

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: P866486

Luminaire Tested: PRLX-2004-M-930-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-930-25L-G-U-S-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

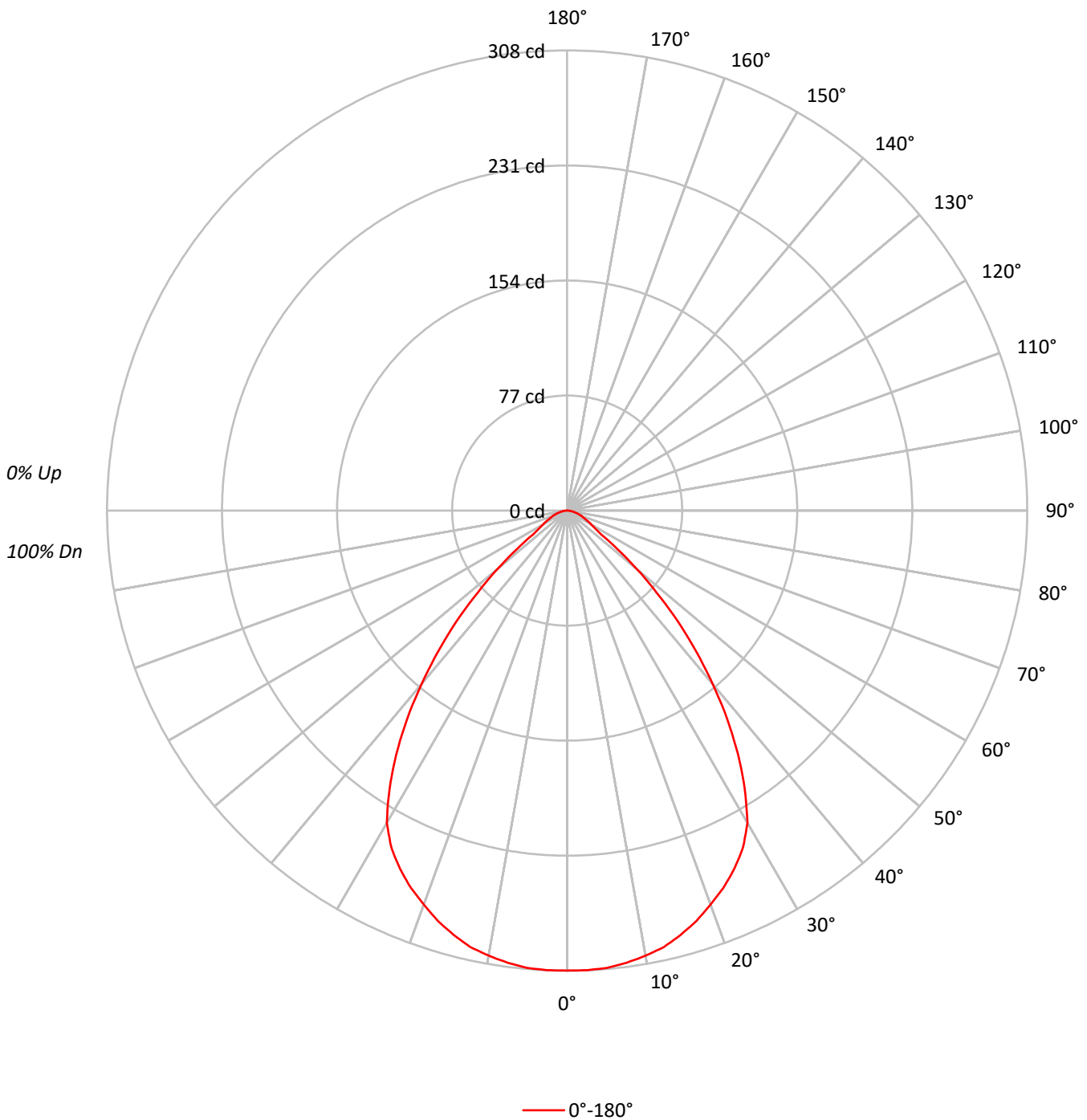
Lumens per Lamp: N/A
Luminaire Lumens: 489.1 lumens
Efficiency: N/A
Efficacy: 22.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

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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	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86		90	87	85		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81	77	74	73
4	91	82	75	70	89	81	75	70	79	73	69		77	72	68		75	71	67	65
5	86	75	68	63	84	74	68	63	72	67	62		71	65	61		69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43		53	47	43		52	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40		49	44	40		48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2450
5°	2453
10°	2444
15°	2421
20°	2376
25°	2323
30°	2218
35°	1938
40°	1574
45°	1175
50°	757
55°	387
60°	296
65°	250
70°	233
75°	203
80°	183
85°	183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1175 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	6.0
10°-20°	82.8	16.9
20°-30°	121.4	24.8
30°-40°	123.5	25.3
40°-50°	80.3	16.4
50°-60°	29.3	6.0
60°-70°	13.6	2.8
70°-80°	7.1	1.4
80°-90°	2.0	0.4
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°	233.3	47.7
0°-40°	356.9	73.0
0°-60°	466.5	95.4
0°-90°	489.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	489.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	308	
5°	307	29
15°	294	83
25°	265	121
35°	200	124
45°	104	80
55°	28	29
65°	13	14
75°	7	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	307.9
2.5°	307.9
5°	307.2
7.5°	305.2
10°	302.5
12.5°	299.2
15°	293.9
17.5°	287.9
20°	280.6
22.5°	273.3
25°	264.6
27.5°	254.7
30°	241.4
32.5°	221.4
35°	199.5
37.5°	176.2
40°	151.6
42.5°	127.7
45°	104.4
47.5°	81.1
50°	61.2
52.5°	42.6
55°	27.9
57.5°	21.9
60°	18.6
62.5°	16.0
65°	13.3
67.5°	11.3
70°	10.0
72.5°	8.0
75°	6.6
77.5°	5.3
80°	4.0
82.5°	2.7
85°	2.0
87.5°	0.7
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	4.18	5.43	4.54	5.74	6.06	4.18	5.43	4.54	5.74	6.06
	3H	5.37	6.47	5.75	6.80	7.17	5.37	6.47	5.75	6.80	7.17
	4H	5.80	6.83	6.21	7.18	7.57	5.80	6.83	6.21	7.18	7.57
	6H	6.14	7.08	6.55	7.45	7.84	6.14	7.08	6.55	7.45	7.84
	8H	6.23	7.12	6.66	7.51	7.92	6.23	7.12	6.66	7.51	7.92
	12H	6.30	7.16	6.74	7.54	7.97	6.30	7.16	6.74	7.54	7.97
4H	2H	4.53	5.56	4.93	5.91	6.29	4.53	5.56	4.93	5.91	6.29
	3H	5.95	6.78	6.36	7.19	7.59	5.95	6.78	6.36	7.19	7.59
	4H	6.50	7.25	6.94	7.67	8.11	6.50	7.25	6.94	7.67	8.11
	6H	6.96	7.60	7.42	8.05	8.51	6.96	7.60	7.42	8.05	8.51
	8H	7.08	7.69	7.56	8.13	8.61	7.08	7.69	7.56	8.13	8.61
	12H	7.20	7.73	7.69	8.21	8.69	7.20	7.73	7.69	8.21	8.69
8H	4H	6.67	7.28	7.15	7.72	8.20	6.67	7.28	7.15	7.72	8.20
	6H	7.23	7.72	7.74	8.22	8.70	7.23	7.72	7.74	8.22	8.70
	8H	7.43	7.87	7.95	8.38	8.88	7.43	7.87	7.95	8.38	8.88
	12H	7.62	8.01	8.14	8.51	9.08	7.62	8.01	8.14	8.51	9.08
12H	4H	6.67	7.20	7.16	7.68	8.16	6.67	7.20	7.16	7.68	8.16
	6H	7.25	7.69	7.77	8.21	8.70	7.25	7.69	7.77	8.21	8.70
	8H	7.49	7.88	8.01	8.38	8.95	7.49	7.88	8.01	8.38	8.95