

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: P866689

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-15L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

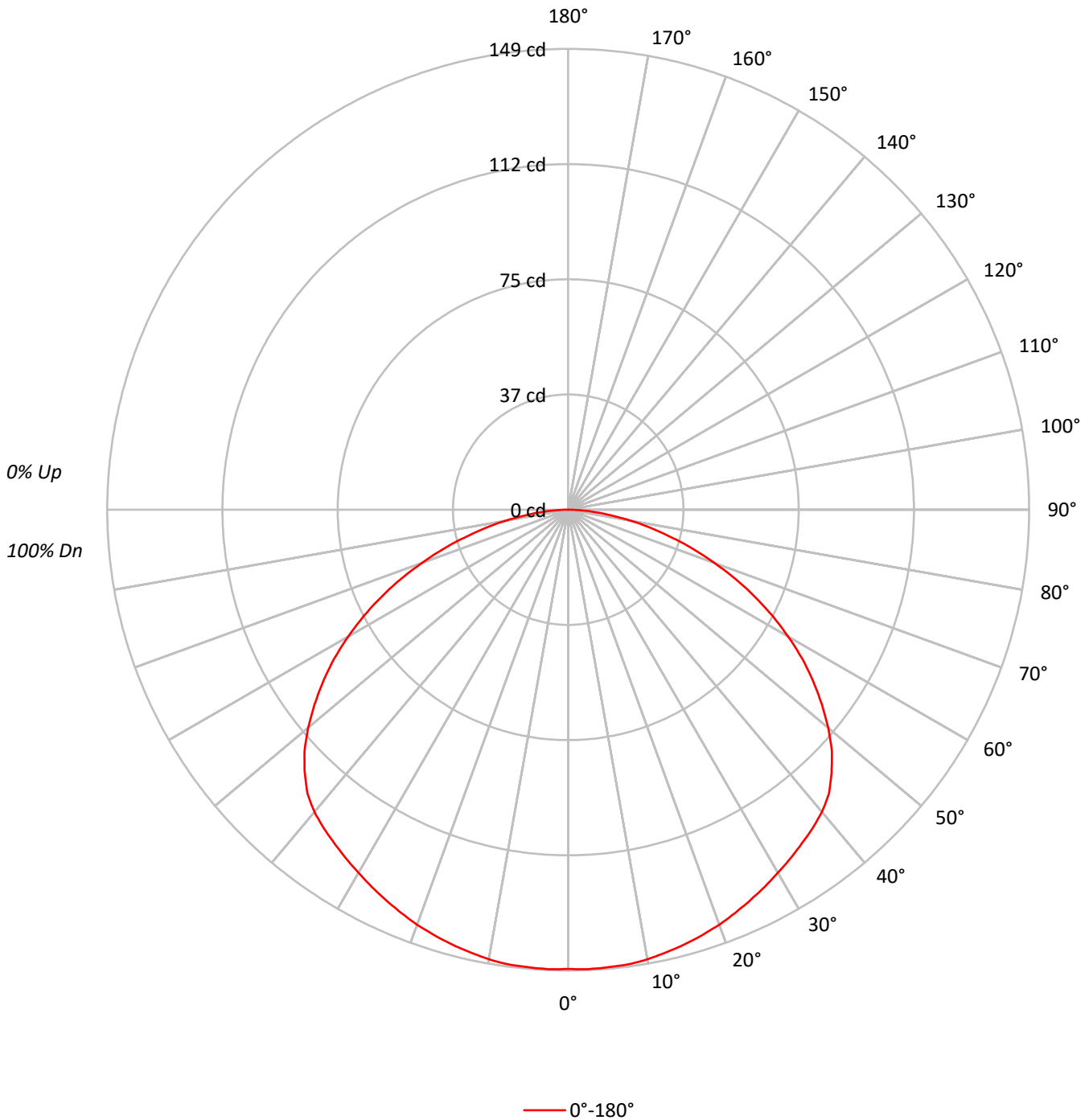
Lumens per Lamp: N/A
Luminaire Lumens: 493.7 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	812
5°	815
10°	819
15°	823
20°	831
25°	840
30°	855
35°	879
40°	911
45°	931
50°	933
55°	921
60°	898
65°	860
70°	804
75°	731
80°	649
85°	527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	2.9
10°-20°	41.1	8.3
20°-30°	64.4	13.0
30°-40°	82.6	16.7
40°-50°	92.6	18.8
50°-60°	86.2	17.5
60°-70°	65.7	13.3
70°-80°	36.9	7.5
80°-90°	9.9	2.0
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°	119.7	24.2
0°-40°	202.3	41.0
0°-60°	381.1	77.2
0°-90°	493.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	493.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	148	
5°	148	14
15°	146	41
25°	139	64
35°	132	83
45°	120	93
55°	97	86
65°	66	66
75°	35	37
85°	8	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	148.5
2.5°	148.7
5°	148.5
7.5°	148.3
10°	147.6
12.5°	146.6
15°	145.5
17.5°	144.2
20°	142.8
22.5°	141.1
25°	139.3
27.5°	137.5
30°	135.5
32.5°	133.7
35°	131.7
37.5°	129.8
40°	127.6
42.5°	124.7
45°	120.4
47.5°	115.6
50°	109.7
52.5°	103.3
55°	96.6
57.5°	89.7
60°	82.1
62.5°	74.5
65°	66.5
67.5°	58.5
70°	50.3
72.5°	42.5
75°	34.6
77.5°	27.4
80°	20.6
82.5°	14.0
85°	8.4
87.5°	3.7
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	12.12	13.81	12.48	14.12	14.43	12.12	13.81	12.48	14.12	14.43
	3H	13.90	15.43	14.28	15.76	16.12	13.90	15.43	14.28	15.76	16.12
	4H	14.55	15.99	14.94	16.34	16.71	14.55	15.99	14.94	16.34	16.71
	6H	15.01	16.35	15.42	16.71	17.11	15.01	16.35	15.42	16.71	17.11
	8H	15.16	16.44	15.58	16.82	17.22	15.16	16.44	15.58	16.82	17.22
	12H	15.25	16.48	15.68	16.86	17.28	15.25	16.48	15.68	16.86	17.28
4H	2H	12.76	14.20	13.16	14.55	14.92	12.76	14.20	13.16	14.55	14.92
	3H	14.76	15.97	15.17	16.37	16.76	14.76	15.97	15.17	16.37	16.76
	4H	15.53	16.62	15.96	17.03	17.47	15.53	16.62	15.96	17.03	17.47
	6H	16.12	17.08	16.57	17.52	17.97	16.12	17.08	16.57	17.52	17.97
	8H	16.31	17.20	16.76	17.65	18.11	16.31	17.20	16.76	17.65	18.11
	12H	16.44	17.25	16.92	17.72	18.19	16.44	17.25	16.92	17.72	18.19
8H	4H	15.83	16.73	16.29	17.17	17.64	15.83	16.73	16.29	17.17	17.64
	6H	16.54	17.29	17.03	17.77	18.25	16.54	17.29	17.03	17.77	18.25
	8H	16.79	17.47	17.30	17.97	18.46	16.79	17.47	17.30	17.97	18.46
	12H	16.99	17.59	17.50	18.08	18.64	16.99	17.59	17.50	18.08	18.64
12H	4H	15.87	16.68	16.35	17.15	17.62	15.87	16.68	16.35	17.15	17.62
	6H	16.59	17.27	17.10	17.77	18.26	16.59	17.27	17.10	17.77	18.26
	8H	16.90	17.50	17.41	17.99	18.55	16.90	17.50	17.41	17.99	18.55