

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: P866660

Luminaire Tested: PRLX-2001-L-927-100L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866660
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: Pentalux
Catalog Number: PRLX-2001-L-927-100L-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 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

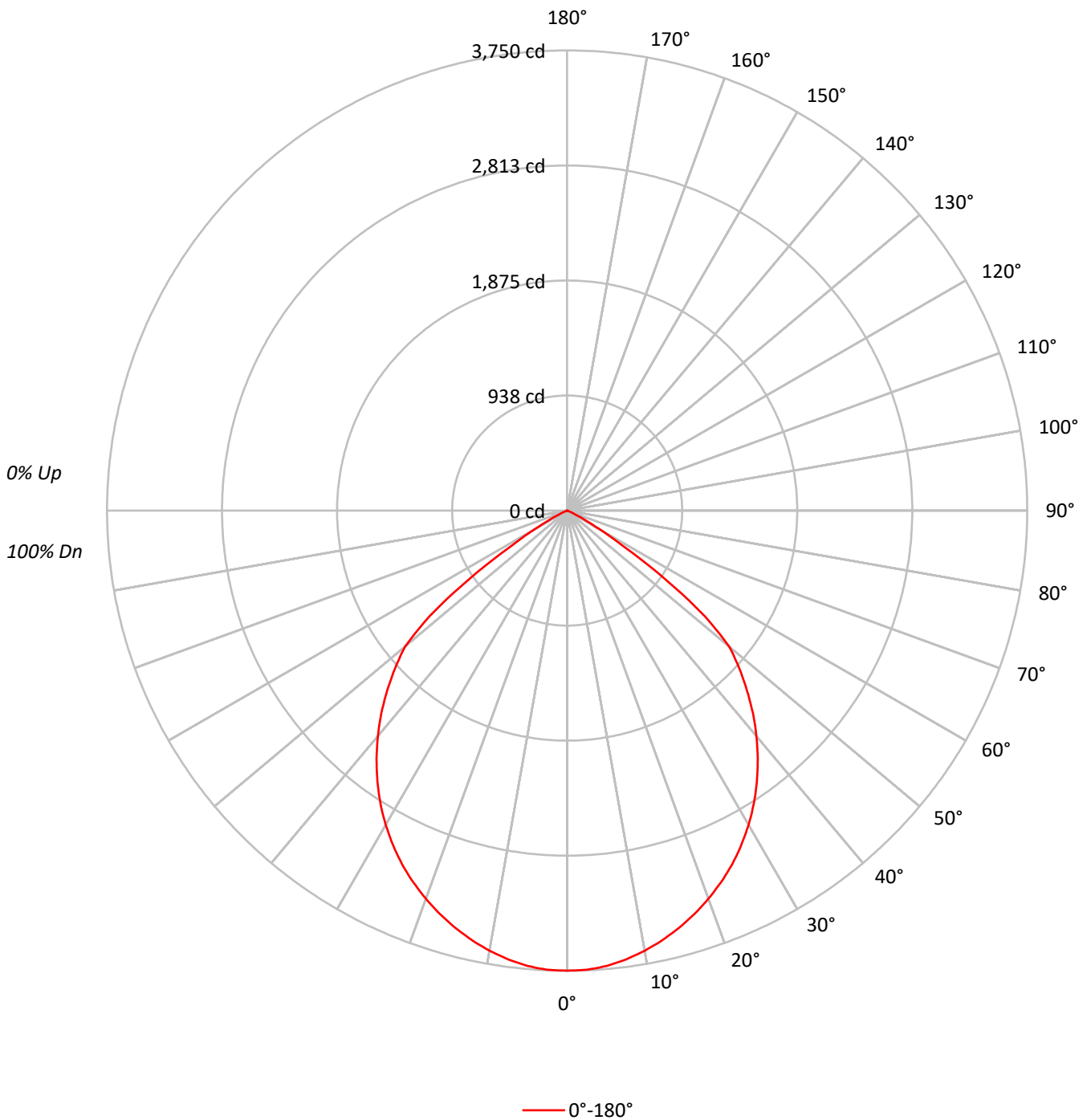
Lumens per Lamp: N/A
Luminaire Lumens: 7066.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	20499
5°	20440
10°	20217
15°	19929
20°	19586
25°	19191
30°	18667
35°	17995
40°	17130
45°	16025
50°	14666
55°	9302
60°	3229
65°	812
70°	142
75°	152
80°	176
85°	201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16025 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.8	5.0
10°-20°	992.4	14.0
20°-30°	1463.5	20.7
30°-40°	1682.9	23.8
40°-50°	1595.5	22.6
50°-60°	875.2	12.4
60°-70°	92.7	1.3
70°-80°	7.6	0.1
80°-90°	3.4	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°	2808.8	39.8
0°-40°	4491.7	63.6
0°-60°	6962.4	98.5
0°-90°	7066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7066.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3750	
5°	3725	353
15°	3521	992
25°	3182	1464
35°	2696	1683
45°	2073	1595
55°	976	875
65°	63	93
75°	7	8
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3749.7
2.5°	3745.7
5°	3724.7
7.5°	3688.5
10°	3641.9
12.5°	3586.3
15°	3521.2
17.5°	3447.9
20°	3366.7
22.5°	3278.2
25°	3181.6
27.5°	3073.8
30°	2957.1
32.5°	2831.6
35°	2696.4
37.5°	2552.4
40°	2400.3
42.5°	2241.0
45°	2072.8
47.5°	1901.4
50°	1724.4
52.5°	1417.0
55°	976.0
57.5°	558.4
60°	295.3
62.5°	153.7
65°	62.8
67.5°	12.1
70°	8.9
72.5°	8.0
75°	7.2
77.5°	6.4
80°	5.6
82.5°	4.8
85°	3.2
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	15.79	17.15	16.16	17.46	17.78	15.79	17.15	16.16	17.46	17.78
	3H	15.67	16.86	16.05	17.19	17.55	15.67	16.86	16.05	17.19	17.55
	4H	15.60	16.70	16.00	17.05	17.44	15.60	16.70	16.00	17.05	17.44
	6H	15.52	16.54	15.94	16.91	17.30	15.52	16.54	15.94	16.91	17.30
	8H	15.48	16.44	15.91	16.83	17.24	15.48	16.44	15.91	16.83	17.24
	12H	15.44	16.36	15.87	16.74	17.17	15.44	16.36	15.87	16.74	17.17
4H	2H	15.62	16.73	16.03	17.08	17.46	15.62	16.73	16.03	17.08	17.46
	3H	15.50	16.39	15.91	16.79	17.19	15.50	16.39	15.91	16.79	17.19
	4H	15.42	16.20	15.85	16.62	17.06	15.42	16.20	15.85	16.62	17.06
	6H	15.34	16.01	15.80	16.46	16.93	15.34	16.01	15.80	16.46	16.93
	8H	15.28	15.91	15.75	16.36	16.83	15.28	15.91	15.75	16.36	16.83
	12H	15.23	15.79	15.72	16.28	16.75	15.23	15.79	15.72	16.28	16.75
8H	4H	15.28	15.91	15.75	16.36	16.83	15.28	15.91	15.75	16.36	16.83
	6H	15.17	15.69	15.67	16.19	16.67	15.17	15.69	15.67	16.19	16.67
	8H	15.11	15.58	15.63	16.10	16.59	15.11	15.58	15.63	16.10	16.59
	12H	15.06	15.48	15.57	15.98	16.55	15.06	15.48	15.57	15.98	16.55
12H	4H	15.23	15.79	15.71	16.27	16.74	15.23	15.79	15.71	16.27	16.74
	6H	15.10	15.58	15.63	16.09	16.58	15.10	15.58	15.63	16.09	16.58
	8H	15.06	15.48	15.57	15.98	16.55	15.06	15.48	15.57	15.98	16.55