

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: P865902

Luminaire Tested: PRLX-2001-M-927-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-15L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

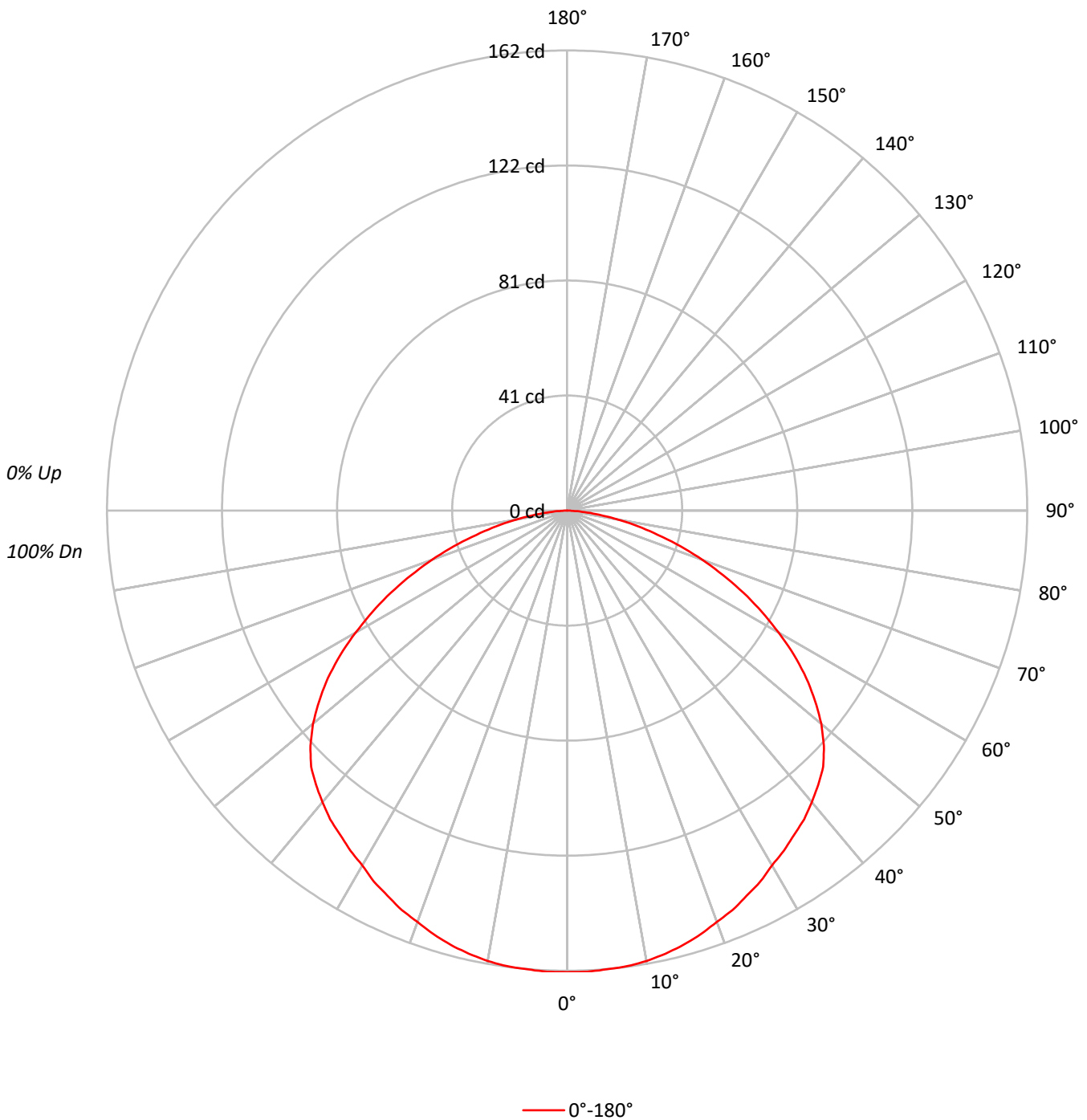
Lumens per Lamp: N/A
Luminaire Lumens: 516.9 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: 0.5 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	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	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	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1379
5°	1381
10°	1387
15°	1391
20°	1392
25°	1401
30°	1413
35°	1443
40°	1484
45°	1530
50°	1542
55°	1521
60°	1460
65°	1375
70°	1255
75°	1085
80°	875
85°	594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1542 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	3.0
10°-20°	44.7	8.6
20°-30°	69.1	13.4
30°-40°	87.4	16.9
40°-50°	97.9	18.9
50°-60°	91.5	17.7
60°-70°	67.6	13.1
70°-80°	35.5	6.9
80°-90°	7.7	1.5
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°	129.2	25.0
0°-40°	216.6	41.9
0°-60°	406.0	78.5
0°-90°	516.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	516.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	162	
5°	162	15
15°	158	45
25°	150	69
35°	139	87
45°	128	98
55°	103	91
65°	68	68
75°	33	36
85°	6	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	162.5
2.5°	162.5
5°	162.1
7.5°	161.8
10°	161.0
12.5°	159.8
15°	158.3
17.5°	156.4
20°	154.1
22.5°	152.2
25°	149.6
27.5°	147.3
30°	144.2
32.5°	142.0
35°	139.3
37.5°	137.0
40°	134.0
42.5°	130.9
45°	127.5
47.5°	122.6
50°	116.8
52.5°	110.0
55°	102.8
57.5°	94.8
60°	86.0
62.5°	77.3
65°	68.5
67.5°	59.4
70°	50.6
72.5°	41.9
75°	33.1
77.5°	25.5
80°	17.9
82.5°	11.4
85°	6.1
87.5°	1.9
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	13.89	15.56	14.25	15.87	16.19	13.89	15.56	14.25	15.87	16.19
	3H	15.55	17.06	15.92	17.39	17.75	15.55	17.06	15.92	17.39	17.75
	4H	16.11	17.53	16.51	17.88	18.25	16.11	17.53	16.51	17.88	18.25
	6H	16.47	17.79	16.88	18.15	18.54	16.47	17.79	16.88	18.15	18.54
	8H	16.56	17.82	16.98	18.21	18.61	16.56	17.82	16.98	18.21	18.61
	12H	16.60	17.81	17.03	18.19	18.62	16.60	17.81	17.03	18.19	18.62
4H	2H	14.49	15.92	14.89	16.27	16.64	14.49	15.92	14.89	16.27	16.64
	3H	16.36	17.56	16.77	17.95	18.35	16.36	17.56	16.77	17.95	18.35
	4H	17.03	18.11	17.46	18.52	18.96	17.03	18.11	17.46	18.52	18.96
	6H	17.50	18.44	17.95	18.88	19.34	17.50	18.44	17.95	18.88	19.34
	8H	17.62	18.50	18.08	18.95	19.41	17.62	18.50	18.08	18.95	19.41
	12H	17.69	18.49	18.17	18.96	19.43	17.69	18.49	18.17	18.96	19.43
8H	4H	17.29	18.18	17.75	18.62	19.08	17.29	18.18	17.75	18.62	19.08
	6H	17.85	18.58	18.34	19.07	19.54	17.85	18.58	18.34	19.07	19.54
	8H	18.02	18.68	18.53	19.18	19.67	18.02	18.68	18.53	19.18	19.67
	12H	18.13	18.71	18.64	19.20	19.76	18.13	18.71	18.64	19.20	19.76
12H	4H	17.31	18.11	17.79	18.58	19.05	17.31	18.11	17.79	18.58	19.05
	6H	17.88	18.54	18.39	19.04	19.53	17.88	18.54	18.39	19.04	19.53
	8H	18.09	18.67	18.60	19.16	19.72	18.09	18.67	18.60	19.16	19.72