

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: P865974

Luminaire Tested: PRLX-2001-M-930-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-25L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

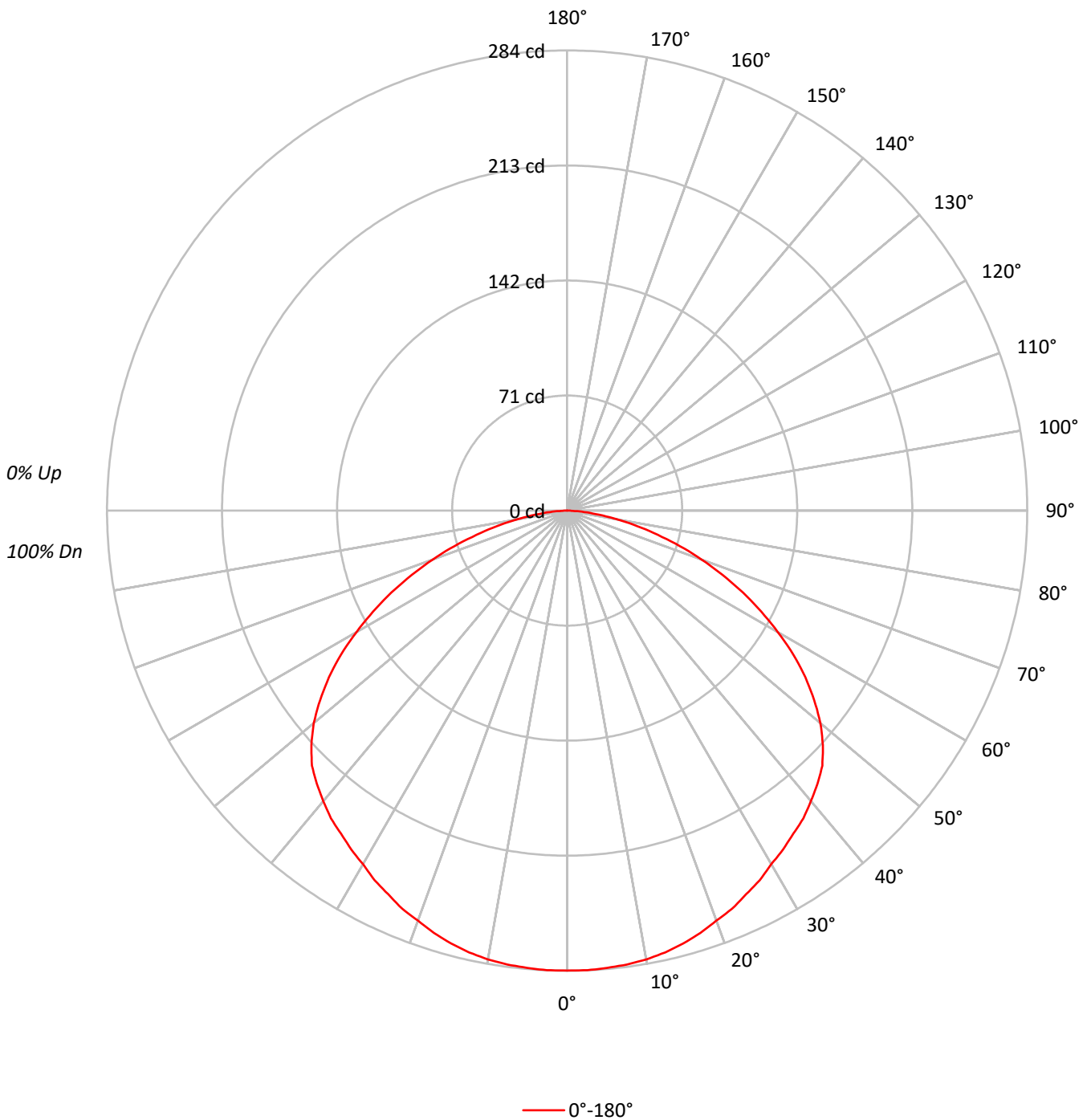
Lumens per Lamp: N/A
Luminaire Lumens: 902.9 lumens
Efficiency: N/A
Efficacy: 41.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: P865974

CATALOG NUMBER: PRLX-2001-M-930-25L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865974

CATALOG NUMBER: PRLX-2001-M-930-25L-G-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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2409
5°	2413
10°	2424
15°	2430
20°	2432
25°	2447
30°	2469
35°	2522
40°	2593
45°	2673
50°	2695
55°	2656
60°	2551
65°	2404
70°	2193
75°	1895
80°	1530
85°	1032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2695 cd/sqm

TEST NUMBER: P865974

CATALOG NUMBER: PRLX-2001-M-930-25L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	3.0
10°-20°	78.1	8.6
20°-30°	120.7	13.4
30°-40°	152.7	16.9
40°-50°	171.0	18.9
50°-60°	159.8	17.7
60°-70°	118.2	13.1
70°-80°	62.0	6.9
80°-90°	13.4	1.5
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°	225.8	25.0
0°-40°	378.5	41.9
0°-60°	709.3	78.6
0°-90°	902.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	902.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	284	
5°	283	27
15°	277	78
25°	261	121
35°	243	153
45°	223	171
55°	180	160
65°	120	118
75°	58	62
85°	11	13
90°	0	

TEST NUMBER: P865974

CATALOG NUMBER: PRLX-2001-M-930-25L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	283.9
2.5°	283.9
5°	283.3
7.5°	282.6
10°	281.3
12.5°	279.3
15°	276.6
17.5°	273.3
20°	269.3
22.5°	266.0
25°	261.3
27.5°	257.3
30°	252.0
32.5°	248.0
35°	243.4
37.5°	239.4
40°	234.1
42.5°	228.7
45°	222.7
47.5°	214.1
50°	204.1
52.5°	192.2
55°	179.5
57.5°	165.6
60°	150.3
62.5°	135.0
65°	119.7
67.5°	103.7
70°	88.4
72.5°	73.1
75°	57.8
77.5°	44.5
80°	31.3
82.5°	19.9
85°	10.6
87.5°	3.3
90°	0.0



TEST NUMBER: P865974
 CATALOG NUMBER: PRLX-2001-M-930-25L-G-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	15.82	17.50	16.19	17.81	18.12	15.82	17.50	16.19	17.81	18.12
	3H	17.48	19.00	17.86	19.32	19.68	17.48	19.00	17.86	19.32	19.68
	4H	18.04	19.47	18.44	19.82	20.19	18.04	19.47	18.44	19.82	20.19
	6H	18.41	19.73	18.82	20.09	20.48	18.41	19.73	18.82	20.09	20.48
	8H	18.50	19.76	18.92	20.15	20.54	18.50	19.76	18.92	20.15	20.54
	12H	18.54	19.75	18.97	20.13	20.56	18.54	19.75	18.97	20.13	20.56
4H	2H	16.43	17.86	16.83	18.20	18.58	16.43	17.86	16.83	18.20	18.58
	3H	18.30	19.49	18.71	19.89	20.29	18.30	19.49	18.71	19.89	20.29
	4H	18.97	20.05	19.40	20.46	20.90	18.97	20.05	19.40	20.46	20.90
	6H	19.44	20.38	19.89	20.82	21.27	19.44	20.38	19.89	20.82	21.27
	8H	19.56	20.44	20.02	20.88	21.35	19.56	20.44	20.02	20.88	21.35
	12H	19.63	20.42	20.11	20.90	21.37	19.63	20.42	20.11	20.90	21.37
8H	4H	19.23	20.11	19.69	20.55	21.02	19.23	20.11	19.69	20.55	21.02
	6H	19.79	20.52	20.28	21.01	21.48	19.79	20.52	20.28	21.01	21.48
	8H	19.96	20.61	20.46	21.12	21.60	19.96	20.61	20.46	21.12	21.60
	12H	20.07	20.65	20.58	21.14	21.70	20.07	20.65	20.58	21.14	21.70
12H	4H	19.25	20.04	19.73	20.52	20.99	19.25	20.04	19.73	20.52	20.99
	6H	19.82	20.47	20.32	20.98	21.46	19.82	20.47	20.32	20.98	21.46
	8H	20.03	20.61	20.53	21.10	21.66	20.03	20.61	20.53	21.10	21.66