

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: P866700

Luminaire Tested: PRLX-2001-L-927-48L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-79)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-48L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

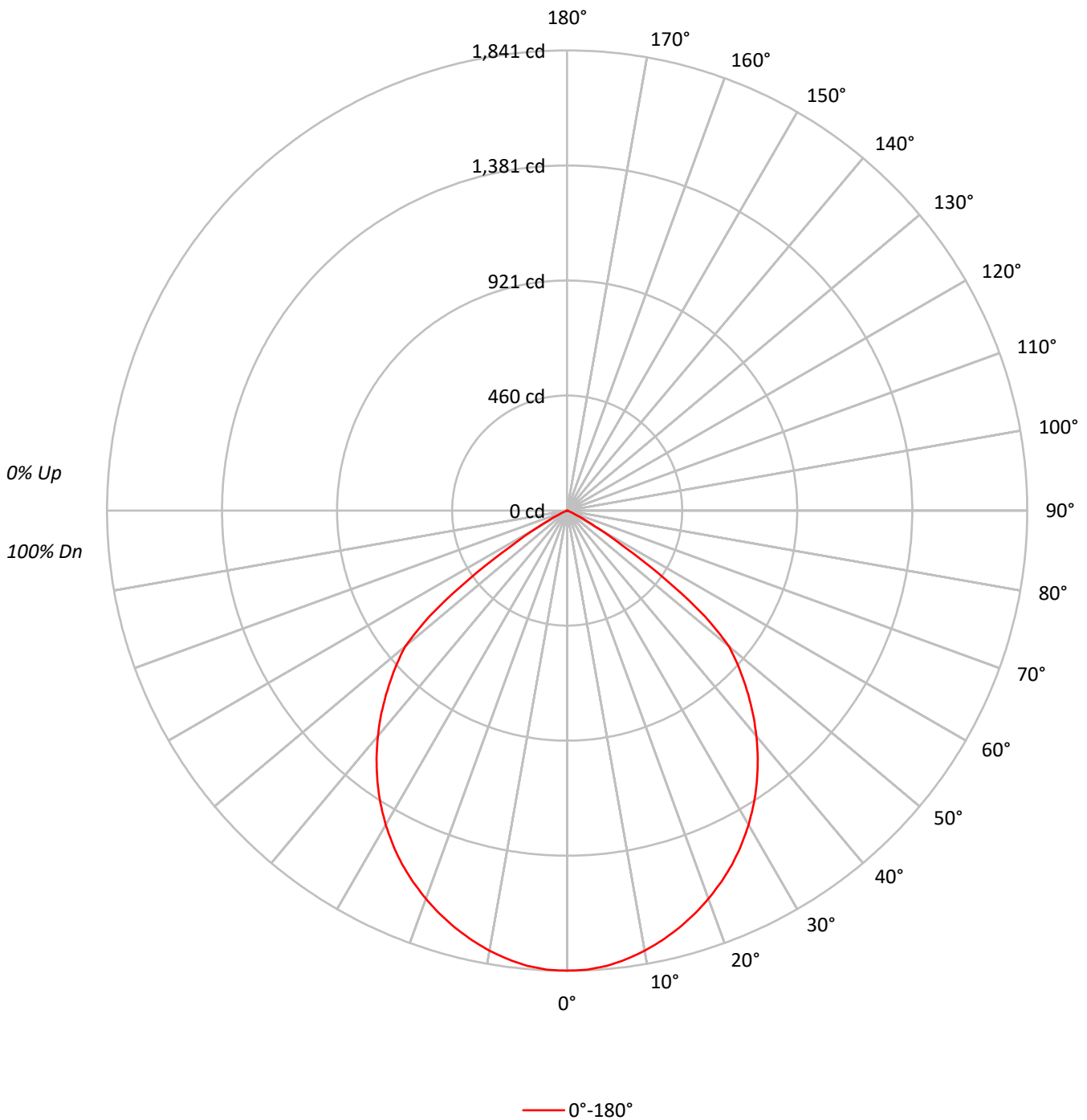
Lumens per Lamp: N/A
Luminaire Lumens: 3468.5 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (Ain): 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	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		80	76	73	71
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		66	62	58	56
6	78	67	59	53	76	66	58	53	64	58	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	56	48	43	67	55	48	43	54	48	43		53	47	43		52	47	43	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	41	36	46	40	36		46	40	36		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10062
5°	10034
10°	9924
15°	9782
20°	9614
25°	9420
30°	9163
35°	8833
40°	8408
45°	7867
50°	7199
55°	4566
60°	1585
65°	398
70°	69
75°	76
80°	88
85°	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	5.0
10°-20°	487.1	14.0
20°-30°	718.4	20.7
30°-40°	826.1	23.8
40°-50°	783.2	22.6
50°-60°	429.6	12.4
60°-70°	45.4	1.3
70°-80°	3.8	0.1
80°-90°	1.7	0.0
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°	1378.7	39.8
0°-40°	2204.8	63.6
0°-60°	3417.6	98.5
0°-90°	3468.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3468.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1841	
5°	1828	173
15°	1728	487
25°	1562	718
35°	1324	826
45°	1018	783
55°	479	430
65°	31	45
75°	4	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1840.6
2.5°	1838.6
5°	1828.4
7.5°	1810.6
10°	1787.7
12.5°	1760.4
15°	1728.4
17.5°	1692.5
20°	1652.6
22.5°	1609.1
25°	1561.7
27.5°	1508.8
30°	1451.5
32.5°	1389.9
35°	1323.6
37.5°	1252.9
40°	1178.2
42.5°	1100.0
45°	1017.5
47.5°	933.3
50°	846.4
52.5°	695.6
55°	479.1
57.5°	274.1
60°	145.0
62.5°	75.4
65°	30.8
67.5°	5.9
70°	4.3
72.5°	3.9
75°	3.6
77.5°	3.2
80°	2.8
82.5°	2.4
85°	1.6
87.5°	0.8
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	13.32	14.68	13.68	14.99	15.31	13.32	14.68	13.68	14.99	15.31
	3H	13.20	14.39	13.58	14.72	15.08	13.20	14.39	13.58	14.72	15.08
	4H	13.13	14.23	13.53	14.58	14.96	13.13	14.23	13.53	14.58	14.96
	6H	13.05	14.06	13.47	14.43	14.83	13.05	14.06	13.47	14.43	14.83
	8H	13.01	13.97	13.44	14.36	14.76	13.01	13.97	13.44	14.36	14.76
	12H	12.97	13.88	13.40	14.27	14.70	12.97	13.88	13.40	14.27	14.70
4H	2H	13.15	14.26	13.55	14.61	14.99	13.15	14.26	13.55	14.61	14.99
	3H	13.03	13.91	13.44	14.32	14.72	13.03	13.91	13.44	14.32	14.72
	4H	12.94	13.73	13.38	14.15	14.59	12.94	13.73	13.38	14.15	14.59
	6H	12.87	13.54	13.33	13.99	14.45	12.87	13.54	13.33	13.99	14.45
	8H	12.81	13.44	13.28	13.89	14.36	12.81	13.44	13.28	13.89	14.36
	12H	12.76	13.32	13.25	13.80	14.28	12.76	13.32	13.25	13.80	14.28
8H	4H	12.80	13.44	13.27	13.88	14.35	12.80	13.44	13.27	13.88	14.35
	6H	12.70	13.22	13.20	13.72	14.20	12.70	13.22	13.20	13.72	14.20
	8H	12.63	13.11	13.16	13.62	14.12	12.63	13.11	13.16	13.62	14.12
	12H	12.59	13.01	13.10	13.51	14.08	12.59	13.01	13.10	13.51	14.08
12H	4H	12.76	13.31	13.24	13.80	14.27	12.76	13.31	13.24	13.80	14.27
	6H	12.63	13.11	13.15	13.62	14.11	12.63	13.11	13.15	13.62	14.11
	8H	12.58	13.01	13.10	13.50	14.07	12.58	13.01	13.10	13.50	14.07