

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: P865430

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-15L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

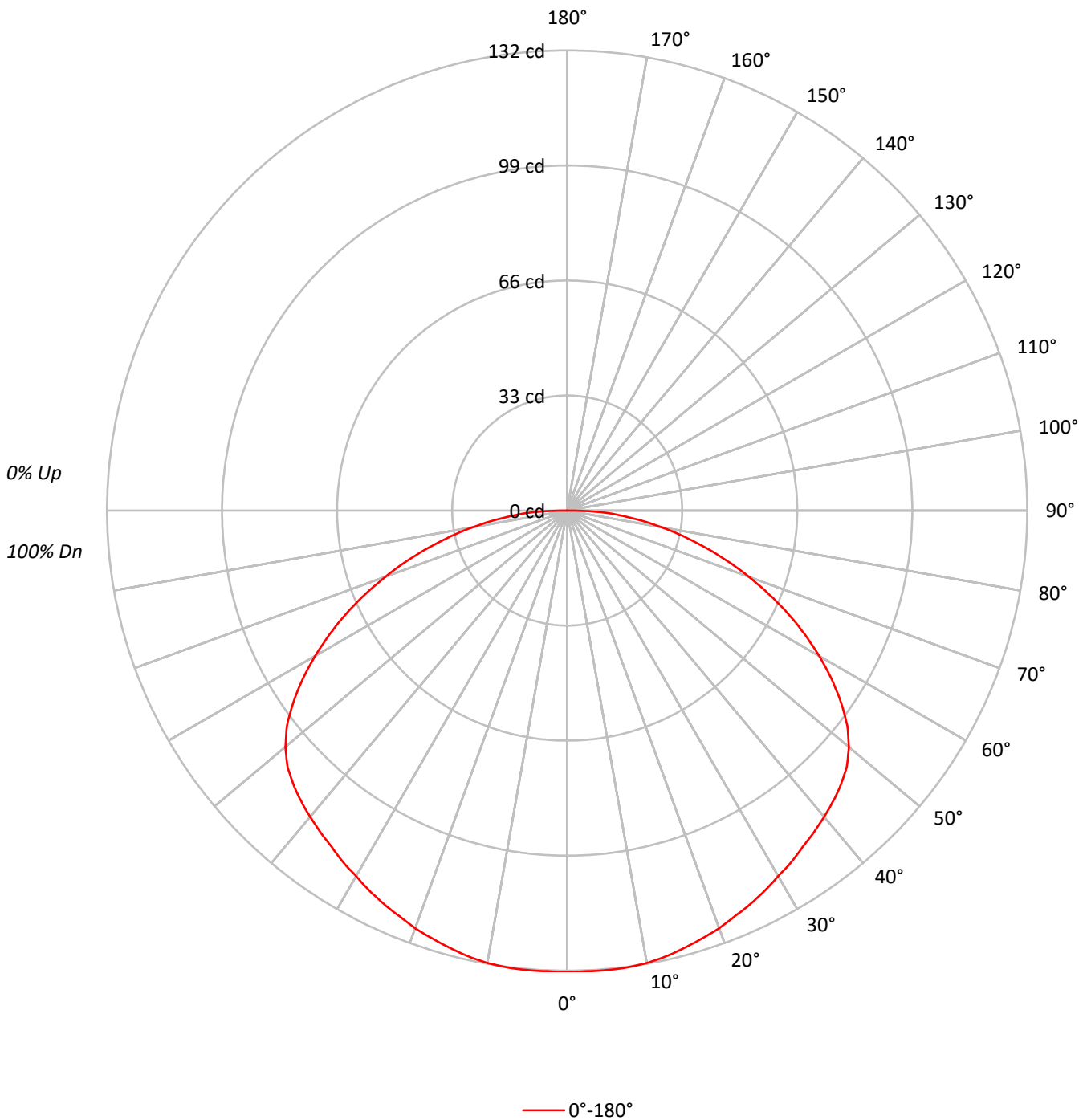
Lumens per Lamp: N/A
Luminaire Lumens: 480.7 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	107	102	97	93	105	100	95	91	95	92	88		91	88	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59		69	63	58		66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49		60	54	48		58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2159
5°	2166
10°	2183
15°	2193
20°	2213
25°	2241
30°	2281
35°	2346
40°	2442
45°	2563
50°	2677
55°	2727
60°	2724
65°	2698
70°	2642
75°	2590
80°	2583
85°	2807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 3627 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	2.6
10°-20°	36.7	7.6
20°-30°	57.5	12.0
30°-40°	74.0	15.4
40°-50°	85.7	17.8
50°-60°	85.4	17.8
60°-70°	69.0	14.4
70°-80°	43.5	9.1
80°-90°	16.2	3.4
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°	106.8	22.2
0°-40°	180.8	37.6
0°-60°	351.9	73.2
0°-90°	480.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	480.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	132	
5°	132	13
15°	130	37
25°	124	57
35°	118	74
45°	111	86
55°	96	85
65°	70	69
75°	41	44
85°	15	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	132.4
2.5°	132.3
5°	132.3
7.5°	132.2
10°	131.8
12.5°	131.0
15°	129.9
17.5°	128.7
20°	127.5
22.5°	125.9
25°	124.5
27.5°	122.9
30°	121.1
32.5°	119.6
35°	117.8
37.5°	116.3
40°	114.7
42.5°	113.0
45°	111.1
47.5°	108.8
50°	105.5
52.5°	101.3
55°	95.9
57.5°	90.0
60°	83.5
62.5°	76.8
65°	69.9
67.5°	62.7
70°	55.4
72.5°	48.3
75°	41.1
77.5°	34.2
80°	27.5
82.5°	21.0
85°	15.0
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	15.98	17.71	16.34	18.03	18.34	15.98	17.71	16.34	18.03	18.34
	3H	17.99	19.57	18.37	19.90	20.25	17.99	19.57	18.37	19.90	20.25
	4H	18.80	20.30	19.20	20.64	21.02	18.80	20.30	19.20	20.64	21.02
	6H	19.48	20.87	19.89	21.23	21.62	19.48	20.87	19.89	21.23	21.62
	8H	19.74	21.08	20.16	21.46	21.86	19.74	21.08	20.16	21.46	21.86
	12H	19.97	21.25	20.40	21.63	22.06	19.97	21.25	20.40	21.63	22.06
4H	2H	16.68	18.18	17.08	18.52	18.90	16.68	18.18	17.08	18.52	18.90
	3H	18.92	20.19	19.33	20.59	20.98	18.92	20.19	19.33	20.59	20.98
	4H	19.88	21.03	20.31	21.44	21.88	19.88	21.03	20.31	21.44	21.88
	6H	20.71	21.72	21.16	22.16	22.61	20.71	21.72	21.16	22.16	22.61
	8H	21.04	21.99	21.50	22.43	22.90	21.04	21.99	21.50	22.43	22.90
	12H	21.34	22.20	21.82	22.67	23.14	21.34	22.20	21.82	22.67	23.14
8H	4H	20.28	21.23	20.73	21.67	22.13	20.28	21.23	20.73	21.67	22.13
	6H	21.26	22.06	21.75	22.55	23.02	21.26	22.06	21.75	22.55	23.02
	8H	21.70	22.42	22.20	22.92	23.40	21.70	22.42	22.20	22.92	23.40
	12H	22.12	22.75	22.62	23.24	23.80	22.12	22.75	22.62	23.24	23.80
12H	4H	20.34	21.20	20.82	21.67	22.14	20.34	21.20	20.82	21.67	22.14
	6H	21.36	22.08	21.87	22.59	23.07	21.36	22.08	21.87	22.59	23.07
	8H	21.88	22.52	22.38	23.00	23.56	21.88	22.52	22.38	23.00	23.56