

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: P866031

Luminaire Tested: PRLX-2001-M-935-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866031
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-935-15L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

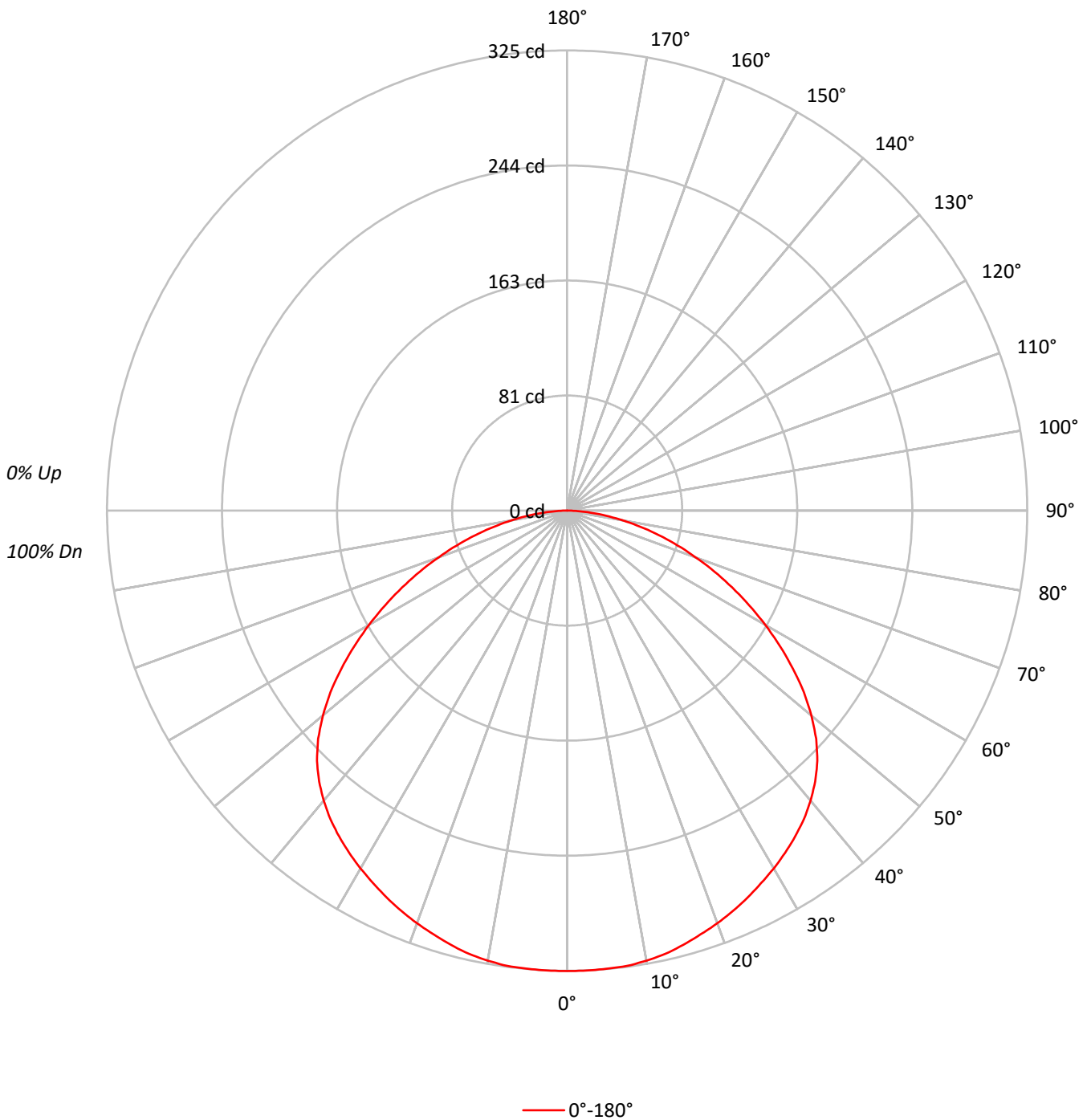
Lumens per Lamp: N/A
Luminaire Lumens: 1019.6 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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°	2760
5°	2767
10°	2782
15°	2789
20°	2801
25°	2824
30°	2859
35°	2910
40°	2962
45°	2999
50°	2972
55°	2879
60°	2743
65°	2582
70°	2394
75°	2203
80°	1950
85°	1587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2999 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	3.0
10°-20°	89.7	8.8
20°-30°	139.2	13.7
30°-40°	175.9	17.3
40°-50°	192.0	18.8
50°-60°	173.7	17.0
60°-70°	127.5	12.5
70°-80°	71.2	7.0
80°-90°	19.4	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°	259.9	25.5
0°-40°	435.8	42.7
0°-60°	801.5	78.6
0°-90°	1019.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1019.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	325	
5°	325	31
15°	318	90
25°	302	139
35°	281	176
45°	250	192
55°	195	174
65°	129	127
75°	67	71
85°	16	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	325.2
2.5°	325.2
5°	324.8
7.5°	324.4
10°	322.8
12.5°	320.7
15°	317.5
17.5°	313.8
20°	310.2
22.5°	306.1
25°	301.6
27.5°	296.7
30°	291.8
32.5°	286.6
35°	280.9
37.5°	274.7
40°	267.4
42.5°	259.3
45°	249.9
47.5°	238.5
50°	225.1
52.5°	210.8
55°	194.6
57.5°	178.3
60°	161.6
62.5°	144.9
65°	128.6
67.5°	112.7
70°	96.5
72.5°	81.8
75°	67.2
77.5°	52.9
80°	39.9
82.5°	27.7
85°	16.3
87.5°	7.3
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	15.93	17.59	16.29	17.90	18.22	15.93	17.59	16.29	17.90	18.22
	3H	17.62	19.12	17.99	19.45	19.81	17.62	19.12	17.99	19.45	19.81
	4H	18.24	19.66	18.64	20.01	20.38	18.24	19.66	18.64	20.01	20.38
	6H	18.70	20.01	19.11	20.38	20.77	18.70	20.01	19.11	20.38	20.77
	8H	18.84	20.10	19.27	20.49	20.89	18.84	20.10	19.27	20.49	20.89
	12H	18.93	20.14	19.36	20.52	20.95	18.93	20.14	19.36	20.52	20.95
4H	2H	16.53	17.95	16.93	18.29	18.67	16.53	17.95	16.93	18.29	18.67
	3H	18.44	19.63	18.85	20.02	20.42	18.44	19.63	18.85	20.02	20.42
	4H	19.19	20.27	19.63	20.68	21.12	19.19	20.27	19.63	20.68	21.12
	6H	19.77	20.72	20.23	21.16	21.61	19.77	20.72	20.23	21.16	21.61
	8H	19.97	20.85	20.42	21.29	21.75	19.97	20.85	20.42	21.29	21.75
	12H	20.10	20.89	20.58	21.37	21.83	20.10	20.89	20.58	21.37	21.83
8H	4H	19.49	20.37	19.95	20.81	21.28	19.49	20.37	19.95	20.81	21.28
	6H	20.19	20.92	20.68	21.41	21.88	20.19	20.92	20.68	21.41	21.88
	8H	20.45	21.11	20.95	21.61	22.10	20.45	21.11	20.95	21.61	22.10
	12H	20.65	21.23	21.15	21.72	22.28	20.65	21.23	21.15	21.72	22.28
12H	4H	19.52	20.32	20.00	20.79	21.26	19.52	20.32	20.00	20.79	21.26
	6H	20.24	20.90	20.75	21.40	21.89	20.24	20.90	20.75	21.40	21.89
	8H	20.55	21.14	21.06	21.63	22.19	20.55	21.14	21.06	21.63	22.19