

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: P866101

Luminaire Tested: PRLX-2001-M-940-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-25L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

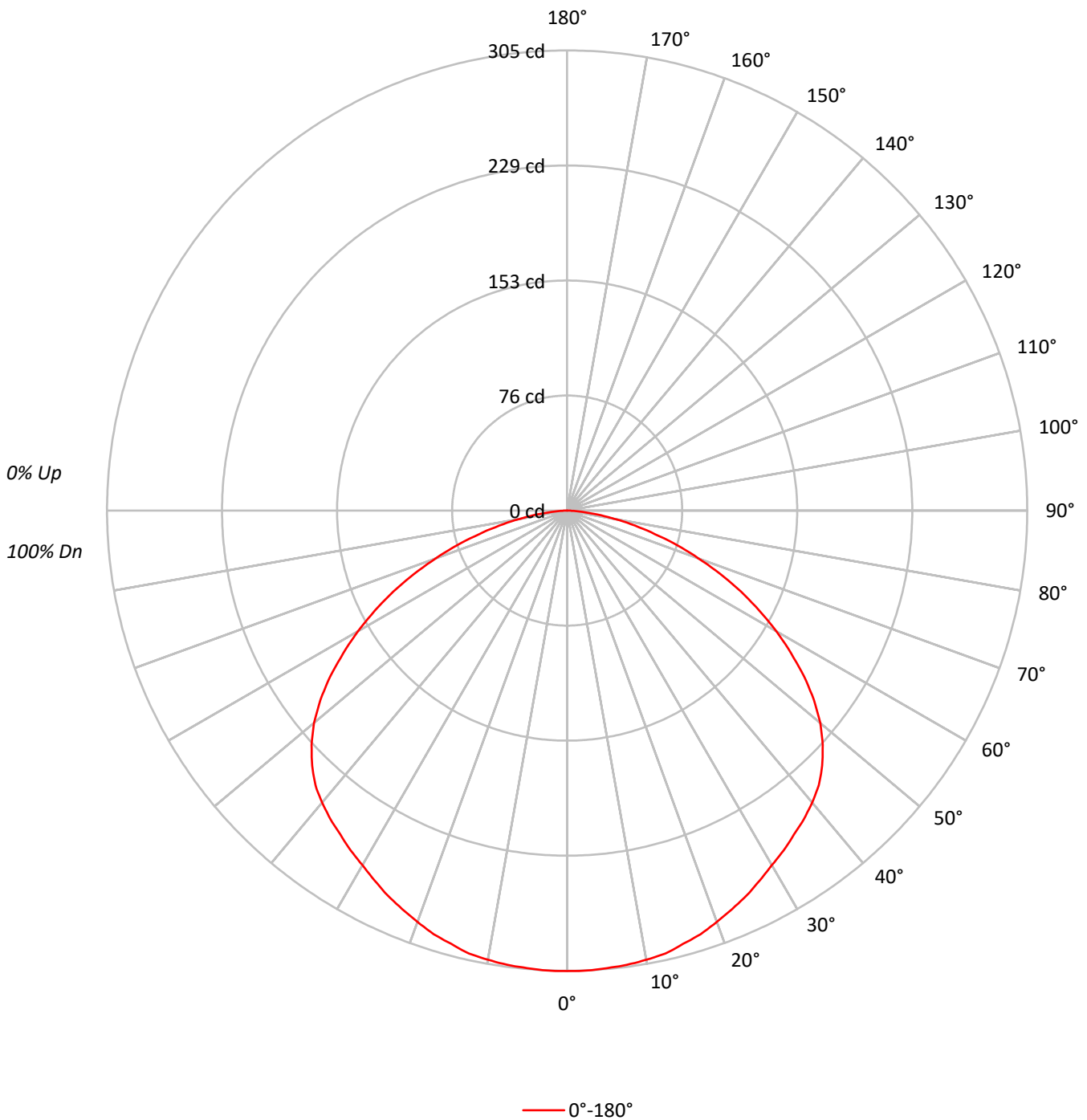
Lumens per Lamp: N/A
Luminaire Lumens: 965.5 lumens
Efficiency: N/A
Efficacy: 44.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62		72	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	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2590
5°	2593
10°	2605
15°	2612
20°	2620
25°	2636
30°	2659
35°	2715
40°	2799
45°	2869
50°	2891
55°	2836
60°	2717
65°	2552
70°	2298
75°	1977
80°	1578
85°	983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2891 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	3.0
10°-20°	84.1	8.7
20°-30°	129.9	13.5
30°-40°	164.5	17.0
40°-50°	183.9	19.0
50°-60°	170.7	17.7
60°-70°	125.4	13.0
70°-80°	64.7	6.7
80°-90°	13.4	1.4
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°	242.9	25.2
0°-40°	407.4	42.2
0°-60°	762.0	78.9
0°-90°	965.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	305	
5°	304	29
15°	297	84
25°	282	130
35°	262	165
45°	239	184
55°	192	171
65°	127	125
75°	60	65
85°	10	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	305.2
2.5°	305.2
5°	304.4
7.5°	303.7
10°	302.3
12.5°	300.8
15°	297.3
17.5°	294.4
20°	290.1
22.5°	285.8
25°	281.5
27.5°	276.4
30°	271.4
32.5°	267.1
35°	262.1
37.5°	257.8
40°	252.7
42.5°	247.0
45°	239.1
47.5°	229.8
50°	219.0
52.5°	206.1
55°	191.7
57.5°	175.9
60°	160.1
62.5°	143.6
65°	127.1
67.5°	109.9
70°	92.6
72.5°	76.8
75°	60.3
77.5°	46.0
80°	32.3
82.5°	20.1
85°	10.1
87.5°	2.9
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	16.02	17.69	16.38	18.00	18.31	16.02	17.69	16.38	18.00	18.31
	3H	17.66	19.17	18.04	19.49	19.85	17.66	19.17	18.04	19.49	19.85
	4H	18.20	19.62	18.60	19.97	20.35	18.20	19.62	18.60	19.97	20.35
	6H	18.55	19.86	18.96	20.23	20.62	18.55	19.86	18.96	20.23	20.62
	8H	18.63	19.89	19.05	20.27	20.67	18.63	19.89	19.05	20.27	20.67
	12H	18.66	19.87	19.09	20.25	20.68	18.66	19.87	19.09	20.25	20.68
4H	2H	16.63	18.05	17.02	18.39	18.77	16.63	18.05	17.02	18.39	18.77
	3H	18.47	19.66	18.88	20.05	20.45	18.47	19.66	18.88	20.05	20.45
	4H	19.12	20.19	19.55	20.61	21.04	19.12	20.19	19.55	20.61	21.04
	6H	19.57	20.50	20.02	20.94	21.40	19.57	20.50	20.02	20.94	21.40
	8H	19.68	20.55	20.14	21.00	21.46	19.68	20.55	20.14	21.00	21.46
	12H	19.74	20.53	20.22	21.00	21.47	19.74	20.53	20.22	21.00	21.47
8H	4H	19.37	20.25	19.83	20.69	21.15	19.37	20.25	19.83	20.69	21.15
	6H	19.90	20.63	20.40	21.12	21.59	19.90	20.63	20.40	21.12	21.59
	8H	20.06	20.71	20.57	21.22	21.70	20.06	20.71	20.57	21.22	21.70
	12H	20.16	20.73	20.66	21.22	21.78	20.16	20.73	20.66	21.22	21.78
12H	4H	19.39	20.18	19.87	20.65	21.12	19.39	20.18	19.87	20.65	21.12
	6H	19.93	20.58	20.44	21.09	21.57	19.93	20.58	20.44	21.09	21.57
	8H	20.13	20.70	20.63	21.19	21.75	20.13	20.70	20.63	21.19	21.75