

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: P865445

Luminaire Tested: PRLX-2001-S-927-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2001-S-927-25L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

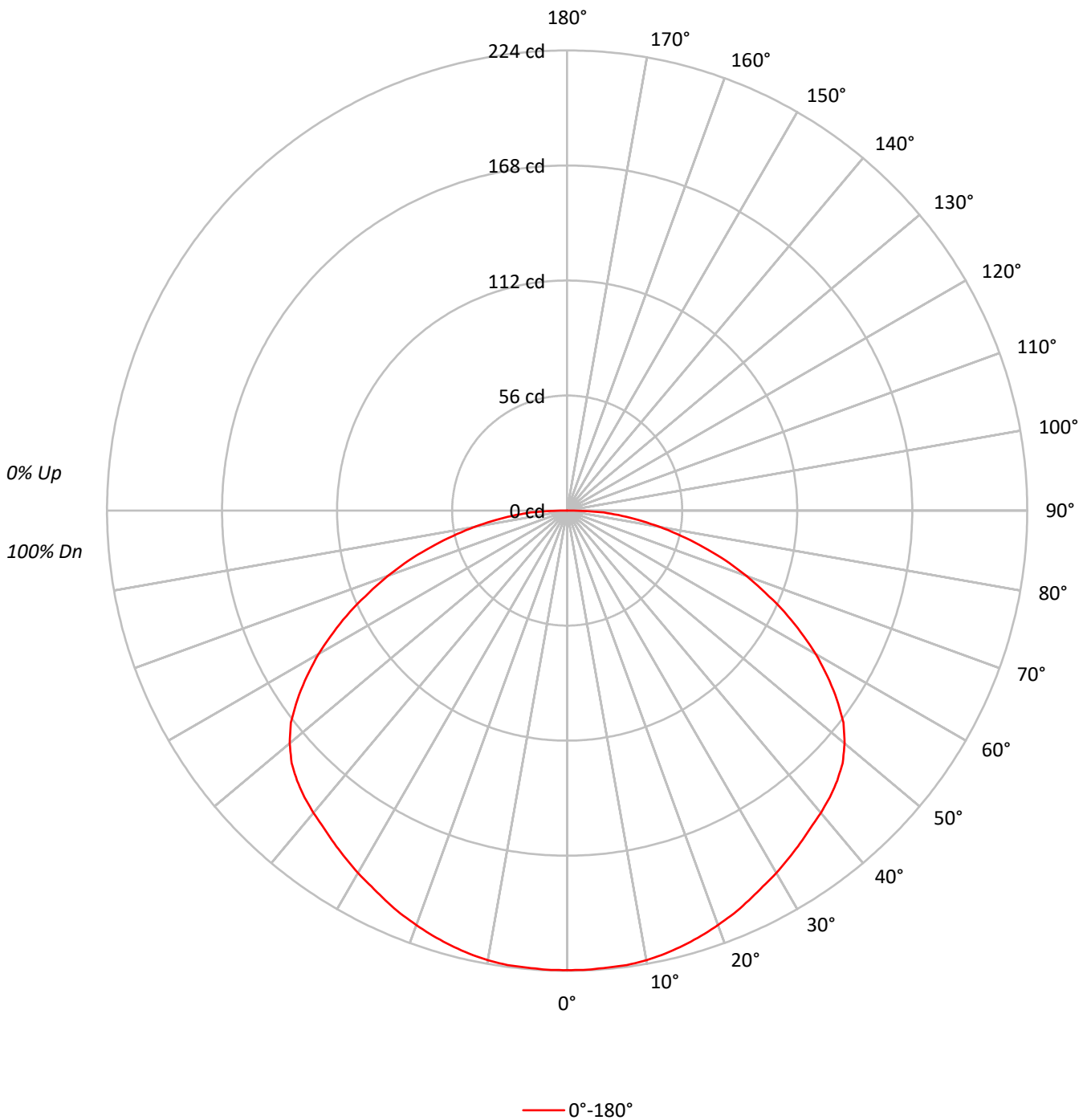
Lumens per Lamp: N/A
Luminaire Lumens: 804.9 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	89		91	89	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	72	64	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36		48	41	36		47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32		44	37	31		43	36	31	29
8	58	43	35	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	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3649
5°	3656
10°	3682
15°	3700
20°	3727
25°	3767
30°	3836
35°	3936
40°	4090
45°	4288
50°	4473
55°	4558
60°	4557
65°	4504
70°	4421
75°	4323
80°	4283
85°	4678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	2.6
10°-20°	61.9	7.7
20°-30°	96.7	12.0
30°-40°	124.1	15.4
40°-50°	143.4	17.8
50°-60°	142.8	17.7
60°-70°	115.2	14.3
70°-80°	72.7	9.0
80°-90°	26.8	3.3
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°	179.9	22.4
0°-40°	304.0	37.8
0°-60°	590.2	73.3
0°-90°	804.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	804.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	224	
5°	223	21
15°	219	62
25°	209	97
35°	198	124
45°	186	143
55°	160	143
65°	117	115
75°	69	73
85°	25	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	223.7
2.5°	223.7
5°	223.3
7.5°	223.1
10°	222.3
12.5°	220.9
15°	219.1
17.5°	217.1
20°	214.7
22.5°	212.3
25°	209.3
27.5°	206.3
30°	203.7
32.5°	200.7
35°	197.7
37.5°	194.7
40°	192.1
42.5°	189.3
45°	185.9
47.5°	181.9
50°	176.3
52.5°	169.5
55°	160.3
57.5°	150.3
60°	139.7
62.5°	128.3
65°	116.7
67.5°	104.3
70°	92.7
72.5°	80.8
75°	68.6
77.5°	57.0
80°	45.6
82.5°	34.8
85°	25.0
87.5°	16.0
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	17.75	19.48	18.12	19.80	20.11	17.75	19.48	18.12	19.80	20.11
	3H	19.76	21.34	20.14	21.66	22.02	19.76	21.34	20.14	21.66	22.02
	4H	20.57	22.07	20.97	22.41	22.79	20.57	22.07	20.97	22.41	22.79
	6H	21.24	22.63	21.65	23.00	23.39	21.24	22.63	21.65	23.00	23.39
	8H	21.51	22.84	21.93	23.22	23.62	21.51	22.84	21.93	23.22	23.62
	12H	21.73	23.01	22.16	23.39	23.82	21.73	23.01	22.16	23.39	23.82
4H	2H	18.46	19.95	18.85	20.30	20.67	18.46	19.95	18.85	20.30	20.67
	3H	20.70	21.96	21.11	22.36	22.76	20.70	21.96	21.11	22.36	22.76
	4H	21.65	22.80	22.08	23.21	23.65	21.65	22.80	22.08	23.21	23.65
	6H	22.47	23.49	22.92	23.93	24.38	22.47	23.49	22.92	23.93	24.38
	8H	22.80	23.75	23.26	24.19	24.66	22.80	23.75	23.26	24.19	24.66
	12H	23.10	23.96	23.58	24.43	24.90	23.10	23.96	23.58	24.43	24.90
8H	4H	22.05	23.00	22.50	23.44	23.90	22.05	23.00	22.50	23.44	23.90
	6H	23.03	23.82	23.52	24.31	24.78	23.03	23.82	23.52	24.31	24.78
	8H	23.46	24.18	23.96	24.68	25.16	23.46	24.18	23.96	24.68	25.16
	12H	23.87	24.51	24.37	25.00	25.55	23.87	24.51	24.37	25.00	25.55
12H	4H	22.11	22.97	22.59	23.44	23.91	22.11	22.97	22.59	23.44	23.91
	6H	23.13	23.85	23.63	24.35	24.83	23.13	23.85	23.63	24.35	24.83
	8H	23.63	24.27	24.14	24.76	25.32	23.63	24.27	24.14	24.76	25.32