

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: P865967

Luminaire Tested: PRLX-2001-M-930-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-15L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

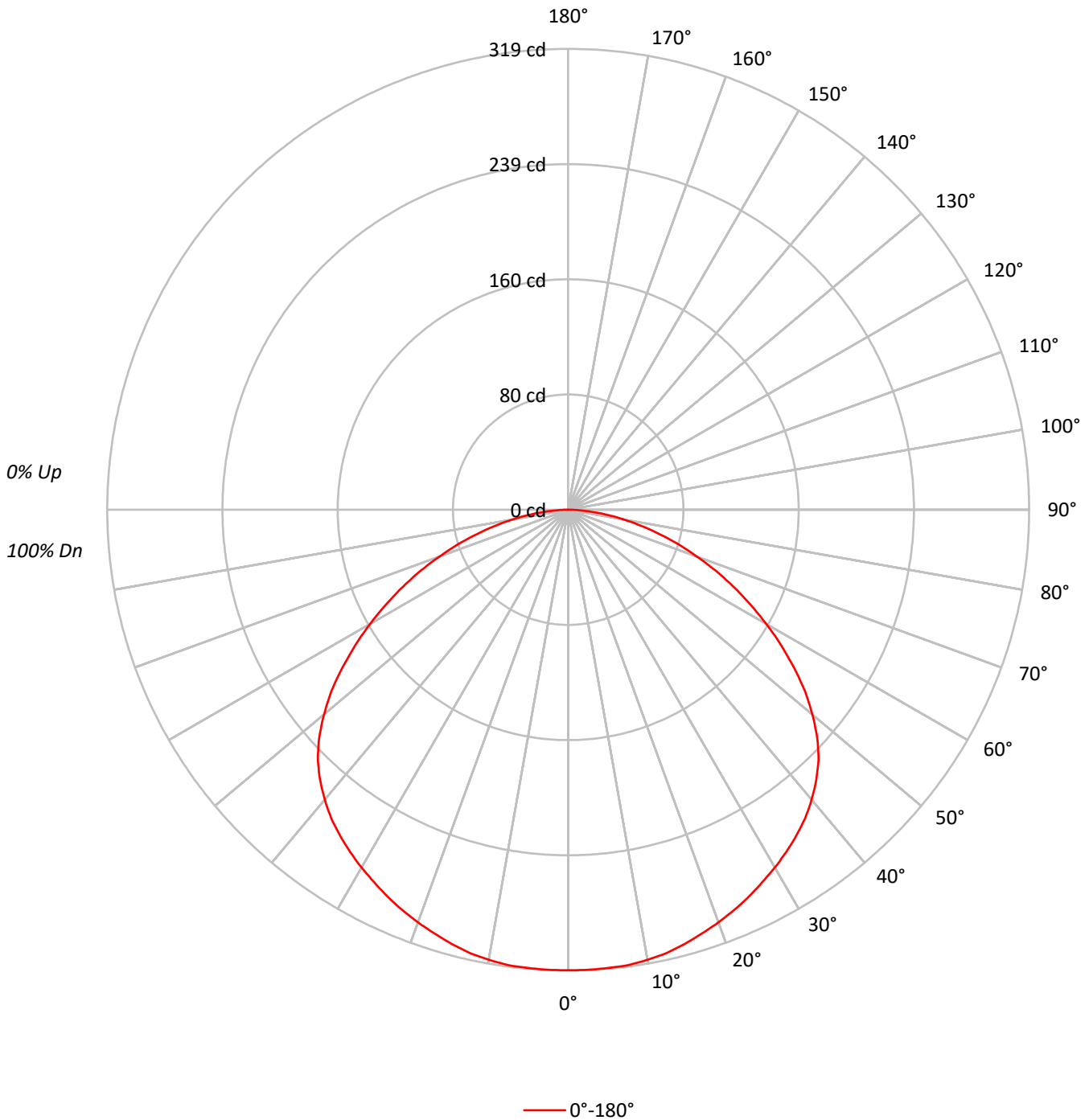
Lumens per Lamp: N/A
Luminaire Lumens: 999.3 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2705
5°	2712
10°	2726
15°	2734
20°	2745
25°	2768
30°	2802
35°	2852
40°	2903
45°	2940
50°	2912
55°	2821
60°	2688
65°	2532
70°	2347
75°	2157
80°	1911
85°	1558

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.3	3.0
10°-20°	87.9	8.8
20°-30°	136.5	13.7
30°-40°	172.4	17.3
40°-50°	188.2	18.8
50°-60°	170.3	17.0
60°-70°	124.9	12.5
70°-80°	69.8	7.0
80°-90°	19.0	1.9
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°	254.7	25.5
0°-40°	427.1	42.7
0°-60°	785.6	78.6
0°-90°	999.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	999.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	319	
5°	318	30
15°	311	88
25°	296	136
35°	275	172
45°	245	188
55°	191	170
65°	126	125
75°	66	70
85°	16	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	318.8
2.5°	318.8
5°	318.4
7.5°	318.0
10°	316.4
12.5°	314.4
15°	311.2
17.5°	307.6
20°	304.0
22.5°	300.0
25°	295.6
27.5°	290.8
30°	286.0
32.5°	280.9
35°	275.3
37.5°	269.3
40°	262.1
42.5°	254.1
45°	245.0
47.5°	233.8
50°	220.6
52.5°	206.7
55°	190.7
57.5°	174.7
60°	158.4
62.5°	142.0
65°	126.1
67.5°	110.5
70°	94.6
72.5°	80.2
75°	65.8
77.5°	51.9
80°	39.1
82.5°	27.1
85°	16.0
87.5°	7.2
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	15.85	17.52	16.22	17.83	18.15	15.85	17.52	16.22	17.83	18.15
	3H	17.55	19.05	17.92	19.38	19.74	17.55	19.05	17.92	19.38	19.74
	4H	18.17	19.59	18.57	19.94	20.31	18.17	19.59	18.57	19.94	20.31
	6H	18.63	19.94	19.04	20.31	20.70	18.63	19.94	19.04	20.31	20.70
	8H	18.77	20.03	19.20	20.42	20.82	18.77	20.03	19.20	20.42	20.82
	12H	18.86	20.07	19.29	20.45	20.88	18.86	20.07	19.29	20.45	20.88
4H	2H	16.46	17.88	16.85	18.22	18.60	16.46	17.88	16.85	18.22	18.60
	3H	18.37	19.56	18.78	19.96	20.35	18.37	19.56	18.78	19.96	20.35
	4H	19.12	20.20	19.55	20.61	21.05	19.12	20.20	19.55	20.61	21.05
	6H	19.70	20.65	20.16	21.09	21.54	19.70	20.65	20.16	21.09	21.54
	8H	19.89	20.78	20.35	21.22	21.68	19.89	20.78	20.35	21.22	21.68
	12H	20.03	20.82	20.51	21.30	21.76	20.03	20.82	20.51	21.30	21.76
8H	4H	19.42	20.30	19.88	20.74	21.21	19.42	20.30	19.88	20.74	21.21
	6H	20.12	20.85	20.61	21.34	21.81	20.12	20.85	20.61	21.34	21.81
	8H	20.38	21.03	20.88	21.54	22.02	20.38	21.03	20.88	21.54	22.02
	12H	20.58	21.16	21.08	21.65	22.21	20.58	21.16	21.08	21.65	22.21
12H	4H	19.45	20.25	19.93	20.72	21.19	19.45	20.25	19.93	20.72	21.19
	6H	20.17	20.83	20.68	21.33	21.82	20.17	20.83	20.68	21.33	21.82
	8H	20.48	21.07	20.99	21.56	22.12	20.48	21.07	20.99	21.56	22.12