

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: P866226

Luminaire Tested: PRLX-2002-M-930-15L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-15L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

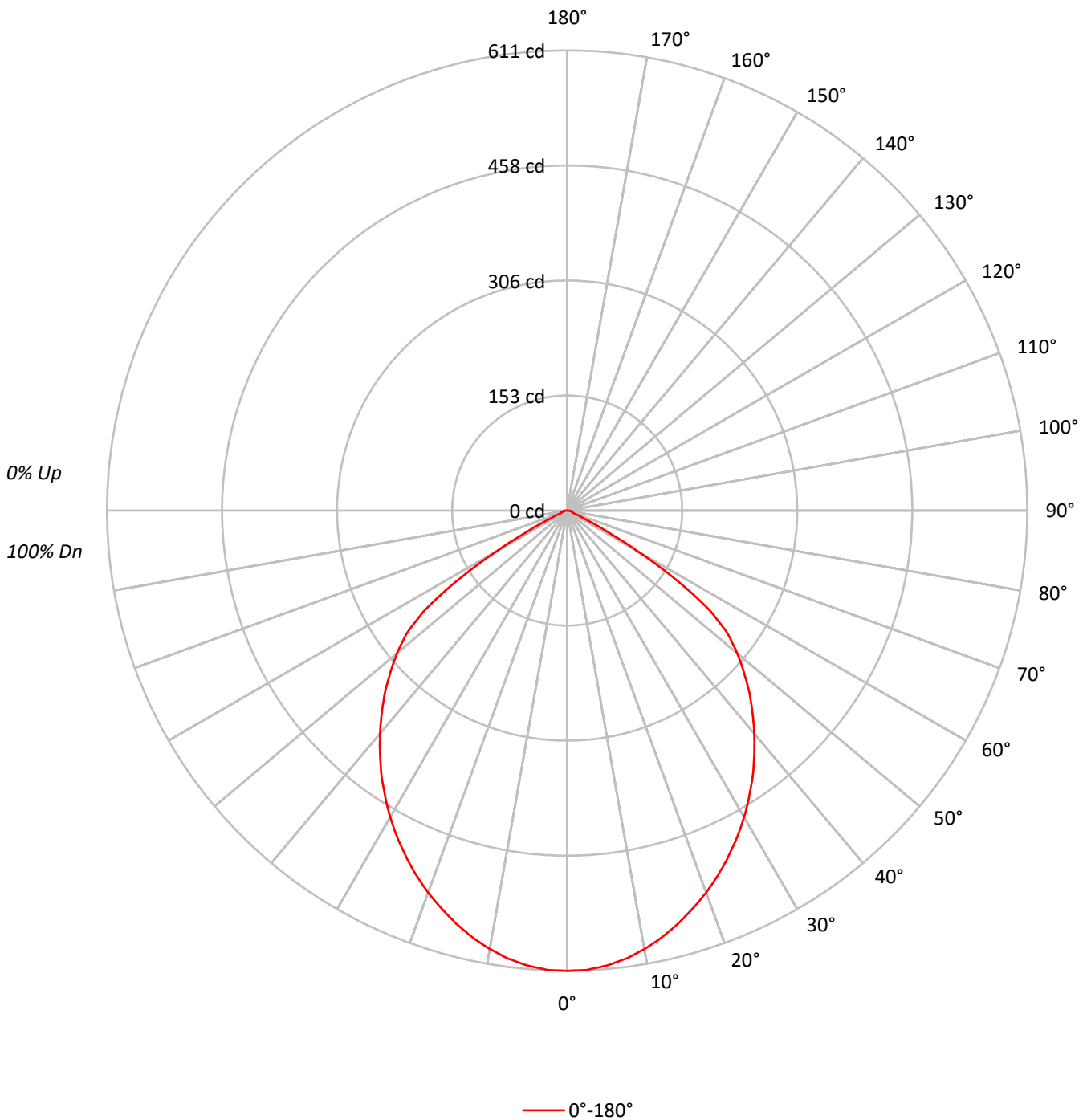
Lumens per Lamp: N/A
Luminaire Lumens: 1224.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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

TEST NUMBER: P866226

CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866226

CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-X-X-GREY-X

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	111	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84		89	85	82		86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73		80	76	72		78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64		73	67	63		71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	64	56	51	62	55	50		60	54	50		59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45		55	49	45		54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	41		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	37		46	40	36	35
10	58	46	39	34	57	45	38	34	45	38	34		44	38	33		43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4863
5°	4843
10°	4776
15°	4679
20°	4570
25°	4448
30°	4318
35°	4173
40°	4015
45°	3851
50°	3649
55°	3215
60°	1714
65°	450
70°	186
75°	209
80°	238
85°	292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3851 cd/sqm

TEST NUMBER: P866226

CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	4.7
10°-20°	160.0	13.1
20°-30°	233.3	19.1
30°-40°	268.5	21.9
40°-50°	263.4	21.5
50°-60°	195.1	15.9
60°-70°	36.0	2.9
70°-80°	7.1	0.6
80°-90°	3.2	0.3
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°	450.7	36.8
0°-40°	719.2	58.8
0°-60°	1177.7	96.2
0°-90°	1224.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	611	
5°	606	57
15°	568	160
25°	507	233
35°	430	268
45°	342	263
55°	232	195
65°	24	36
75°	7	7
85°	3	3
90°	0	

TEST NUMBER: P866226

CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	611.2
2.5°	610.4
5°	606.4
7.5°	600.0
10°	591.2
12.5°	580.5
15°	568.1
17.5°	554.1
20°	539.8
22.5°	523.8
25°	506.7
27.5°	488.7
30°	470.0
32.5°	450.0
35°	429.7
37.5°	408.1
40°	386.6
42.5°	364.2
45°	342.3
47.5°	318.4
50°	294.8
52.5°	268.9
55°	231.8
57.5°	175.1
60°	107.7
62.5°	55.5
65°	23.9
67.5°	10.4
70°	8.0
72.5°	7.6
75°	6.8
77.5°	6.0
80°	5.2
82.5°	4.4
85°	3.2
87.5°	1.6
90°	0.0



TEST NUMBER: P866226
 CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-X-X-GREY-X

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	15.09	16.52	15.45	16.83	17.14	15.09	16.52	15.45	16.83	17.14
	3H	14.99	16.25	15.37	16.57	16.94	14.99	16.25	15.37	16.57	16.94
	4H	14.93	16.10	15.34	16.45	16.83	14.93	16.10	15.34	16.45	16.83
	6H	14.88	15.95	15.29	16.32	16.71	14.88	15.95	15.29	16.32	16.71
	8H	14.85	15.87	15.28	16.26	16.66	14.85	15.87	15.28	16.26	16.66
	12H	14.82	15.79	15.25	16.18	16.61	14.82	15.79	15.25	16.18	16.61
4H	2H	14.94	16.11	15.34	16.46	16.84	14.94	16.11	15.34	16.46	16.84
	3H	14.85	15.80	15.26	16.20	16.60	14.85	15.80	15.26	16.20	16.60
	4H	14.79	15.63	15.23	16.05	16.49	14.79	15.63	15.23	16.05	16.49
	6H	14.75	15.47	15.21	15.92	16.38	14.75	15.47	15.21	15.92	16.38
	8H	14.71	15.39	15.18	15.83	16.30	14.71	15.39	15.18	15.83	16.30
	12H	14.69	15.29	15.17	15.77	16.24	14.69	15.29	15.17	15.77	16.24
8H	4H	14.68	15.35	15.14	15.80	16.27	14.68	15.35	15.14	15.80	16.27
	6H	14.62	15.18	15.12	15.67	16.15	14.62	15.18	15.12	15.67	16.15
	8H	14.58	15.09	15.10	15.60	16.09	14.58	15.09	15.10	15.60	16.09
	12H	14.57	15.02	15.08	15.52	16.08	14.57	15.02	15.08	15.52	16.08
12H	4H	14.64	15.24	15.12	15.72	16.19	14.64	15.24	15.12	15.72	16.19
	6H	14.56	15.07	15.08	15.58	16.07	14.56	15.07	15.08	15.58	16.07
	8H	14.55	15.00	15.06	15.50	16.06	14.55	15.00	15.06	15.50	16.06