	21.11	21.78	22.25
	12H	20.84	21.45	21.32	21.93	22.41	20.84	21.45	21.32	21.93	22.41
8H	4H	19.99	20.68	20.46	21.13	21.60	19.99	20.68	20.46	21.13	21.60
	6H	20.84	21.40	21.34	21.90	22.38	20.84	21.40	21.34	21.90	22.38
	8H	21.18	21.69	21.70	22.20	22.69	21.18	21.69	21.70	22.20	22.69
	12H	21.48	21.92	21.99	22.42	22.99	21.48	21.92	21.99	22.42	22.99
12H	4H	20.02	20.63	20.51	21.12	21.59	20.02	20.63	20.51	21.12	21.59
	6H	20.90	21.41	21.42	21.92	22.41	20.90	21.41	21.42	21.92	22.41
	8H	21.31	21.76	21.83	22.25	22.82	21.31	21.76	21.83	22.25	22.82