

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: P866685

Luminaire Tested: PRLX-2001-L-927-15L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866685
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-927-15L-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 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

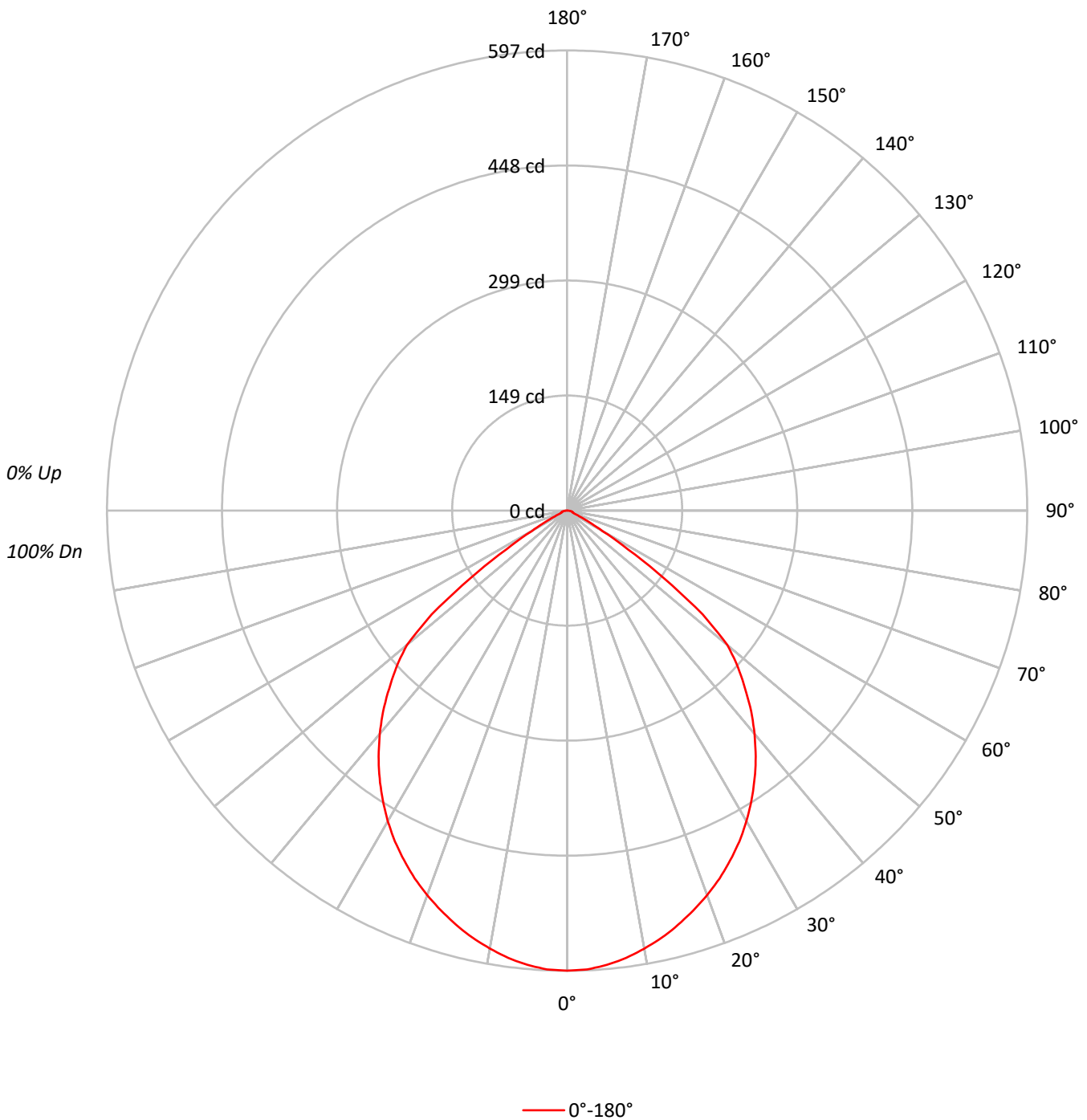
Lumens per Lamp: N/A
Luminaire Lumens: 1131.3 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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°	3263
5°	3247
10°	3203
15°	3149
20°	3089
25°	3020
30°	2937
35°	2831
40°	2698
45°	2525
50°	2308
55°	1465
60°	581
65°	222
70°	134
75°	146
80°	164
85°	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2525 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	5.0
10°-20°	156.8	13.9
20°-30°	230.5	20.4
30°-40°	264.8	23.4
40°-50°	251.6	22.2
50°-60°	139.5	12.3
60°-70°	21.8	1.9
70°-80°	7.3	0.6
80°-90°	3.0	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°	443.3	39.2
0°-40°	708.1	62.6
0°-60°	1099.3	97.2
0°-90°	1131.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	597	
5°	592	56
15°	556	157
25°	501	230
35°	424	265
45°	327	252
55°	154	140
65°	17	22
75°	7	7
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	596.9
2.5°	595.9
5°	591.7
7.5°	585.5
10°	577.0
12.5°	567.6
15°	556.4
17.5°	544.1
20°	530.9
22.5°	516.7
25°	500.7
27.5°	483.9
30°	465.3
32.5°	445.3
35°	424.2
37.5°	401.9
40°	378.1
42.5°	353.4
45°	326.6
47.5°	300.6
50°	271.4
52.5°	221.5
55°	153.7
57.5°	93.5
60°	53.1
62.5°	31.6
65°	17.2
67.5°	9.4
70°	8.4
72.5°	7.7
75°	6.9
77.5°	6.2
80°	5.2
82.5°	4.1
85°	2.9
87.5°	1.5
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	9.74	11.11	10.10	11.43	11.74	9.74	11.11	10.10	11.43	11.74
	3H	9.68	10.89	10.06	11.22	11.58	9.68	10.89	10.06	11.22	11.58
	4H	9.65	10.78	10.06	11.13	11.51	9.65	10.78	10.06	11.13	11.51
	6H	9.64	10.67	10.05	11.04	11.43	9.64	10.67	10.05	11.04	11.43
	8H	9.63	10.60	10.06	10.99	11.40	9.63	10.60	10.06	10.99	11.40
	12H	9.62	10.55	10.05	10.93	11.36	9.62	10.55	10.05	10.93	11.36
4H	2H	9.61	10.73	10.01	11.08	11.46	9.61	10.73	10.01	11.08	11.46
	3H	9.58	10.48	9.99	10.89	11.29	9.58	10.48	9.99	10.89	11.29
	4H	9.57	10.37	10.00	10.79	11.23	9.57	10.37	10.00	10.79	11.23
	6H	9.59	10.29	10.05	10.73	11.20	9.59	10.29	10.05	10.73	11.20
	8H	9.59	10.24	10.06	10.69	11.16	9.59	10.24	10.06	10.69	11.16
	12H	9.59	10.17	10.08	10.65	11.13	9.59	10.17	10.08	10.65	11.13
8H	4H	9.48	10.12	9.95	10.57	11.04	9.48	10.12	9.95	10.57	11.04
	6H	9.52	10.05	10.02	10.55	11.03	9.52	10.05	10.02	10.55	11.03
	8H	9.53	10.02	10.05	10.53	11.03	9.53	10.02	10.05	10.53	11.03
	12H	9.57	10.01	10.08	10.50	11.07	9.57	10.01	10.08	10.50	11.07
12H	4H	9.44	10.01	9.93	10.50	10.97	9.44	10.01	9.93	10.50	10.97
	6H	9.47	9.96	9.99	10.47	10.96	9.47	9.96	9.99	10.47	10.96
	8H	9.52	9.96	10.03	10.45	11.02	9.52	9.96	10.03	10.45	11.02