

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: P867294

Luminaire Tested: PRLX-2004-L-930-83L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-930-83L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

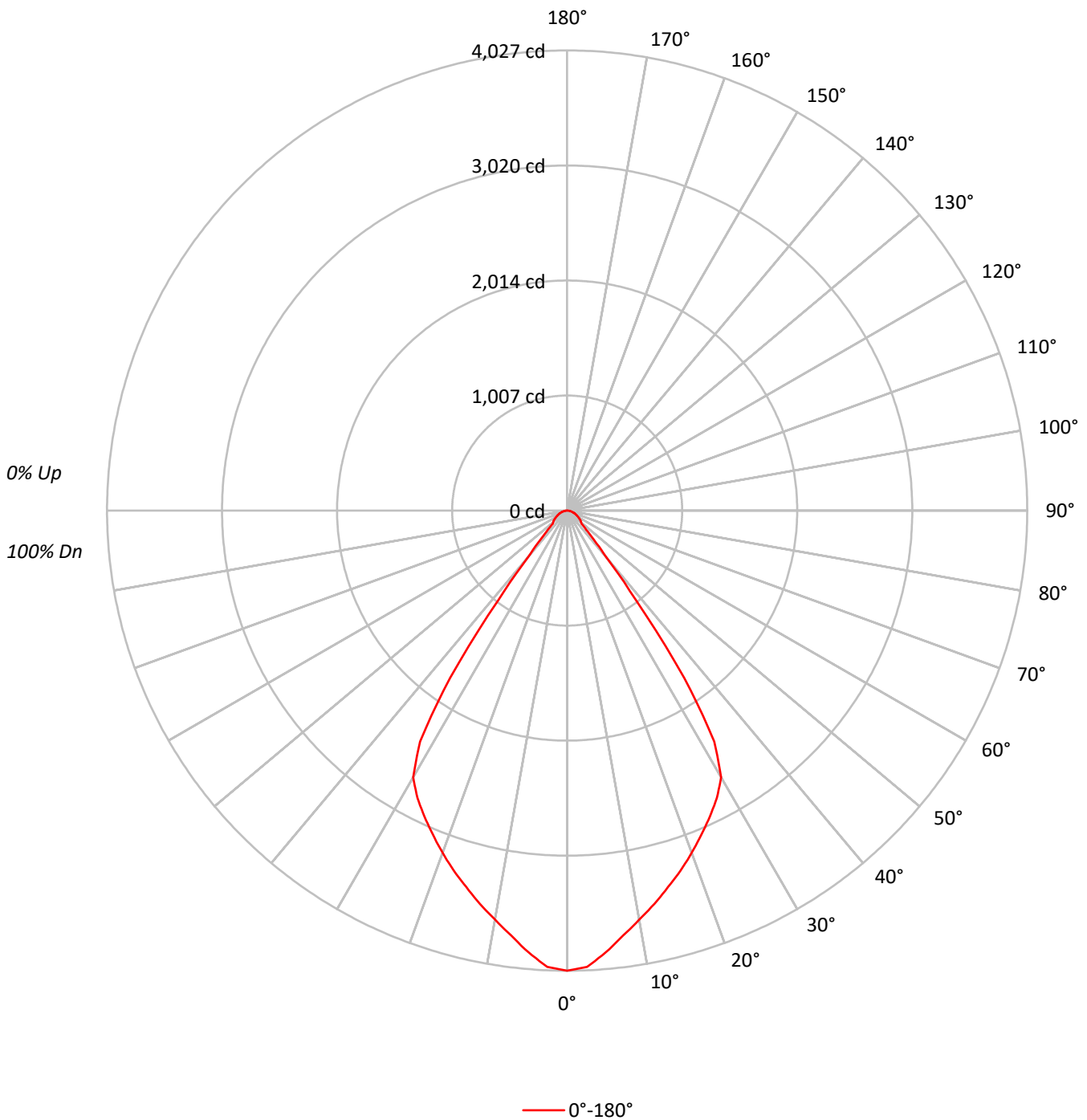
Lumens per Lamp: N/A
Luminaire Lumens: 4198.9 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P867294

CATALOG NUMBER: PRLX-2004-L-930-83L-L-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	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75		81	77	74		79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64		71	67	63		70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55		63	58	55		62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51		60	55	51		59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48		56	51	48		56	51	48	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19867
5°	19221
10°	18215
15°	17424
20°	16732
25°	16080
30°	15354
35°	10755
40°	3384
45°	1641
50°	1223
55°	1181
60°	1100
65°	1018
70°	949
75°	886
80°	832
85°	770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1641 cd/sqm

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CATALOG NUMBER: PRLX-2004-L-930-83L-L-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	8.6
10°-20°	960.9	22.9
20°-30°	1359.0	32.4
30°-40°	1034.9	24.6
40°-50°	208.0	5.0
50°-60°	122.0	2.9
60°-70°	86.8	2.1
70°-80°	49.5	1.2
80°-90°	15.2	0.4
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°	2682.4	63.9
0°-40°	3717.3	88.5
0°-60°	4047.3	96.4
0°-90°	4198.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4198.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4027	
5°	3881	363
15°	3411	961
25°	2954	1359
35°	1786	1035
45°	235	208
55°	137	122
65°	87	87
75°	46	50
85°	14	15
90°	0	

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CATALOG NUMBER: PRLX-2004-L-930-83L-L-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	4026.7
2.5°	3996.7
5°	3880.9
7.5°	3750.8
10°	3635.7
12.5°	3524.9
15°	3411.3
17.5°	3302.6
20°	3186.8
22.5°	3069.6
25°	2953.7
27.5°	2836.5
30°	2695.0
32.5°	2395.5
35°	1785.7
37.5°	987.2
40°	525.4
42.5°	347.4
45°	235.2
47.5°	169.4
50°	159.4
52.5°	149.4
55°	137.3
57.5°	123.7
60°	111.5
62.5°	98.6
65°	87.2
67.5°	76.5
70°	65.8
72.5°	55.8
75°	46.5
77.5°	37.9
80°	29.3
82.5°	21.4
85°	13.6
87.5°	6.4
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	7.36	8.41	7.72	8.72	9.04	7.36	8.41	7.72	8.72	9.04
	3H	8.92	9.85	9.30	10.18	10.55	8.92	9.85	9.30	10.18	10.55
	4H	9.51	10.38	9.92	10.73	11.12	9.51	10.38	9.92	10.73	11.12
	6H	9.97	10.76	10.39	11.13	11.53	9.97	10.76	10.39	11.13	11.53
	8H	10.13	10.87	10.56	11.26	11.67	10.13	10.87	10.56	11.26	11.67
	12H	10.22	10.93	10.66	11.32	11.75	10.22	10.93	10.66	11.32	11.75
4H	2H	7.82	8.68	8.23	9.04	9.43	7.82	8.68	8.23	9.04	9.43
	3H	9.60	10.30	10.01	10.71	11.12	9.60	10.30	10.01	10.71	11.12
	4H	10.31	10.94	10.75	11.37	11.81	10.31	10.94	10.75	11.37	11.81
	6H	10.90	11.44	11.37	11.89	12.36	10.90	11.44	11.37	11.89	12.36
	8H	11.10	11.60	11.58	12.05	12.53	11.10	11.60	11.58	12.05	12.53
	12H	11.25	11.68	11.74	12.17	12.65	11.25	11.68	11.74	12.17	12.65
8H	4H	10.53	11.04	11.01	11.49	11.96	10.53	11.04	11.01	11.49	11.96
	6H	11.26	11.66	11.77	12.16	12.65	11.26	11.66	11.77	12.16	12.65
	8H	11.55	11.90	12.08	12.42	12.92	11.55	11.90	12.08	12.42	12.92
	12H	11.78	12.09	12.30	12.59	13.17	11.78	12.09	12.30	12.59	13.17
12H	4H	10.54	10.97	11.03	11.46	11.94	10.54	10.97	11.03	11.46	11.94
	6H	11.30	11.65	11.83	12.18	12.67	11.30	11.65	11.83	12.18	12.67
	8H	11.64	11.95	12.17	12.45	13.03	11.64	11.95	12.17	12.45	13.03