

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: P865914

Luminaire Tested: PRLX-2001-M-927-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-25L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

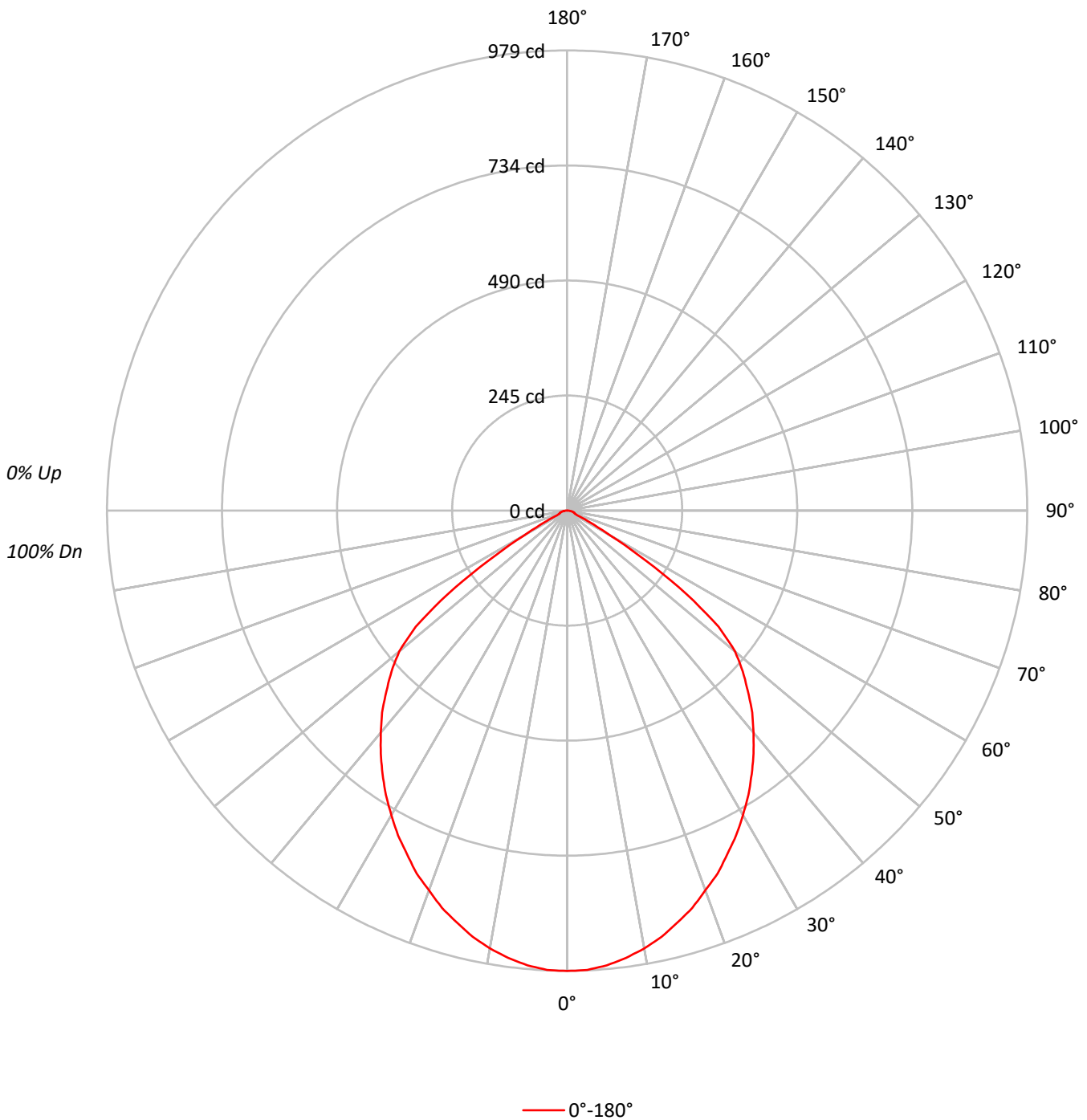
Lumens per Lamp: N/A
Luminaire Lumens: 1892.1 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	38		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	39	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8311
5°	8272
10°	8150
15°	7969
20°	7762
25°	7549
30°	7329
35°	7090
40°	6831
45°	6524
50°	6155
55°	4609
60°	1819
65°	496
70°	424
75°	459
80°	494
85°	497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6524 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	4.9
10°-20°	255.6	13.5
20°-30°	371.6	19.6
30°-40°	428.0	22.6
40°-50°	419.5	22.2
50°-60°	266.5	14.1
60°-70°	38.8	2.1
70°-80°	14.7	0.8
80°-90°	5.5	0.3
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°	719.1	38.0
0°-40°	1147.1	60.6
0°-60°	1833.1	96.9
0°-90°	1892.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	979	
5°	971	92
15°	907	256
25°	806	372
35°	684	428
45°	544	419
55°	312	266
65°	25	39
75°	14	15
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	979.4
2.5°	978.1
5°	971.1
7.5°	959.7
10°	945.8
12.5°	928.6
15°	907.1
17.5°	886.1
20°	859.5
22.5°	836.0
25°	806.2
27.5°	778.9
30°	747.9
32.5°	717.4
35°	684.4
37.5°	651.4
40°	616.6
42.5°	582.9
45°	543.6
47.5°	506.8
50°	466.2
52.5°	406.0
55°	311.5
57.5°	198.5
60°	107.2
62.5°	53.9
65°	24.7
67.5°	17.8
70°	17.1
72.5°	15.9
75°	14.0
77.5°	12.1
80°	10.1
82.5°	7.6
85°	5.1
87.5°	2.5
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	14.66	16.06	15.03	16.38	16.69	14.66	16.06	15.03	16.38	16.69
	3H	14.59	15.83	14.97	16.16	16.52	14.59	15.83	14.97	16.16	16.52
	4H	14.57	15.72	14.97	16.07	16.45	14.57	15.72	14.97	16.07	16.45
	6H	14.55	15.60	14.96	15.97	16.36	14.55	15.60	14.96	15.97	16.36
	8H	14.53	15.53	14.96	15.92	16.32	14.53	15.53	14.96	15.92	16.32
	12H	14.51	15.46	14.95	15.85	16.28	14.51	15.46	14.95	15.85	16.28
4H	2H	14.50	15.65	14.91	16.00	16.38	14.50	15.65	14.91	16.00	16.38
	3H	14.47	15.39	14.88	15.79	16.20	14.47	15.39	14.88	15.79	16.20
	4H	14.45	15.28	14.89	15.69	16.14	14.45	15.28	14.89	15.69	16.14
	6H	14.47	15.17	14.93	15.62	16.09	14.47	15.17	14.93	15.62	16.09
	8H	14.45	15.12	14.92	15.56	16.03	14.45	15.12	14.92	15.56	16.03
	12H	14.45	15.03	14.93	15.52	15.99	14.45	15.03	14.93	15.52	15.99
8H	4H	14.36	15.02	14.83	15.47	15.94	14.36	15.02	14.83	15.47	15.94
	6H	14.38	14.93	14.88	15.43	15.91	14.38	14.93	14.88	15.43	15.91
	8H	14.38	14.88	14.90	15.40	15.89	14.38	14.88	14.90	15.40	15.89
	12H	14.40	14.85	14.91	15.34	15.91	14.40	14.85	14.91	15.34	15.91
12H	4H	14.32	14.91	14.81	15.39	15.87	14.32	14.91	14.81	15.39	15.87
	6H	14.33	14.83	14.85	15.35	15.84	14.33	14.83	14.85	15.35	15.84
	8H	14.36	14.81	14.88	15.31	15.87	14.36	14.81	14.88	15.31	15.87