

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: P866423

Luminaire Tested: PRLX-2004-M-927-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-25L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

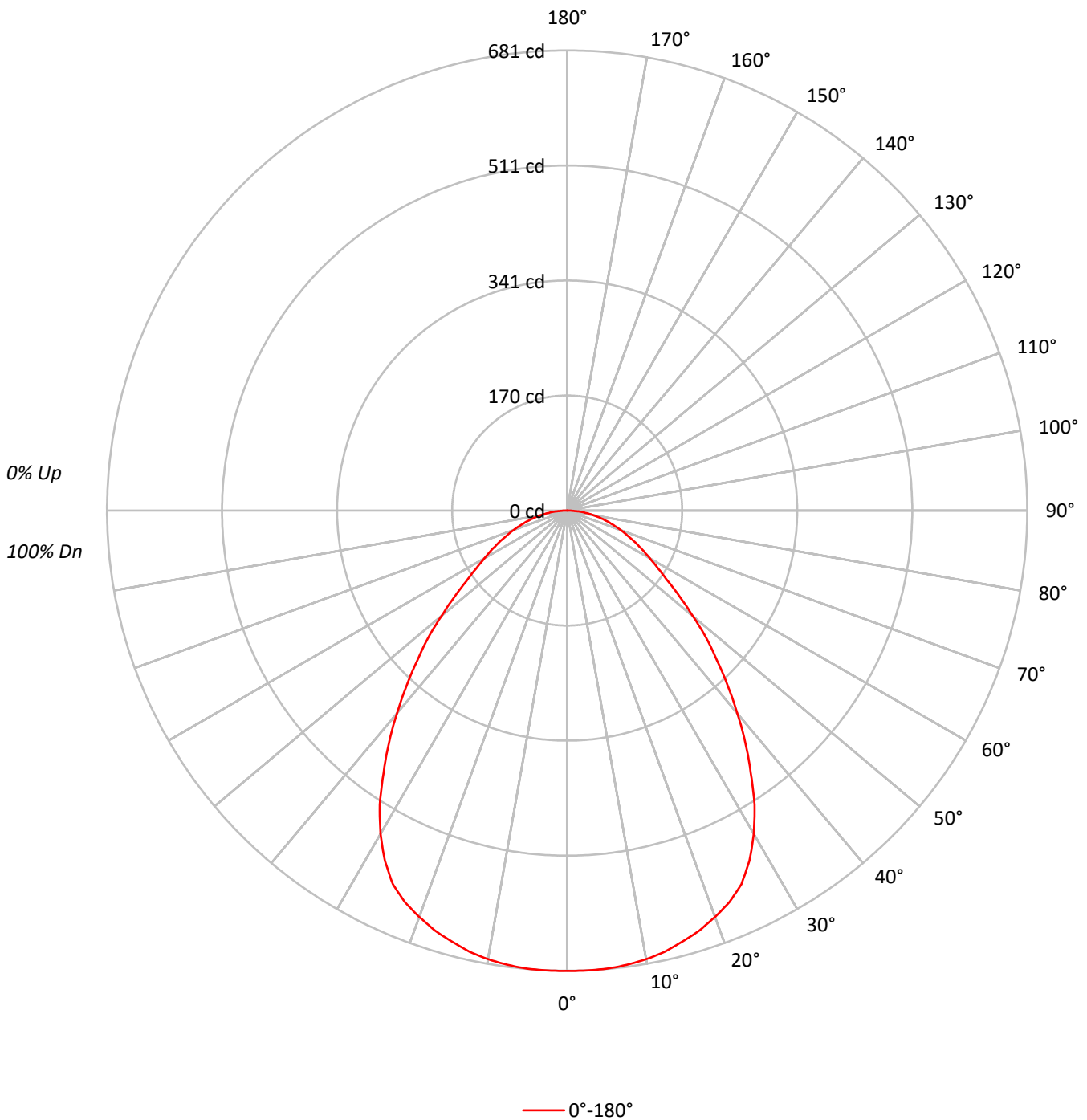
Lumens per Lamp: N/A
Luminaire Lumens: 1430.7 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): 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

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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
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°	5420
5°	5435
10°	5447
15°	5439
20°	5418
25°	5356
30°	5076
35°	4602
40°	4071
45°	3533
50°	3006
55°	2526
60°	2251
65°	2090
70°	1963
75°	1872
80°	1801
85°	1734

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3533 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	4.5
10°-20°	186.4	13.0
20°-30°	278.6	19.5
30°-40°	295.7	20.7
40°-50°	242.9	17.0
50°-60°	166.2	11.6
60°-70°	110.5	7.7
70°-80°	64.7	4.5
80°-90°	21.0	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°	529.8	37.0
0°-40°	825.5	57.7
0°-60°	1234.5	86.3
0°-90°	1430.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1430.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	681	65
15°	660	186
25°	610	279
35°	474	296
45°	314	243
55°	182	166
65°	111	110
75°	61	65
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	681.3
2.5°	681.3
5°	680.6
7.5°	678.1
10°	674.3
12.5°	668.6
15°	660.3
17.5°	651.4
20°	640.0
22.5°	627.3
25°	610.2
27.5°	584.2
30°	552.5
32.5°	516.3
35°	473.8
37.5°	433.2
40°	392.0
42.5°	352.0
45°	314.0
47.5°	279.1
50°	242.9
52.5°	210.6
55°	182.1
57.5°	159.8
60°	141.5
62.5°	125.6
65°	111.0
67.5°	97.1
70°	84.4
72.5°	72.3
75°	60.9
77.5°	50.1
80°	39.3
82.5°	29.2
85°	19.0
87.5°	9.5
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	14.00	15.47	14.36	15.78	16.10	14.00	15.47	14.36	15.78	16.10
	3H	15.58	16.90	15.96	17.23	17.59	15.58	16.90	15.96	17.23	17.59
	4H	16.22	17.46	16.62	17.81	18.19	16.22	17.46	16.62	17.81	18.19
	6H	16.74	17.89	17.16	18.25	18.65	16.74	17.89	17.16	18.25	18.65
	8H	16.93	18.02	17.36	18.41	18.81	16.93	18.02	17.36	18.41	18.81
	12H	17.08	18.12	17.51	18.50	18.93	17.08	18.12	17.51	18.50	18.93
4H	2H	14.53	15.76	14.93	16.11	16.49	14.53	15.76	14.93	16.11	16.49
	3H	16.35	17.38	16.76	17.78	18.18	16.35	17.38	16.76	17.78	18.18
	4H	17.13	18.05	17.56	18.47	18.91	17.13	18.05	17.56	18.47	18.91
	6H	17.79	18.60	18.25	19.04	19.50	17.79	18.60	18.25	19.04	19.50
	8H	18.04	18.79	18.50	19.24	19.70	18.04	18.79	18.50	19.24	19.70
	12H	18.23	18.91	18.72	19.39	19.86	18.23	18.91	18.72	19.39	19.86
8H	4H	17.42	18.17	17.88	18.62	19.09	17.42	18.17	17.88	18.62	19.09
	6H	18.22	18.85	18.72	19.34	19.82	18.22	18.85	18.72	19.34	19.82
	8H	18.56	19.12	19.08	19.63	20.12	18.56	19.12	19.08	19.63	20.12
	12H	18.85	19.35	19.36	19.84	20.40	18.85	19.35	19.36	19.84	20.40
12H	4H	17.45	18.12	17.93	18.60	19.07	17.45	18.12	17.93	18.60	19.07
	6H	18.29	18.85	18.80	19.36	19.85	18.29	18.85	18.80	19.36	19.85
	8H	18.69	19.18	19.20	19.68	20.24	18.69	19.18	19.20	19.68	20.24