

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: P865442

Luminaire Tested: PRLX-2001-S-927-20L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865442
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-927-20L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

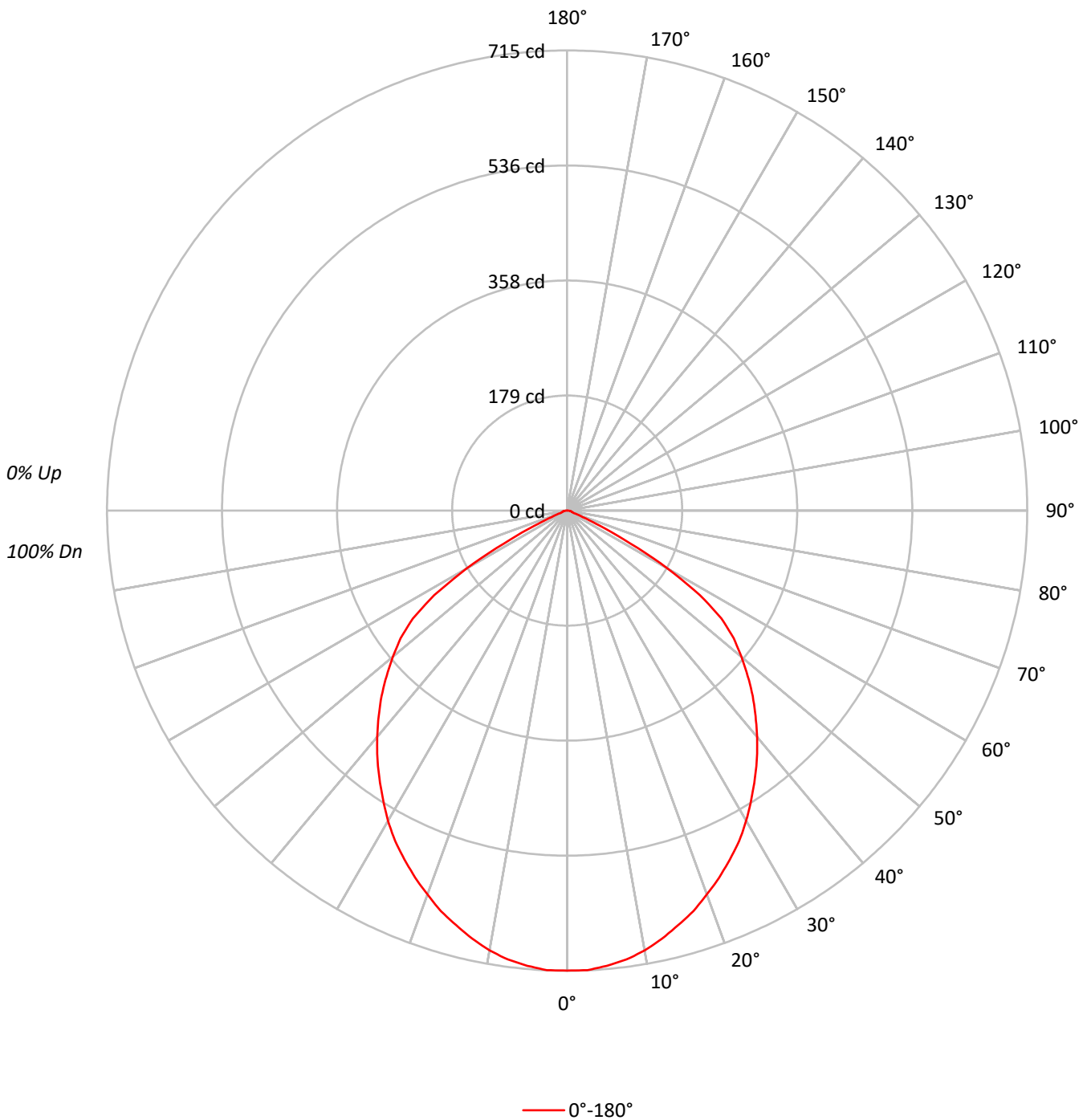
Lumens per Lamp: N/A
Luminaire Lumens: 1497.2 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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°	11658
5°	11624
10°	11494
15°	11259
20°	11020
25°	10764
30°	10481
35°	10125
40°	9773
45°	9406
50°	8967
55°	8320
60°	5894
65°	2161
70°	534
75°	504
80°	601
85°	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9406 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	4.5
10°-20°	188.0	12.6
20°-30°	275.5	18.4
30°-40°	318.1	21.2
40°-50°	314.1	21.0
50°-60°	252.1	16.8
60°-70°	70.4	4.7
70°-80°	8.2	0.6
80°-90°	3.5	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°	530.8	35.5
0°-40°	848.9	56.7
0°-60°	1415.1	94.5
0°-90°	1497.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	715	
5°	710	67
15°	667	188
25°	598	276
35°	508	318
45°	408	314
55°	293	252
65°	56	70
75°	8	8
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	714.8
2.5°	714.8
5°	710.0
7.5°	703.6
10°	694.0
12.5°	681.2
15°	666.8
17.5°	652.4
20°	634.9
22.5°	617.3
25°	598.1
27.5°	578.9
30°	556.5
32.5°	532.5
35°	508.5
37.5°	484.5
40°	459.0
42.5°	433.4
45°	407.8
47.5°	380.6
50°	353.4
52.5°	326.2
55°	292.6
57.5°	244.7
60°	180.7
62.5°	110.3
65°	56.0
67.5°	25.6
70°	11.2
72.5°	8.0
75°	8.0
77.5°	6.4
80°	6.4
82.5°	4.8
85°	3.2
87.5°	1.6
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	19.24	20.69	19.60	21.01	21.32	19.24	20.69	19.60	21.01	21.32
	3H	19.16	20.45	19.54	20.78	21.14	19.16	20.45	19.54	20.78	21.14
	4H	19.10	20.30	19.50	20.65	21.03	19.10	20.30	19.50	20.65	21.03
	6H	19.05	20.15	19.46	20.51	20.91	19.05	20.15	19.46	20.51	20.91
	8H	19.01	20.06	19.44	20.45	20.85	19.01	20.06	19.44	20.45	20.85
	12H	18.98	19.98	19.41	20.36	20.79	18.98	19.98	19.41	20.36	20.79
4H	2H	19.16	20.36	19.56	20.70	21.09	19.16	20.36	19.56	20.70	21.09
	3H	19.09	20.06	19.50	20.46	20.87	19.09	20.06	19.50	20.46	20.87
	4H	19.03	19.89	19.46	20.31	20.75	19.03	19.89	19.46	20.31	20.75
	6H	18.98	19.72	19.44	20.16	20.63	18.98	19.72	19.44	20.16	20.63
	8H	18.94	19.63	19.40	20.08	20.55	18.94	19.63	19.40	20.08	20.55
	12H	18.91	19.52	19.39	20.00	20.48	18.91	19.52	19.39	20.00	20.48
8H	4H	18.91	19.61	19.38	20.05	20.52	18.91	19.61	19.38	20.05	20.52
	6H	18.85	19.42	19.35	19.91	20.39	18.85	19.42	19.35	19.91	20.39
	8H	18.80	19.32	19.32	19.83	20.32	18.80	19.32	19.32	19.83	20.32
	12H	18.77	19.24	19.29	19.73	20.30	18.77	19.24	19.29	19.73	20.30
12H	4H	18.87	19.49	19.36	19.97	20.45	18.87	19.49	19.36	19.97	20.45
	6H	18.79	19.31	19.31	19.82	20.31	18.79	19.31	19.31	19.82	20.31
	8H	18.77	19.23	19.28	19.72	20.29	18.77	19.23	19.28	19.72	20.29