

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: P865490

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-25L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

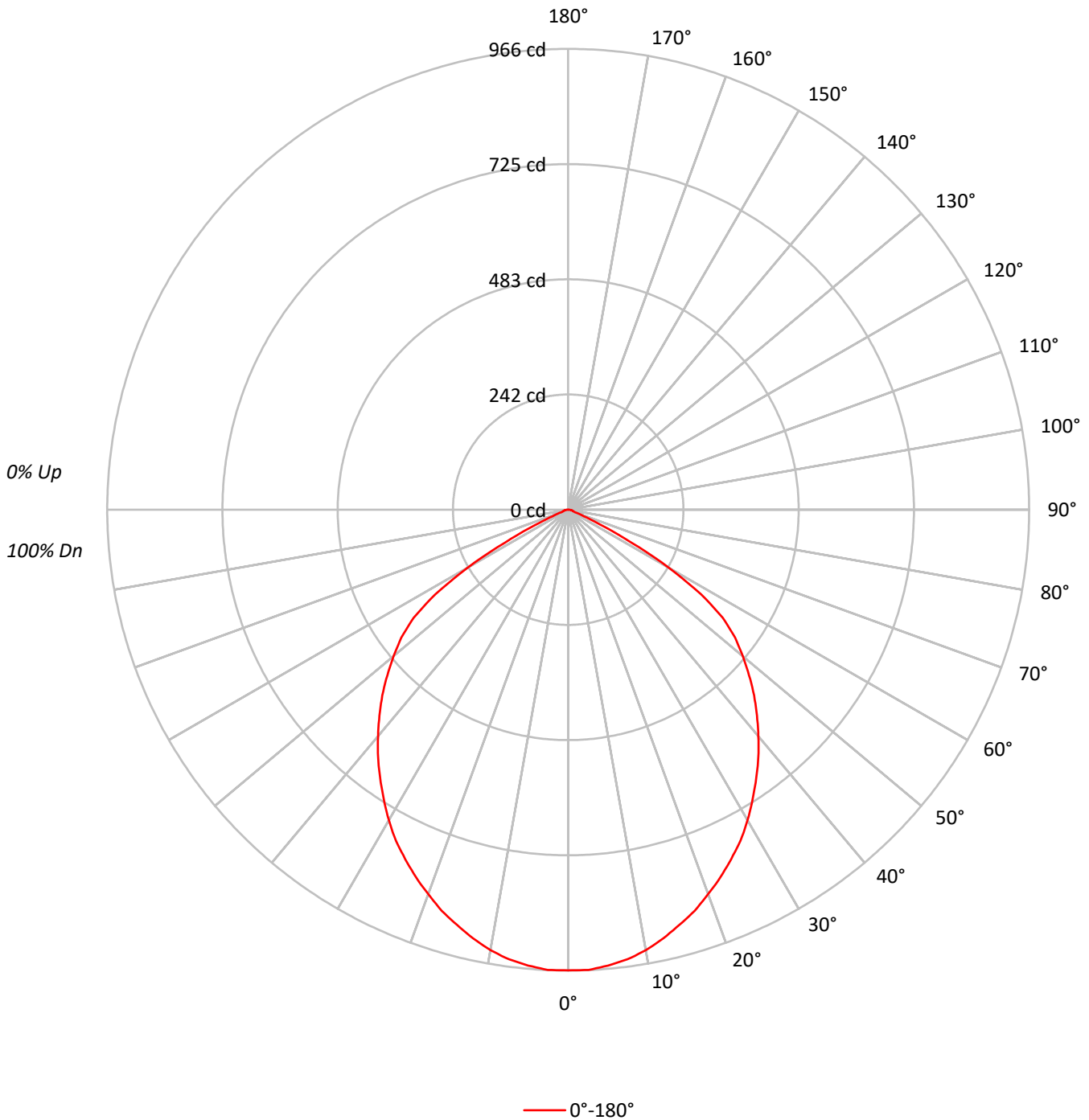
Lumens per Lamp: N/A
Luminaire Lumens: 2022.7 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865490

CATALOG NUMBER: PRLX-2001-S-930-25L-L-U-S-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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15751
5°	15704
10°	15528
15°	15212
20°	14887
25°	14541
30°	14159
35°	13679
40°	13201
45°	12707
50°	12114
55°	11244
60°	7963
65°	2918
70°	720
75°	681
80°	808
85°	805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	4.5
10°-20°	254.0	12.6
20°-30°	372.2	18.4
30°-40°	429.8	21.2
40°-50°	424.3	21.0
50°-60°	340.6	16.8
60°-70°	95.0	4.7
70°-80°	11.1	0.5
80°-90°	4.7	0.2
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°	717.1	35.5
0°-40°	1146.9	56.7
0°-60°	1911.8	94.5
0°-90°	2022.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	966	
5°	959	91
15°	901	254
25°	808	372
35°	687	430
45°	551	424
55°	395	341
65°	76	95
75°	11	11
85°	4	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	965.7
2.5°	965.7
5°	959.2
7.5°	950.6
10°	937.6
12.5°	920.3
15°	900.9
17.5°	881.4
20°	857.7
22.5°	833.9
25°	808.0
27.5°	782.1
30°	751.8
32.5°	719.4
35°	687.0
37.5°	654.6
40°	620.0
42.5°	585.5
45°	550.9
47.5°	514.2
50°	477.4
52.5°	440.7
55°	395.4
57.5°	330.5
60°	244.1
62.5°	149.1
65°	75.6
67.5°	34.6
70°	15.1
72.5°	10.8
75°	10.8
77.5°	8.6
80°	8.6
82.5°	6.5
85°	4.3
87.5°	2.2
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	20.28	21.74	20.64	22.05	22.37	20.28	21.74	20.64	22.05	22.37
	3H	20.20	21.49	20.58	21.82	22.18	20.20	21.49	20.58	21.82	22.18
	4H	20.15	21.35	20.55	21.70	22.08	20.15	21.35	20.55	21.70	22.08
	6H	20.09	21.19	20.50	21.56	21.95	20.09	21.19	20.50	21.56	21.95
	8H	20.06	21.10	20.49	21.49	21.89	20.06	21.10	20.49	21.49	21.89
	12H	20.03	21.02	20.46	21.41	21.84	20.03	21.02	20.46	21.41	21.84
4H	2H	20.20	21.40	20.60	21.75	22.13	20.20	21.40	20.60	21.75	22.13
	3H	20.14	21.10	20.55	21.51	21.91	20.14	21.10	20.55	21.51	21.91
	4H	20.07	20.93	20.51	21.35	21.79	20.07	20.93	20.51	21.35	21.79
	6H	20.02	20.76	20.48	21.21	21.67	20.02	20.76	20.48	21.21	21.67
	8H	19.98	20.67	20.45	21.12	21.59	19.98	20.67	20.45	21.12	21.59
	12H	19.95	20.57	20.43	21.05	21.52	19.95	20.57	20.43	21.05	21.52
8H	4H	19.96	20.65	20.42	21.10	21.57	19.96	20.65	20.42	21.10	21.57
	6H	19.89	20.46	20.39	20.96	21.43	19.89	20.46	20.39	20.96	21.43
	8H	19.85	20.36	20.36	20.88	21.37	19.85	20.36	20.36	20.88	21.37
	12H	19.82	20.28	20.33	20.77	21.34	19.82	20.28	20.33	20.77	21.34
12H	4H	19.92	20.53	20.40	21.02	21.49	19.92	20.53	20.40	21.02	21.49
	6H	19.83	20.35	20.35	20.86	21.35	19.83	20.35	20.35	20.86	21.35
	8H	19.81	20.27	20.32	20.76	21.33	19.81	20.27	20.32	20.76	21.33