

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: P866661

Luminaire Tested: PRLX-2001-L-927-100L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-100L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

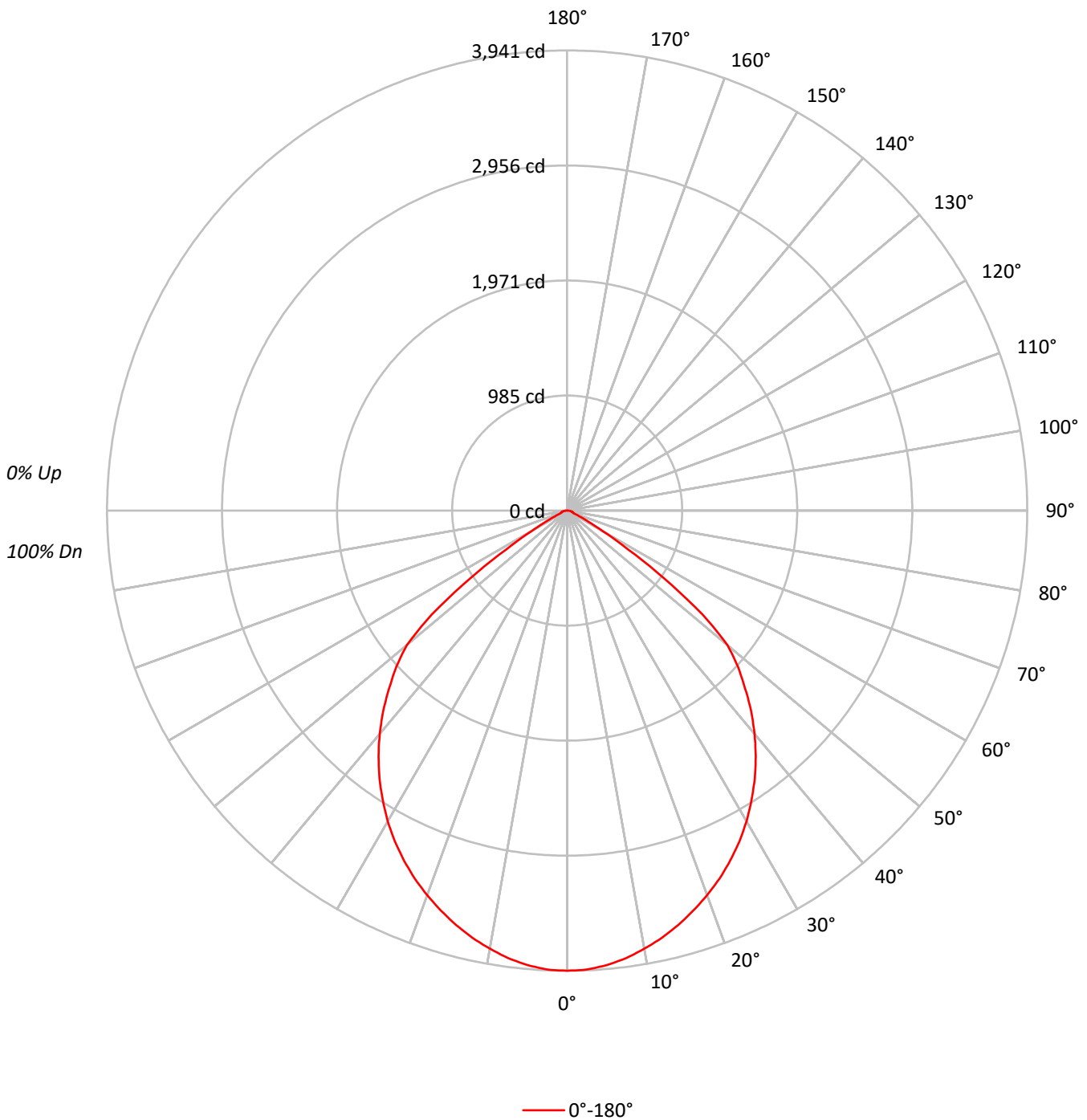
Lumens per Lamp: N/A
Luminaire Lumens: 7470.6 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21546
5°	21443
10°	21150
15°	20794
20°	20396
25°	19944
30°	19394
35°	18693
40°	17818
45°	16673
50°	15241
55°	9671
60°	3836
65°	1468
70°	887
75°	970
80°	1089
85°	1211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.9	5.0
10°-20°	1035.4	13.9
20°-30°	1521.9	20.4
30°-40°	1748.7	23.4
40°-50°	1661.4	22.2
50°-60°	921.2	12.3
60°-70°	143.8	1.9
70°-80°	48.2	0.6
80°-90°	20.1	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°	2927.2	39.2
0°-40°	4675.9	62.6
0°-60°	7258.5	97.2
0°-90°	7470.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7470.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3941	
5°	3907	370
15°	3674	1035
25°	3306	1522
35°	2801	1749
45°	2156	1661
55°	1015	921
65°	114	144
75°	46	48
85°	19	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3941.2
2.5°	3934.8
5°	3907.4
7.5°	3866.4
10°	3810.0
12.5°	3748.1
15°	3674.1
17.5°	3592.8
20°	3505.9
22.5°	3411.7
25°	3306.3
27.5°	3195.3
30°	3072.2
32.5°	2940.2
35°	2801.0
37.5°	2653.8
40°	2496.8
42.5°	2333.5
45°	2156.5
47.5°	1985.1
50°	1792.0
52.5°	1462.9
55°	1014.7
57.5°	617.2
60°	350.8
62.5°	208.4
65°	113.5
67.5°	62.0
70°	55.5
72.5°	50.7
75°	45.9
77.5°	41.0
80°	34.6
82.5°	27.4
85°	19.3
87.5°	9.7
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	16.29	17.67	16.66	17.98	18.30	16.29	17.67	16.66	17.98	18.30
	3H	16.23	17.44	16.61	17.77	18.14	16.23	17.44	16.61	17.77	18.14
	4H	16.21	17.33	16.61	17.68	18.07	16.21	17.33	16.61	17.68	18.07
	6H	16.20	17.23	16.61	17.59	17.99	16.20	17.23	16.61	17.59	17.99
	8H	16.19	17.16	16.61	17.55	17.96	16.19	17.16	16.61	17.55	17.96
	12H	16.17	17.11	16.61	17.49	17.92	16.17	17.11	16.61	17.49	17.92
4H	2H	16.16	17.29	16.57	17.64	18.02	16.16	17.29	16.57	17.64	18.02
	3H	16.13	17.04	16.55	17.44	17.84	16.13	17.04	16.55	17.44	17.84
	4H	16.12	16.93	16.56	17.35	17.79	16.12	16.93	16.56	17.35	17.79
	6H	16.15	16.84	16.61	17.29	17.76	16.15	16.84	16.61	17.29	17.76
	8H	16.15	16.80	16.62	17.24	17.71	16.15	16.80	16.62	17.24	17.71
	12H	16.15	16.73	16.64	17.21	17.69	16.15	16.73	16.64	17.21	17.69
8H	4H	16.03	16.68	16.50	17.13	17.60	16.03	16.68	16.50	17.13	17.60
	6H	16.07	16.61	16.58	17.11	17.59	16.07	16.61	16.58	17.11	17.59
	8H	16.09	16.58	16.62	17.10	17.59	16.09	16.58	16.62	17.10	17.59
	12H	16.13	16.57	16.65	17.06	17.63	16.13	16.57	16.65	17.06	17.63
12H	4H	16.00	16.57	16.48	17.05	17.53	16.00	16.57	16.48	17.05	17.53
	6H	16.03	16.52	16.55	17.03	17.52	16.03	16.52	16.55	17.03	17.52
	8H	16.08	16.52	16.60	17.01	17.58	16.08	16.52	16.60	17.01	17.58