

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: P866666

Luminaire Tested: PRLX-2001-L-927-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-100L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

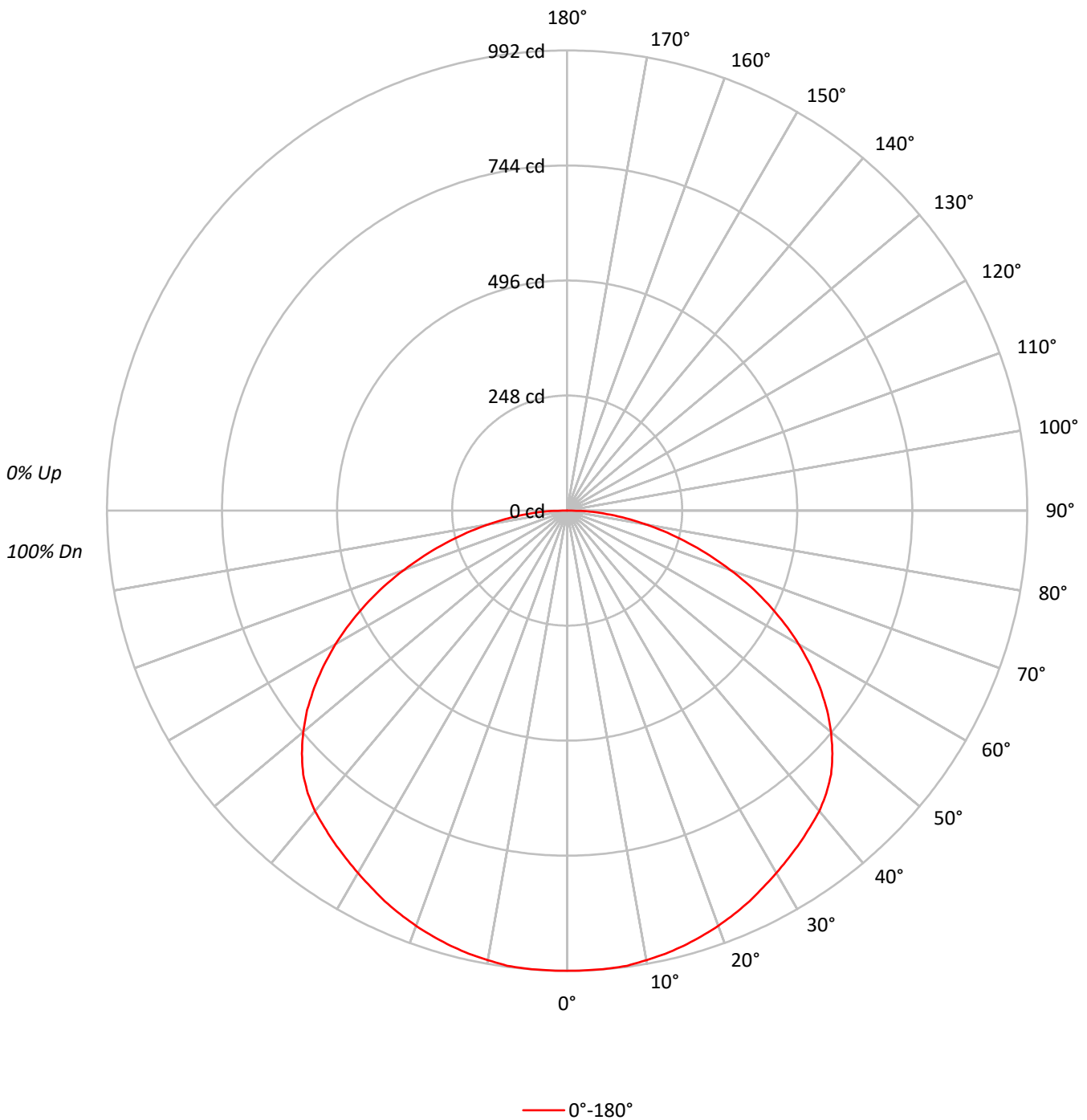
Lumens per Lamp: N/A
Luminaire Lumens: 3414.5 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5424
5°	5440
10°	5463
15°	5497
20°	5543
25°	5606
30°	5694
35°	5838
40°	6035
45°	6221
50°	6317
55°	6342
60°	6308
65°	6194
70°	5981
75°	5728
80°	5446
85°	5401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6345 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	2.8
10°-20°	274.5	8.0
20°-30°	429.1	12.6
30°-40°	548.5	16.1
40°-50°	618.8	18.1
50°-60°	593.8	17.4
60°-70°	473.0	13.9
70°-80°	287.2	8.4
80°-90°	95.1	2.8
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°	798.0	23.4
0°-40°	1346.6	39.4
0°-60°	2559.1	75.0
0°-90°	3414.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	992	
5°	991	94
15°	971	275
25°	929	429
35°	875	549
45°	805	619
55°	665	594
65°	479	473
75°	271	287
85°	86	95
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	992.1
2.5°	992.1
5°	991.3
7.5°	989.7
10°	984.1
12.5°	978.5
15°	971.2
17.5°	962.4
20°	952.7
22.5°	941.4
25°	929.4
27.5°	915.7
30°	902.0
32.5°	888.3
35°	874.7
37.5°	860.2
40°	845.7
42.5°	827.2
45°	804.7
47.5°	775.7
50°	742.7
52.5°	706.5
55°	665.4
57.5°	622.0
60°	576.9
62.5°	528.7
65°	478.8
67.5°	428.1
70°	374.2
72.5°	322.7
75°	271.2
77.5°	221.3
80°	173.0
82.5°	127.9
85°	86.1
87.5°	49.1
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	18.83	20.54	19.20	20.86	21.17	18.83	20.54	19.20	20.86	21.17
	3H	20.79	22.35	21.17	22.67	23.03	20.79	22.35	21.17	22.67	23.03
	4H	21.55	23.02	21.95	23.37	23.74	21.55	23.02	21.95	23.37	23.74
	6H	22.15	23.52	22.56	23.88	24.27	22.15	23.52	22.56	23.88	24.27
	8H	22.37	23.68	22.79	24.06	24.46	22.37	23.68	22.79	24.06	24.46
	12H	22.54	23.80	22.97	24.18	24.60	22.54	23.80	22.97	24.18	24.60
4H	2H	19.52	20.99	19.92	21.34	21.71	19.52	20.99	19.92	21.34	21.71
	3H	21.71	22.95	22.11	23.34	23.74	21.71	22.95	22.11	23.34	23.74
	4H	22.60	23.73	23.03	24.14	24.57	22.60	23.73	23.03	24.14	24.57
	6H	23.34	24.33	23.79	24.77	25.22	23.34	24.33	23.79	24.77	25.22
	8H	23.62	24.55	24.08	24.99	25.45	23.62	24.55	24.08	24.99	25.45
	12H	23.85	24.69	24.33	25.16	25.63	23.85	24.69	24.33	25.16	25.63
8H	4H	22.97	23.89	23.42	24.34	24.80	22.97	23.89	23.42	24.34	24.80
	6H	23.85	24.63	24.34	25.11	25.58	23.85	24.63	24.34	25.11	25.58
	8H	24.22	24.91	24.72	25.42	25.90	24.22	24.91	24.72	25.42	25.90
	12H	24.55	25.17	25.05	25.65	26.21	24.55	25.17	25.05	25.65	26.21
12H	4H	23.02	23.86	23.50	24.33	24.80	23.02	23.86	23.50	24.33	24.80
	6H	23.93	24.63	24.44	25.13	25.62	23.93	24.63	24.44	25.13	25.62
	8H	24.37	24.99	24.87	25.48	26.03	24.37	24.99	24.87	25.48	26.03