

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: P867218

Luminaire Tested: PRLX-2004-L-927-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-927-48L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

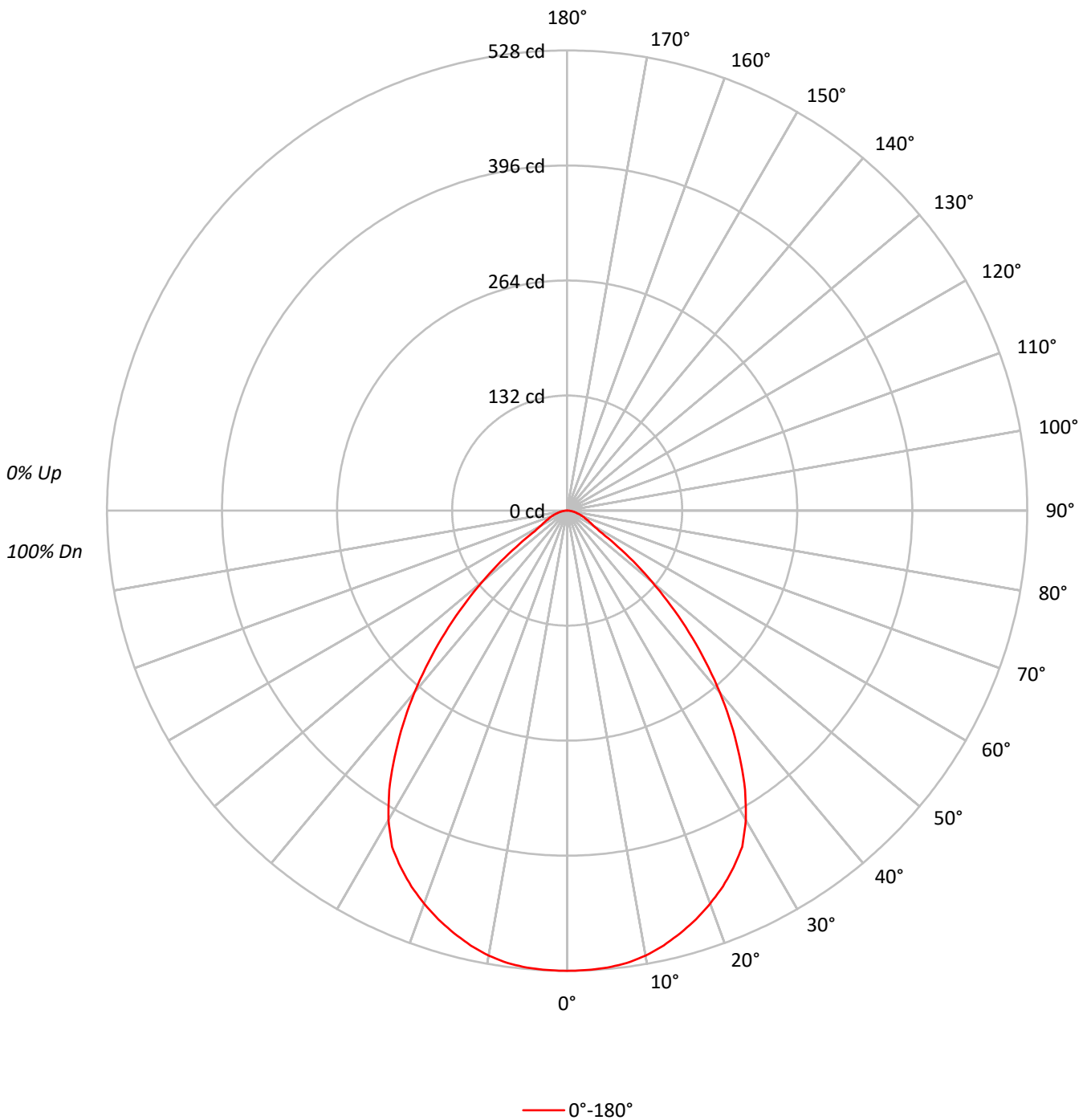
Lumens per Lamp: N/A
Luminaire Lumens: 871.3 lumens
Efficiency: N/A
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867218

CATALOG NUMBER: PRLX-2004-L-927-48L-G-X-X-GREY-X

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	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74	70	66	64
5	85	75	67	62	83	73	67	62	72	66	61		70	64	60		68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46		55	50	45		54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	39		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2606
5°	2608
10°	2598
15°	2564
20°	2520
25°	2460
30°	2336
35°	2079
40°	1755
45°	1381
50°	973
55°	568
60°	343
65°	295
70°	263
75°	233
80°	213
85°	204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	5.7
10°-20°	141.5	16.2
20°-30°	207.2	23.8
30°-40°	214.4	24.6
40°-50°	152.2	17.5
50°-60°	63.4	7.3
60°-70°	25.6	2.9
70°-80°	13.2	1.5
80°-90°	3.9	0.5
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°	398.7	45.8
0°-40°	613.1	70.4
0°-60°	828.6	95.1
0°-90°	871.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	871.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	528	
5°	526	50
15°	502	141
25°	452	207
35°	345	214
45°	198	152
55°	66	63
65°	25	26
75°	12	13
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	528.1
2.5°	527.7
5°	526.5
7.5°	523.7
10°	518.6
12.5°	511.1
15°	502.0
17.5°	491.7
20°	479.9
22.5°	466.9
25°	451.9
27.5°	434.9
30°	410.0
32.5°	380.0
35°	345.2
37.5°	309.3
40°	272.5
42.5°	235.0
45°	197.9
47.5°	161.5
50°	126.8
52.5°	95.6
55°	66.0
57.5°	43.8
60°	34.8
62.5°	30.0
65°	25.3
67.5°	21.7
70°	18.2
72.5°	15.0
75°	12.2
77.5°	9.9
80°	7.5
82.5°	5.5
85°	3.6
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	5.26	6.54	5.62	6.86	7.17	5.26	6.54	5.62	6.86	7.17
	3H	6.33	7.46	6.71	7.79	8.16	6.33	7.46	6.71	7.79	8.16
	4H	6.72	7.78	7.12	8.13	8.51	6.72	7.78	7.12	8.13	8.51
	6H	7.02	7.99	7.44	8.37	8.76	7.02	7.99	7.44	8.37	8.76
	8H	7.13	8.04	7.56	8.44	8.84	7.13	8.04	7.56	8.44	8.84
	12H	7.20	8.07	7.63	8.46	8.89	7.20	8.07	7.63	8.46	8.89
4H	2H	5.56	6.62	5.97	6.97	7.36	5.56	6.62	5.97	6.97	7.36
	3H	6.85	7.71	7.27	8.12	8.52	6.85	7.71	7.27	8.12	8.52
	4H	7.36	8.13	7.80	8.55	8.99	7.36	8.13	7.80	8.55	8.99
	6H	7.79	8.45	8.25	8.90	9.36	7.79	8.45	8.25	8.90	9.36
	8H	7.93	8.55	8.40	9.00	9.47	7.93	8.55	8.40	9.00	9.47
	12H	8.05	8.59	8.53	9.07	9.55	8.05	8.59	8.53	9.07	9.55
8H	4H	7.52	8.13	7.99	8.58	9.05	7.52	8.13	7.99	8.58	9.05
	6H	8.05	8.56	8.55	9.05	9.54	8.05	8.56	8.55	9.05	9.54
	8H	8.26	8.72	8.79	9.24	9.73	8.26	8.72	8.79	9.24	9.73
	12H	8.46	8.86	8.97	9.35	9.93	8.46	8.86	8.97	9.35	9.93
12H	4H	7.51	8.06	8.00	8.54	9.02	7.51	8.06	8.00	8.54	9.02
	6H	8.07	8.52	8.59	9.04	9.53	8.07	8.52	8.59	9.04	9.53
	8H	8.34	8.74	8.85	9.24	9.81	8.34	8.74	8.85	9.24	9.81