

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: P865610

Luminaire Tested: PRLX-2002-S-927-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865610
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-927-25L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

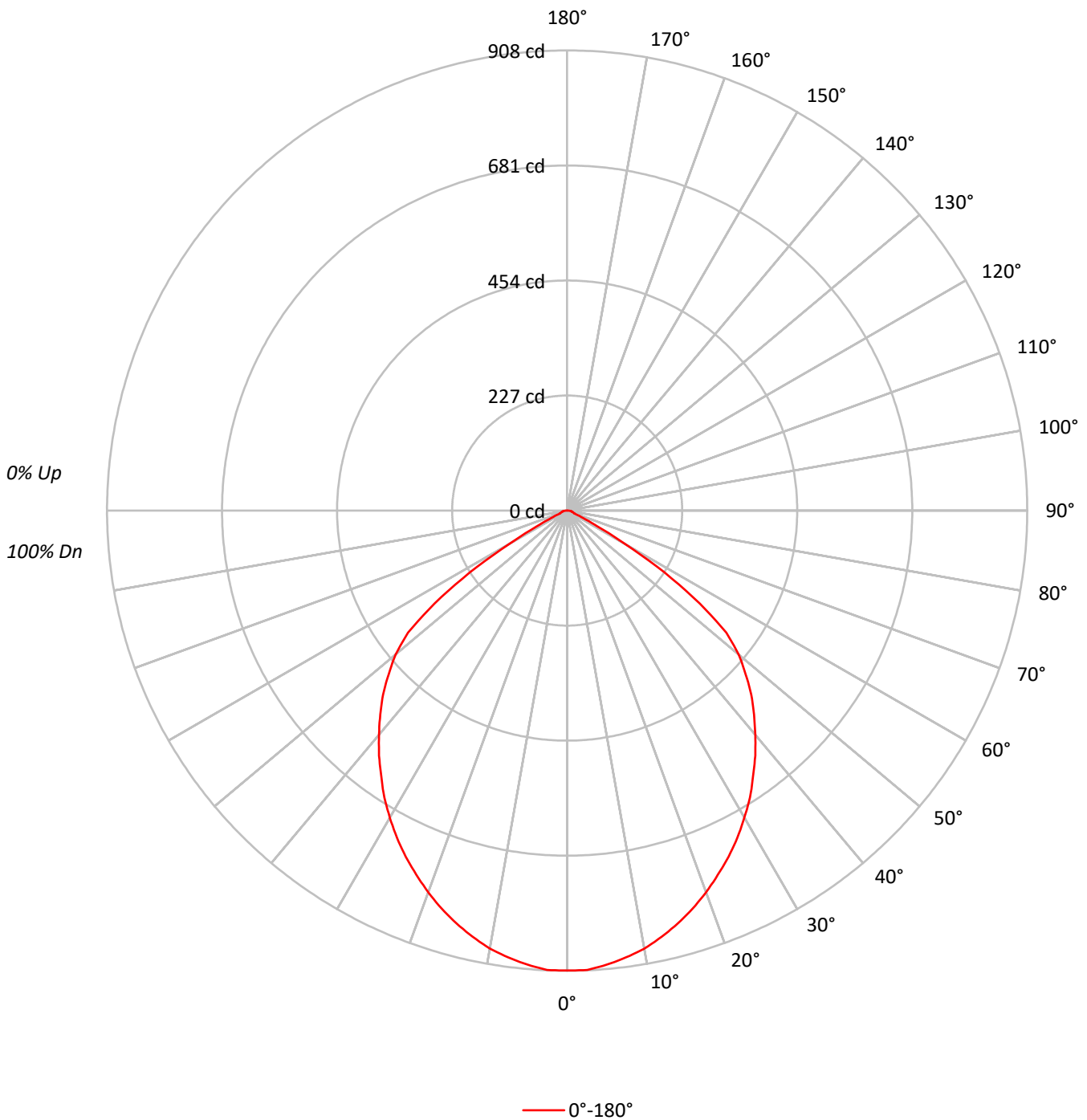
Lumens per Lamp: N/A
Luminaire Lumens: 1802.2 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: P865610

CATALOG NUMBER: PRLX-2002-S-927-25L-L-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865610

CATALOG NUMBER: PRLX-2002-S-927-25L-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°	17047
5°	16961
10°	16737
15°	16403
20°	16024
25°	15619
30°	15174
35°	14669
40°	14166
45°	13646
50°	12911
55°	10473
60°	4955
65°	1511
70°	769
75°	871
80°	865
85°	1293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13646 cd/sqm

TEST NUMBER: P865610

CATALOG NUMBER: PRLX-2002-S-927-25L-L-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	4.7
10°-20°	237.6	13.2
20°-30°	346.9	19.2
30°-40°	400.5	22.2
40°-50°	394.9	21.9
50°-60°	273.2	15.2
60°-70°	46.7	2.6
70°-80°	11.9	0.7
80°-90°	5.4	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°	669.6	37.2
0°-40°	1070.1	59.4
0°-60°	1738.2	96.4
0°-90°	1802.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1802.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	908	
5°	900	85
15°	844	238
25°	754	347
35°	640	400
45°	514	395
55°	320	273
65°	34	47
75°	12	12
85°	6	5
90°	0	

TEST NUMBER: P865610

CATALOG NUMBER: PRLX-2002-S-927-25L-L-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	907.5
2.5°	907.5
5°	899.5
7.5°	889.5
10°	877.5
12.5°	861.5
15°	843.5
17.5°	823.6
20°	801.6
22.5°	777.6
25°	753.6
27.5°	727.6
30°	699.6
32.5°	671.6
35°	639.7
37.5°	609.7
40°	577.7
42.5°	545.7
45°	513.7
47.5°	477.7
50°	441.8
52.5°	395.8
55°	319.8
57.5°	227.9
60°	131.9
62.5°	68.0
65°	34.0
67.5°	16.0
70°	14.0
72.5°	12.0
75°	12.0
77.5°	10.0
80°	8.0
82.5°	8.0
85°	6.0
87.5°	2.0
90°	0.0



TEST NUMBER: P865610
 CATALOG NUMBER: PRLX-2002-S-927-25L-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	18.55	19.97	18.92	20.28	20.60	18.55	19.97	18.92	20.28	20.60
	3H	18.46	19.71	18.84	20.04	20.40	18.46	19.71	18.84	20.04	20.40
	4H	18.42	19.58	18.82	19.93	20.31	18.42	19.58	18.82	19.93	20.31
	6H	18.37	19.44	18.78	19.80	20.20	18.37	19.44	18.78	19.80	20.20
	8H	18.35	19.36	18.78	19.75	20.15	18.35	19.36	18.78	19.75	20.15
	12H	18.33	19.29	18.76	19.68	20.11	18.33	19.29	18.76	19.68	20.11
4H	2H	18.41	19.57	18.81	19.92	20.30	18.41	19.57	18.81	19.92	20.30
	3H	18.34	19.27	18.75	19.67	20.08	18.34	19.27	18.75	19.67	20.08
	4H	18.29	19.12	18.73	19.54	19.98	18.29	19.12	18.73	19.54	19.98
	6H	18.26	18.98	18.72	19.42	19.89	18.26	18.98	18.72	19.42	19.89
	8H	18.24	18.91	18.71	19.36	19.83	18.24	18.91	18.71	19.36	19.83
	12H	18.23	18.83	18.72	19.31	19.78	18.23	18.83	18.72	19.31	19.78
8H	4H	18.18	18.85	18.65	19.30	19.77	18.18	18.85	18.65	19.30	19.77
	6H	18.14	18.70	18.64	19.19	19.67	18.14	18.70	18.64	19.19	19.67
	8H	18.13	18.64	18.65	19.15	19.64	18.13	18.64	18.65	19.15	19.64
	12H	18.15	18.60	18.66	19.09	19.66	18.15	18.60	18.66	19.09	19.66
12H	4H	18.14	18.74	18.63	19.22	19.69	18.14	18.74	18.63	19.22	19.69
	6H	18.09	18.59	18.61	19.11	19.60	18.09	18.59	18.61	19.11	19.60
	8H	18.10	18.56	18.62	19.05	19.62	18.10	18.56	18.62	19.05	19.62