

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: P867234

Luminaire Tested: PRLX-2004-L-927-83L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867234
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-927-83L-G-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

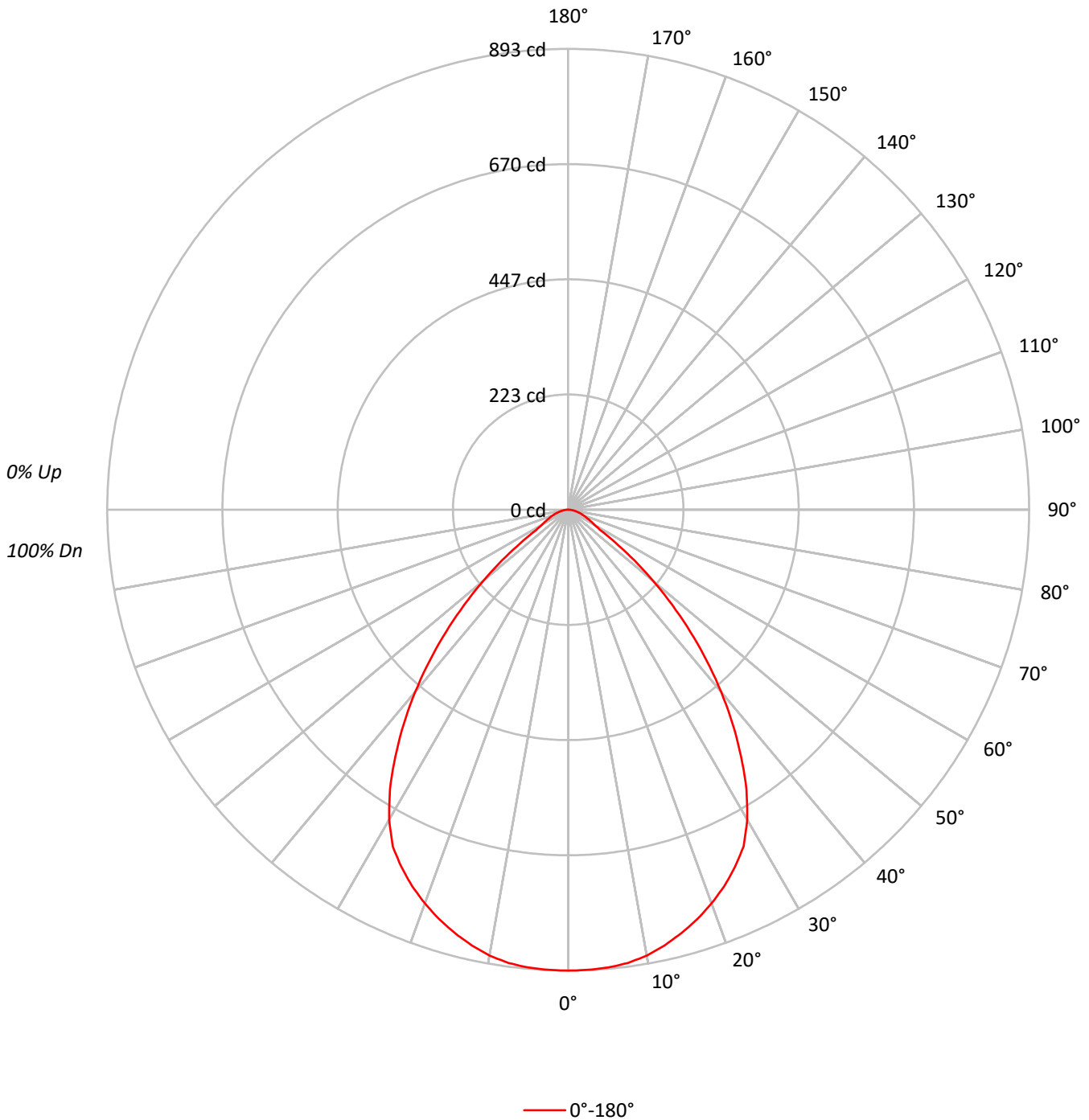
Lumens per Lamp: N/A
Luminaire Lumens: 1473.8 lumens
Efficiency: N/A
Efficacy: 22.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: 0.333 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	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°	4407
5°	4411
10°	4395
15°	4338
20°	4262
25°	4161
30°	3951
35°	3517
40°	2969
45°	2335
50°	1646
55°	960
60°	580
65°	500
70°	443
75°	395
80°	361
85°	340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2335 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	5.7
10°-20°	239.3	16.2
20°-30°	350.5	23.8
30°-40°	362.6	24.6
40°-50°	257.5	17.5
50°-60°	107.2	7.3
60°-70°	43.3	2.9
70°-80°	22.3	1.5
80°-90°	6.7	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°	674.4	45.8
0°-40°	1036.9	70.4
0°-60°	1401.6	95.1
0°-90°	1473.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	893	
5°	891	85
15°	849	239
25°	764	350
35°	584	363
45°	335	257
55°	112	107
65°	43	43
75°	21	22
85°	6	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	893.2
2.5°	892.6
5°	890.6
7.5°	885.9
10°	877.2
12.5°	864.5
15°	849.2
17.5°	831.8
20°	811.7
22.5°	789.7
25°	764.3
27.5°	735.6
30°	693.5
32.5°	642.7
35°	583.9
37.5°	523.1
40°	461.0
42.5°	397.5
45°	334.7
47.5°	273.3
50°	214.5
52.5°	161.7
55°	111.6
57.5°	74.2
60°	58.8
62.5°	50.8
65°	42.8
67.5°	36.7
70°	30.7
72.5°	25.4
75°	20.7
77.5°	16.7
80°	12.7
82.5°	9.4
85°	6.0
87.5°	2.7
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	7.09	8.38	7.46	8.69	9.01	7.09	8.38	7.46	8.69	9.01
	3H	8.16	9.29	8.54	9.62	9.99	8.16	9.29	8.54	9.62	9.99
	4H	8.55	9.61	8.95	9.96	10.34	8.55	9.61	8.95	9.96	10.34
	6H	8.85	9.82	9.27	10.20	10.59	8.85	9.82	9.27	10.20	10.59
	8H	8.96	9.88	9.39	10.27	10.67	8.96	9.88	9.39	10.27	10.67
	12H	9.03	9.91	9.46	10.29	10.72	9.03	9.91	9.46	10.29	10.72
4H	2H	7.40	8.46	7.80	8.81	9.19	7.40	8.46	7.80	8.81	9.19
	3H	8.68	9.54	9.09	9.95	10.35	8.68	9.54	9.09	9.95	10.35
	4H	9.19	9.96	9.63	10.38	10.82	9.19	9.96	9.63	10.38	10.82
	6H	9.62	10.28	10.08	10.73	11.19	9.62	10.28	10.08	10.73	11.19
	8H	9.76	10.38	10.23	10.83	11.30	9.76	10.38	10.23	10.83	11.30
	12H	9.88	10.42	10.36	10.90	11.38	9.88	10.42	10.36	10.90	11.38
8H	4H	9.35	9.96	9.82	10.41	10.88	9.35	9.96	9.82	10.41	10.88
	6H	9.88	10.39	10.38	10.88	11.36	9.88	10.39	10.38	10.88	11.36
	8H	10.10	10.55	10.62	11.07	11.56	10.10	10.55	10.62	11.07	11.56
	12H	10.29	10.69	10.80	11.18	11.76	10.29	10.69	10.80	11.18	11.76
12H	4H	9.34	9.89	9.83	10.37	10.85	9.34	9.89	9.83	10.37	10.85
	6H	9.90	10.35	10.42	10.87	11.36	9.90	10.35	10.42	10.87	11.36
	8H	10.17	10.57	10.69	11.07	11.64	10.17	10.57	10.69	11.07	11.64