

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: P867407

Luminaire Tested: PRLX-2004-L-940-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867407
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: Prenalux
Catalog Number: PRLX-2004-L-940-48L-L-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

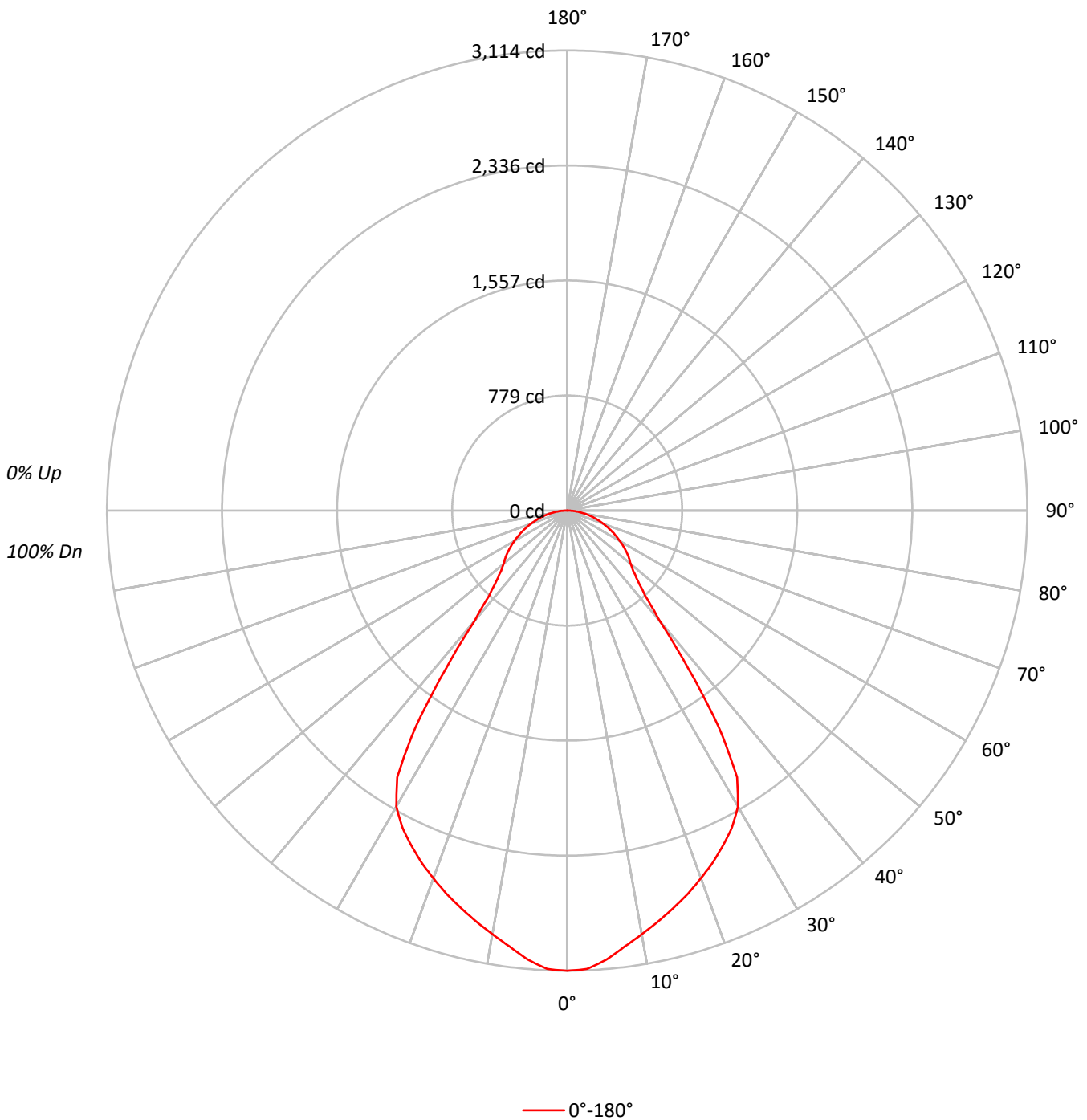
Lumens per Lamp: N/A
Luminaire Lumens: 4869.3 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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°	15366
5°	15107
10°	14582
15°	14218
20°	13902
25°	13602
30°	13173
35°	10785
40°	6263
45°	4736
50°	4304
55°	4231
60°	4080
65°	3917
70°	3762
75°	3597
80°	3446
85°	3306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4736 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	5.9
10°-20°	784.9	16.1
20°-30°	1149.4	23.6
30°-40°	1068.7	21.9
40°-50°	544.5	11.2
50°-60°	438.0	9.0
60°-70°	332.6	6.8
70°-80°	200.3	4.1
80°-90°	64.4	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°	2220.8	45.6
0°-40°	3289.5	67.6
0°-60°	4272.0	87.7
0°-90°	4869.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4869.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3114	
5°	3050	286
15°	2784	785
25°	2499	1149
35°	1791	1069
45°	679	544
55°	492	438
65°	336	333
75°	189	200
85°	58	64
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3114.5
2.5°	3105.4
5°	3050.2
7.5°	2976.4
10°	2910.7
12.5°	2848.3
15°	2783.5
17.5°	2717.9
20°	2647.7
22.5°	2576.6
25°	2498.6
27.5°	2416.5
30°	2312.2
32.5°	2140.3
35°	1790.6
37.5°	1343.9
40°	972.4
42.5°	781.8
45°	678.8
47.5°	606.3
50°	560.7
52.5°	527.9
55°	491.9
57.5°	451.8
60°	413.5
62.5°	373.8
65°	335.5
67.5°	297.7
70°	260.8
72.5°	224.7
75°	188.7
77.5°	155.0
80°	121.3
82.5°	89.8
85°	58.4
87.5°	27.8
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	15.47	16.83	15.84	17.14	17.45	15.47	16.83	15.84	17.14	17.45
	3H	17.27	18.48	17.65	18.81	19.18	17.27	18.48	17.65	18.81	19.18
	4H	17.98	19.11	18.38	19.46	19.85	17.98	19.11	18.38	19.46	19.85
	6H	18.54	19.59	18.95	19.96	20.35	18.54	19.59	18.95	19.96	20.35
	8H	18.74	19.73	19.17	20.12	20.53	18.74	19.73	19.17	20.12	20.53
	12H	18.88	19.84	19.32	20.22	20.65	18.88	19.84	19.32	20.22	20.65
4H	2H	16.06	17.19	16.46	17.55	17.93	16.06	17.19	16.46	17.55	17.93
	3H	18.08	19.03	18.49	19.43	19.83	18.08	19.03	18.49	19.43	19.83
	4H	18.92	19.77	19.35	20.19	20.63	18.92	19.77	19.35	20.19	20.63
	6H	19.62	20.36	20.08	20.80	21.27	19.62	20.36	20.08	20.80	21.27
	8H	19.87	20.56	20.34	21.01	21.48	19.87	20.56	20.34	21.01	21.48
	12H	20.07	20.68	20.56	21.16	21.64	20.07	20.68	20.56	21.16	21.64
8H	4H	19.22	19.91	19.69	20.36	20.83	19.22	19.91	19.69	20.36	20.83
	6H	20.07	20.63	20.57	21.13	21.61	20.07	20.63	20.57	21.13	21.61
	8H	20.41	20.92	20.93	21.43	21.92	20.41	20.92	20.93	21.43	21.92
	12H	20.71	21.15	21.22	21.65	22.22	20.71	21.15	21.22	21.65	22.22
12H	4H	19.25	19.87	19.74	20.35	20.82	19.25	19.87	19.74	20.35	20.82
	6H	20.13	20.64	20.65	21.15	21.64	20.13	20.64	20.65	21.15	21.64
	8H	20.55	20.99	21.06	21.48	22.05	20.55	20.99	21.06	21.48	22.05