

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: P866676

Luminaire Tested: PRLX-2001-L-927-133L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866676
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-927-133L-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 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

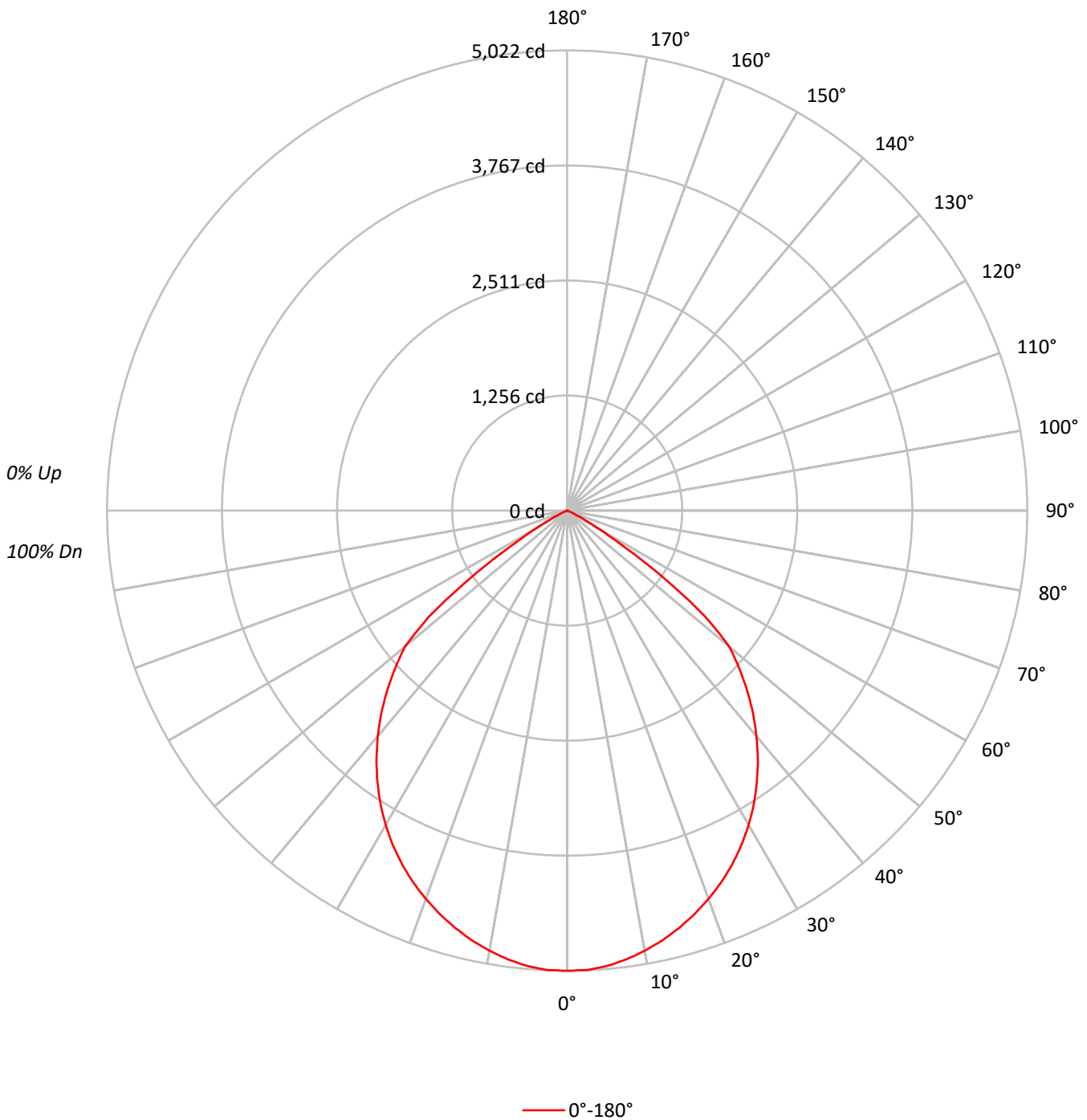
Lumens per Lamp: N/A
Luminaire Lumens: 9464.4 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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°	27457
5°	27378
10°	27079
15°	26693
20°	26234
25°	25705
30°	25003
35°	24103
40°	22944
45°	21464
50°	19644
55°	12460
60°	4324
65°	1088
70°	190
75°	205
80°	236
85°	270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21464 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.6	5.0
10°-20°	1329.2	14.0
20°-30°	1960.3	20.7
30°-40°	2254.1	23.8
40°-50°	2137.0	22.6
50°-60°	1172.3	12.4
60°-70°	124.1	1.3
70°-80°	10.2	0.1
80°-90°	4.6	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°	3762.1	39.8
0°-40°	6016.2	63.6
0°-60°	9325.5	98.5
0°-90°	9464.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9464.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5022	
5°	4989	473
15°	4716	1329
25°	4262	1960
35°	3612	2254
45°	2776	2137
55°	1307	1172
65°	84	124
75°	10	10
85°	4	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5022.4
2.5°	5017.0
5°	4989.0
7.5°	4940.5
10°	4878.0
12.5°	4803.6
15°	4716.3
17.5°	4618.3
20°	4509.4
22.5°	4390.9
25°	4261.5
27.5°	4117.1
30°	3960.8
32.5°	3792.7
35°	3611.6
37.5°	3418.7
40°	3215.0
42.5°	3001.6
45°	2776.3
47.5°	2546.8
50°	2309.7
52.5°	1898.0
55°	1307.3
57.5°	748.0
60°	395.5
62.5°	205.9
65°	84.1
67.5°	16.2
70°	11.9
72.5°	10.8
75°	9.7
77.5°	8.6
80°	7.5
82.5°	6.5
85°	4.3
87.5°	2.2
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	16.81	18.17	17.17	18.48	18.79	16.81	18.17	17.17	18.48	18.79
	3H	16.68	17.88	17.06	18.21	18.57	16.68	17.88	17.06	18.21	18.57
	4H	16.61	17.72	17.02	18.07	18.45	16.61	17.72	17.02	18.07	18.45
	6H	16.54	17.55	16.95	17.92	18.32	16.54	17.55	16.95	17.92	18.32
	8H	16.50	17.46	16.93	17.85	18.25	16.50	17.46	16.93	17.85	18.25
	12H	16.46	17.37	16.89	17.75	18.18	16.46	17.37	16.89	17.75	18.18
4H	2H	16.64	17.74	17.04	18.09	18.48	16.64	17.74	17.04	18.09	18.48
	3H	16.52	17.40	16.93	17.81	18.21	16.52	17.40	16.93	17.81	18.21
	4H	16.43	17.22	16.87	17.64	18.08	16.43	17.22	16.87	17.64	18.08
	6H	16.35	17.03	16.82	17.48	17.94	16.35	17.03	16.82	17.48	17.94
	8H	16.30	16.93	16.77	17.38	17.85	16.30	16.93	16.77	17.38	17.85
	12H	16.25	16.81	16.74	17.29	17.77	16.25	16.81	16.74	17.29	17.77
8H	4H	16.29	16.92	16.76	17.37	17.84	16.29	16.92	16.76	17.37	17.84
	6H	16.19	16.71	16.69	17.21	17.69	16.19	16.71	16.69	17.21	17.69
	8H	16.12	16.60	16.64	17.11	17.60	16.12	16.60	16.64	17.11	17.60
	12H	16.07	16.50	16.59	16.99	17.56	16.07	16.50	16.59	16.99	17.56
12H	4H	16.24	16.80	16.73	17.29	17.76	16.24	16.80	16.73	17.29	17.76
	6H	16.12	16.59	16.64	17.11	17.60	16.12	16.59	16.64	17.11	17.60
	8H	16.07	16.50	16.59	16.99	17.56	16.07	16.50	16.59	16.99	17.56