

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: P866089

Luminaire Tested: PRLX-2001-M-940-07L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-07L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

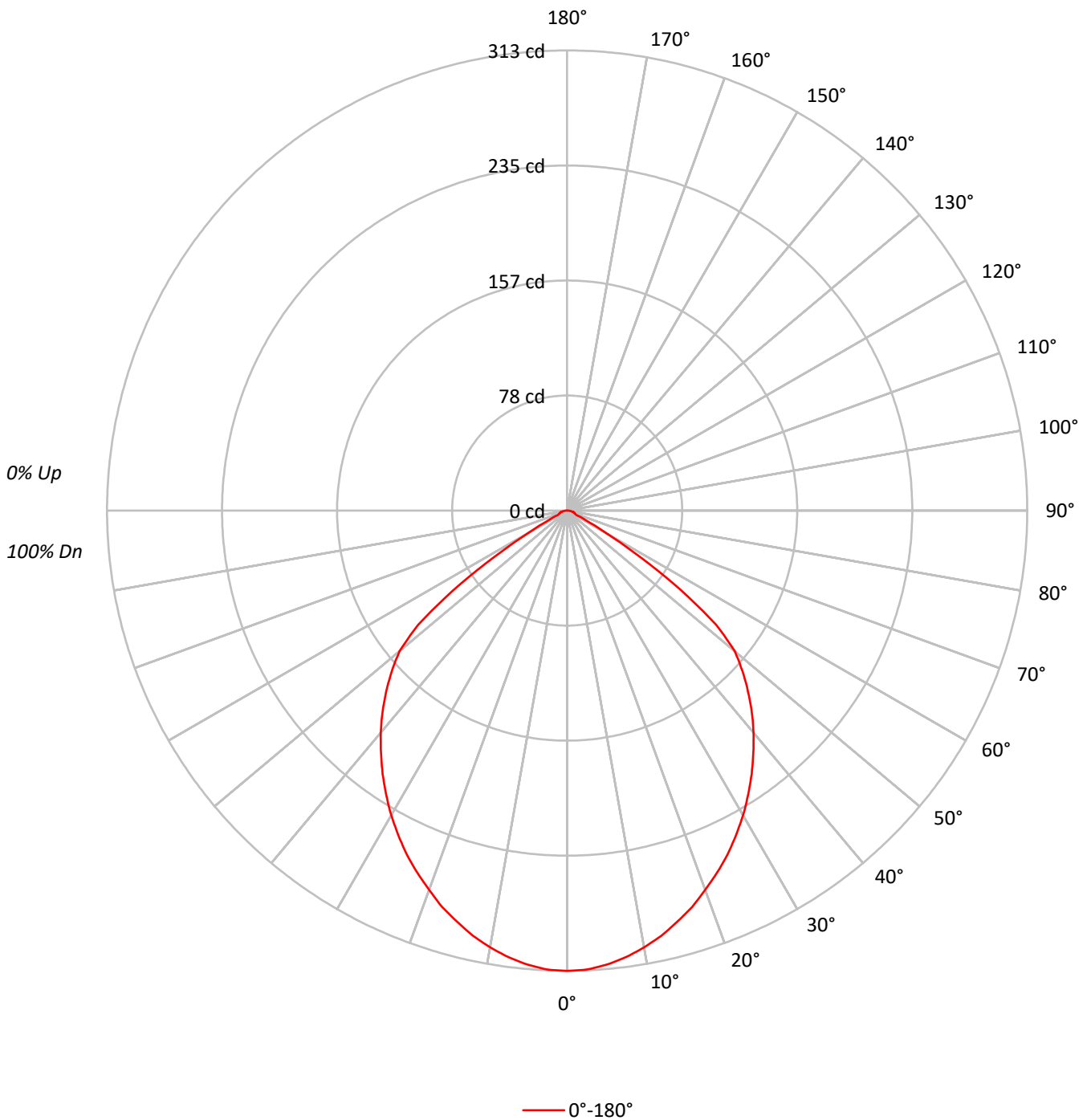
Lumens per Lamp: N/A
Luminaire Lumens: 600.4 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.26
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2657
5°	2641
10°	2600
15°	2543
20°	2479
25°	2417
30°	2345
35°	2267
40°	2186
45°	2088
50°	1964
55°	1404
60°	523
65°	139
70°	136
75°	148
80°	156
85°	156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2088 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	4.9
10°-20°	81.6	13.6
20°-30°	118.8	19.8
30°-40°	136.8	22.8
40°-50°	134.0	22.3
50°-60°	82.3	13.7
60°-70°	11.2	1.9
70°-80°	4.7	0.8
80°-90°	1.7	0.3
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°	229.6	38.3
0°-40°	366.4	61.0
0°-60°	582.7	97.1
0°-90°	600.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	313	
5°	310	29
15°	290	82
25°	258	119
35°	219	137
45°	174	134
55°	95	82
65°	7	11
75°	4	5
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	313.1
2.5°	312.5
5°	310.0
7.5°	306.4
10°	301.7
12.5°	296.2
15°	289.5
17.5°	282.7
20°	274.5
22.5°	266.6
25°	258.1
27.5°	248.8
30°	239.3
32.5°	229.1
35°	218.8
37.5°	208.0
40°	197.3
42.5°	185.9
45°	174.0
47.5°	161.8
50°	148.8
52.5°	127.9
55°	94.9
57.5°	59.0
60°	30.8
62.5°	15.0
65°	6.9
67.5°	5.7
70°	5.5
72.5°	5.1
75°	4.5
77.5°	3.9
80°	3.2
82.5°	2.4
85°	1.6
87.5°	0.8
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	10.22	11.61	10.58	11.93	12.24	10.22	11.61	10.58	11.93	12.24
	3H	10.16	11.39	10.54	11.72	12.08	10.16	11.39	10.54	11.72	12.08
	4H	10.14	11.28	10.54	11.63	12.01	10.14	11.28	10.54	11.63	12.01
	6H	10.13	11.17	10.54	11.54	11.94	10.13	11.17	10.54	11.54	11.94
	8H	10.11	11.10	10.54	11.50	11.90	10.11	11.10	10.54	11.50	11.90
	12H	10.10	11.04	10.53	11.43	11.86	10.10	11.04	10.53	11.43	11.86
4H	2H	10.05	11.19	10.46	11.54	11.93	10.05	11.19	10.46	11.54	11.93
	3H	10.03	10.95	10.44	11.35	11.75	10.03	10.95	10.44	11.35	11.75
	4H	10.03	10.85	10.46	11.26	11.71	10.03	10.85	10.46	11.26	11.71
	6H	10.05	10.76	10.52	11.20	11.67	10.05	10.76	10.52	11.20	11.67
	8H	10.05	10.71	10.52	11.15	11.62	10.05	10.71	10.52	11.15	11.62
	12H	10.04	10.63	10.53	11.11	11.58	10.04	10.63	10.53	11.11	11.58
8H	4H	9.94	10.60	10.41	11.05	11.52	9.94	10.60	10.41	11.05	11.52
	6H	9.98	10.53	10.48	11.02	11.50	9.98	10.53	10.48	11.02	11.50
	8H	9.99	10.48	10.51	11.00	11.49	9.99	10.48	10.51	11.00	11.49
	12H	10.01	10.46	10.52	10.95	11.52	10.01	10.46	10.52	10.95	11.52
12H	4H	9.91	10.49	10.39	10.97	11.45	9.91	10.49	10.39	10.97	11.45
	6H	9.93	10.43	10.45	10.94	11.44	9.93	10.43	10.45	10.94	11.44
	8H	9.97	10.42	10.49	10.91	11.48	9.97	10.42	10.49	10.91	11.48