

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: P865434

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-15L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

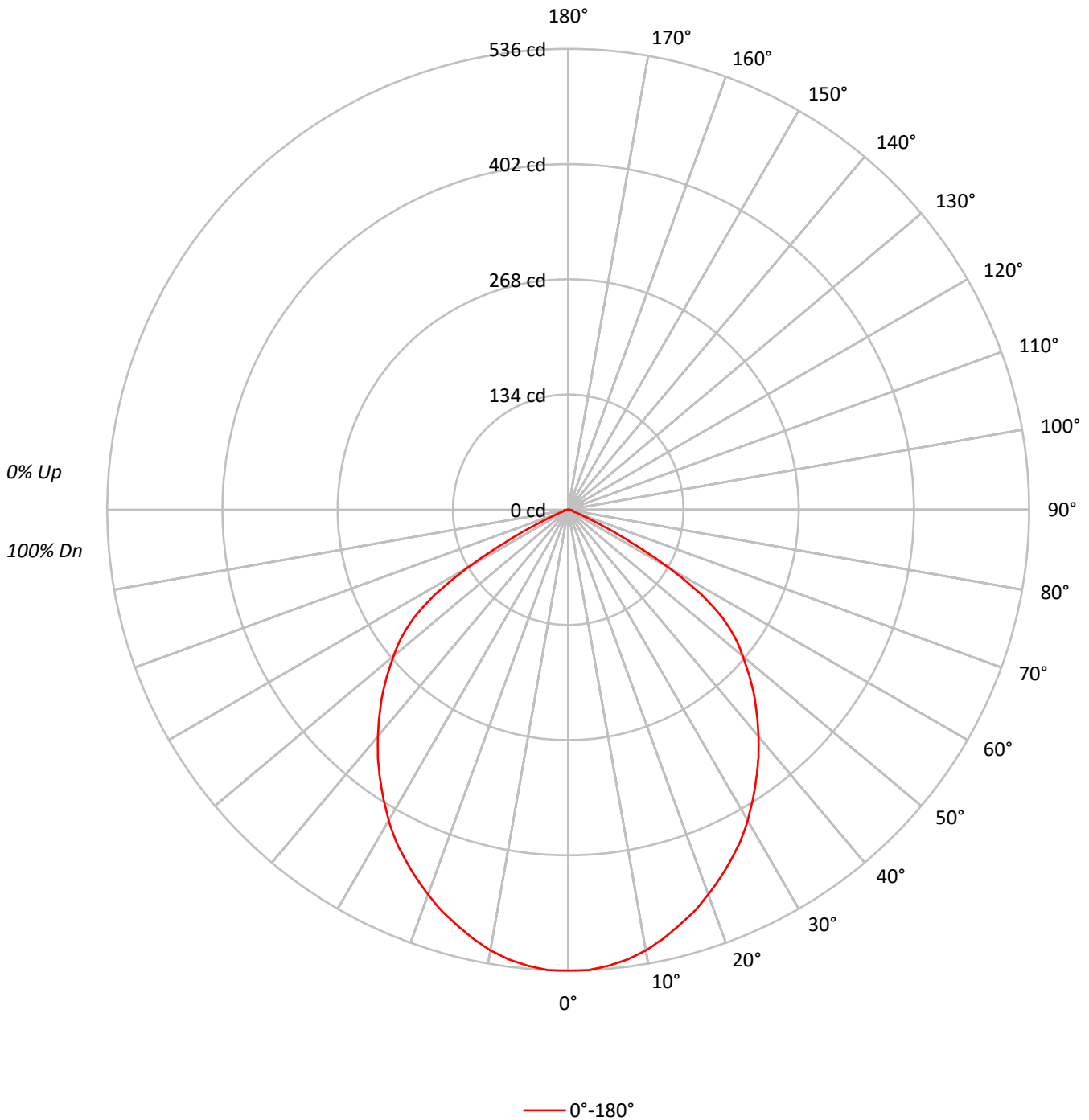
Lumens per Lamp: N/A
Luminaire Lumens: 1122.9 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8744
5°	8718
10°	8620
15°	8444
20°	8264
25°	8073
30°	7861
35°	7594
40°	7328
45°	7054
50°	6727
55°	6242
60°	4420
65°	1621
70°	401
75°	378
80°	451
85°	449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7054 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	4.5
10°-20°	141.0	12.6
20°-30°	206.6	18.4
30°-40°	238.6	21.2
40°-50°	235.5	21.0
50°-60°	189.1	16.8
60°-70°	52.8	4.7
70°-80°	6.2	0.6
80°-90°	2.6	0.2
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°	398.1	35.5
0°-40°	636.7	56.7
0°-60°	1061.4	94.5
0°-90°	1122.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1122.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	536	
5°	532	50
15°	500	141
25°	449	207
35°	381	239
45°	306	236
55°	220	189
65°	42	53
75°	6	6
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	536.1
2.5°	536.1
5°	532.5
7.5°	527.7
10°	520.5
12.5°	510.9
15°	500.1
17.5°	489.3
20°	476.1
22.5°	462.9
25°	448.6
27.5°	434.2
30°	417.4
32.5°	399.4
35°	381.4
37.5°	363.4
40°	344.2
42.5°	325.0
45°	305.8
47.5°	285.4
50°	265.1
52.5°	244.7
55°	219.5
57.5°	183.5
60°	135.5
62.5°	82.8
65°	42.0
67.5°	19.2
70°	8.4
72.5°	6.0
75°	6.0
77.5°	4.8
80°	4.8
82.5°	3.6
85°	2.4
87.5°	1.2
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	18.24	19.69	18.60	20.01	20.32	18.24	19.69	18.60	20.01	20.32
	3H	18.16	19.45	18.54	19.78	20.14	18.16	19.45	18.54	19.78	20.14
	4H	18.10	19.30	18.50	19.65	20.03	18.10	19.30	18.50	19.65	20.03
	6H	18.05	19.15	18.46	19.51	19.91	18.05	19.15	18.46	19.51	19.91
	8H	18.01	19.06	18.44	19.45	19.85	18.01	19.06	18.44	19.45	19.85
	12H	17.98	18.98	18.41	19.36	19.79	17.98	18.98	18.41	19.36	19.79
4H	2H	18.16	19.35	18.56	19.70	20.08	18.16	19.35	18.56	19.70	20.08
	3H	18.09	19.06	18.50	19.46	19.87	18.09	19.06	18.50	19.46	19.87
	4H	18.03	18.89	18.46	19.31	19.75	18.03	18.89	18.46	19.31	19.75
	6H	17.98	18.72	18.44	19.16	19.63	17.98	18.72	18.44	19.16	19.63
	8H	17.94	18.63	18.40	19.08	19.55	17.94	18.63	18.40	19.08	19.55
	12H	17.90	18.52	18.39	19.00	19.48	17.90	18.52	18.39	19.00	19.48
8H	4H	17.91	18.61	18.38	19.05	19.52	17.91	18.61	18.38	19.05	19.52
	6H	17.85	18.42	18.35	18.91	19.39	17.85	18.42	18.35	18.91	19.39
	8H	17.80	18.32	18.32	18.83	19.32	17.80	18.32	18.32	18.83	19.32
	12H	17.77	18.24	18.29	18.73	19.30	17.77	18.24	18.29	18.73	19.30
12H	4H	17.87	18.49	18.36	18.97	19.44	17.87	18.49	18.36	18.97	19.44
	6H	17.79	18.31	18.31	18.82	19.31	17.79	18.31	18.31	18.82	19.31
	8H	17.77	18.23	18.28	18.72	19.29	17.77	18.23	18.28	18.72	19.29