

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: P865650

Luminaire Tested: PRLX-2002-S-930-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-25L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

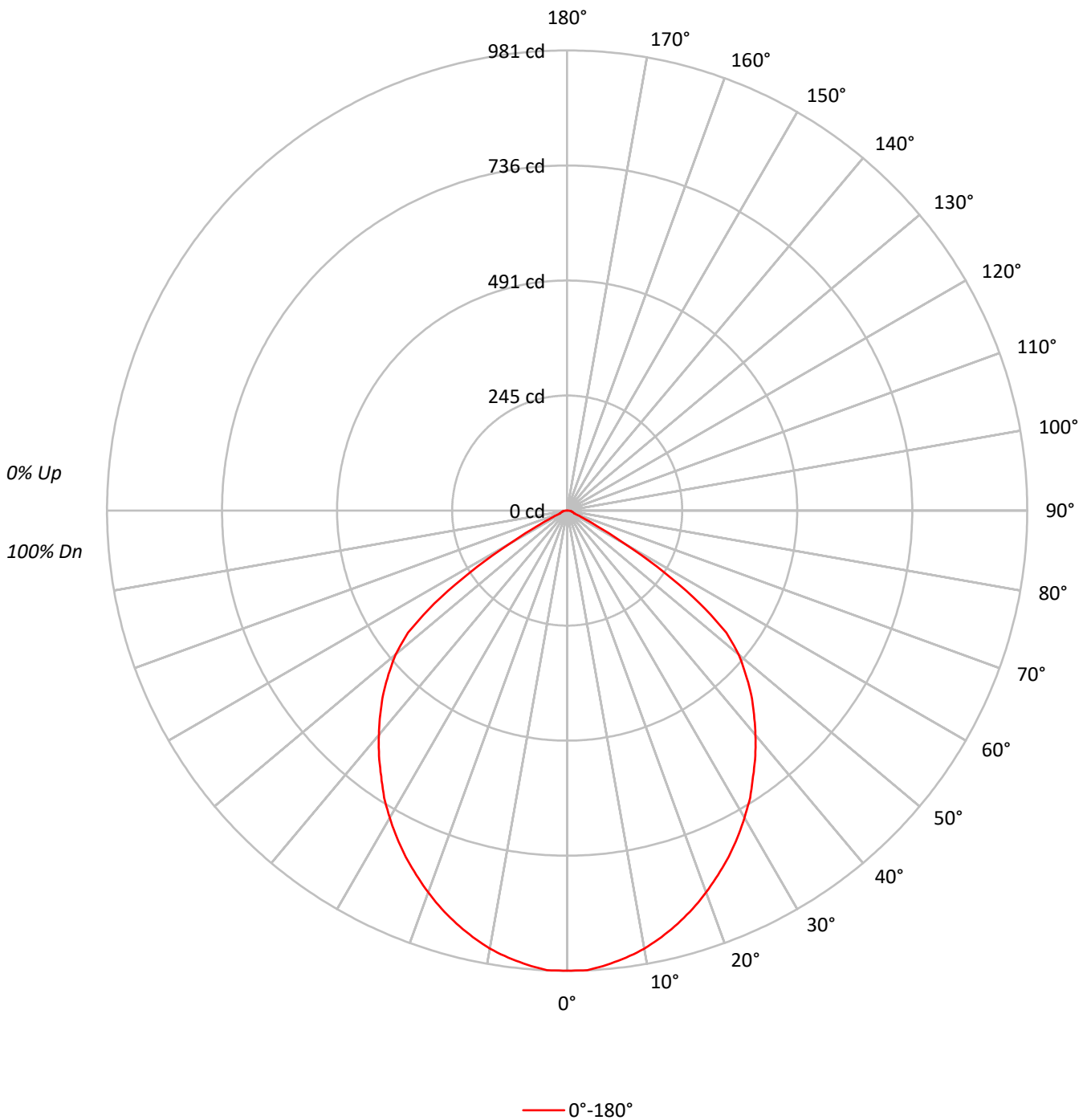
Lumens per Lamp: N/A
Luminaire Lumens: 1947.8 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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: P865650

CATALOG NUMBER: PRLX-2002-S-930-25L-L-U-S-X-X-GREY-X

Luminous Intensity Polar Plot



TEST NUMBER: P865650

CATALOG NUMBER: PRLX-2002-S-930-25L-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	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18424
5°	18332
10°	18090
15°	17730
20°	17317
25°	16881
30°	16400
35°	15852
40°	15311
45°	14749
50°	13951
55°	11321
60°	5357
65°	1631
70°	829
75°	944
80°	930
85°	1401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14749 cd/sqm

TEST NUMBER: P865650

CATALOG NUMBER: PRLX-2002-S-930-25L-L-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	4.7
10°-20°	256.8	13.2
20°-30°	374.9	19.2
30°-40°	432.8	22.2
40°-50°	426.8	21.9
50°-60°	295.3	15.2
60°-70°	50.4	2.6
70°-80°	12.8	0.7
80°-90°	5.9	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°	723.7	37.2
0°-40°	1156.6	59.4
0°-60°	1878.6	96.4
0°-90°	1947.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1947.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	981	
5°	972	92
15°	912	257
25°	814	375
35°	691	433
45°	555	427
55°	346	295
65°	37	50
75°	13	13
85°	6	6
90°	0	

TEST NUMBER: P865650

CATALOG NUMBER: PRLX-2002-S-930-25L-L-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	980.8
2.5°	980.8
5°	972.2
7.5°	961.4
10°	948.4
12.5°	931.1
15°	911.7
17.5°	890.1
20°	866.3
22.5°	840.4
25°	814.5
27.5°	786.4
30°	756.1
32.5°	725.9
35°	691.3
37.5°	658.9
40°	624.4
42.5°	589.8
45°	555.2
47.5°	516.3
50°	477.4
52.5°	427.8
55°	345.7
57.5°	246.3
60°	142.6
62.5°	73.5
65°	36.7
67.5°	17.3
70°	15.1
72.5°	13.0
75°	13.0
77.5°	10.8
80°	8.6
82.5°	8.6
85°	6.5
87.5°	2.2
90°	0.0



TEST NUMBER: P865650
 CATALOG NUMBER: PRLX-2002-S-930-25L-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	18.82	20.24	19.19	20.55	20.87	18.82	20.24	19.19	20.55	20.87
	3H	18.73	19.98	19.11	20.31	20.67	18.73	19.98	19.11	20.31	20.67
	4H	18.69	19.85	19.09	20.20	20.58	18.69	19.85	19.09	20.20	20.58
	6H	18.64	19.71	19.05	20.07	20.47	18.64	19.71	19.05	20.07	20.47
	8H	18.62	19.63	19.05	20.02	20.42	18.62	19.63	19.05	20.02	20.42
	12H	18.60	19.56	19.03	19.95	20.38	18.60	19.56	19.03	19.95	20.38
4H	2H	18.68	19.84	19.08	20.19	20.57	18.68	19.84	19.08	20.19	20.57
	3H	18.60	19.54	19.02	19.94	20.35	18.60	19.54	19.02	19.94	20.35
	4H	18.56	19.39	19.00	19.81	20.25	18.56	19.39	19.00	19.81	20.25
	6H	18.53	19.25	18.99	19.69	20.16	18.53	19.25	18.99	19.69	20.16
	8H	18.51	19.18	18.98	19.63	20.10	18.51	19.18	18.98	19.63	20.10
	12H	18.50	19.10	18.99	19.58	20.05	18.50	19.10	18.99	19.58	20.05
8H	4H	18.45	19.12	18.92	19.57	20.04	18.45	19.12	18.92	19.57	20.04
	6H	18.41	18.97	18.91	19.46	19.94	18.41	18.97	18.91	19.46	19.94
	8H	18.40	18.90	18.92	19.42	19.91	18.40	18.90	18.92	19.42	19.91
	12H	18.41	18.87	18.93	19.36	19.93	18.41	18.87	18.93	19.36	19.93
12H	4H	18.41	19.01	18.90	19.49	19.96	18.41	19.01	18.90	19.49	19.96
	6H	18.36	18.86	18.88	19.38	19.87	18.36	18.86	18.88	19.38	19.87
	8H	18.37	18.83	18.89	19.32	19.89	18.37	18.83	18.89	19.32	19.89