

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: P865444

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-25L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

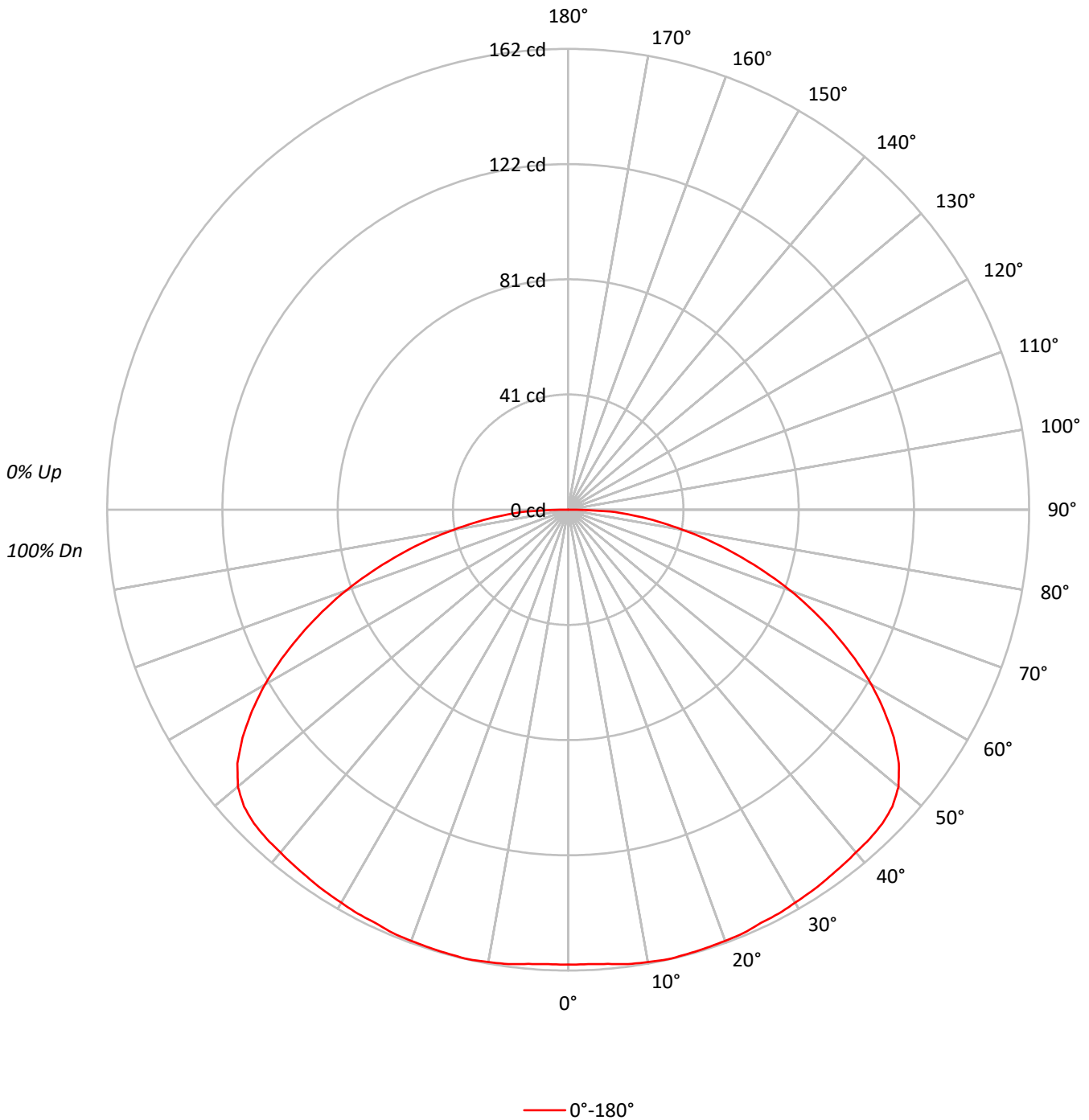
Lumens per Lamp: N/A
Luminaire Lumens: 671.6 lumens
Efficiency: N/A
Efficacy: 23.1 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70	78	73	68	75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47	59	52	47	57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40	53	45	40	51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35	47	40	34	45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30	43	35	30	41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2608
5°	2624
10°	2675
15°	2730
20°	2800
25°	2885
30°	3004
35°	3156
40°	3349
45°	3601
50°	3844
55°	3972
60°	4016
65°	3994
70°	3958
75°	3882
80°	3851
85°	4267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5534 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.3	2.3
10°-20°	45.8	6.8
20°-30°	74.3	11.1
30°-40°	99.5	14.8
40°-50°	120.4	17.9
50°-60°	124.3	18.5
60°-70°	102.4	15.2
70°-80°	65.2	9.7
80°-90°	24.5	3.6
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°	135.4	20.2
0°-40°	234.9	35.0
0°-60°	479.6	71.4
0°-90°	671.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	160	
5°	160	15
15°	162	46
25°	160	74
35°	158	100
45°	156	120
55°	140	124
65°	104	102
75°	62	65
85°	23	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	159.9
2.5°	159.9
5°	160.3
7.5°	161.1
10°	161.5
12.5°	161.9
15°	161.7
17.5°	161.5
20°	161.3
22.5°	161.1
25°	160.3
27.5°	160.1
30°	159.5
32.5°	159.1
35°	158.5
37.5°	157.9
40°	157.3
42.5°	156.9
45°	156.1
47.5°	154.5
50°	151.5
52.5°	146.5
55°	139.7
57.5°	131.7
60°	123.1
62.5°	113.5
65°	103.5
67.5°	93.5
70°	83.0
72.5°	72.2
75°	61.6
77.5°	51.4
80°	41.0
82.5°	31.8
85°	22.8
87.5°	14.8
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	17.42	19.19	17.79	19.50	19.82	17.42	19.19	17.79	19.50	19.82
	3H	19.50	21.11	19.88	21.44	21.80	19.50	21.11	19.88	21.44	21.80
	4H	20.33	21.86	20.73	22.21	22.58	20.33	21.86	20.73	22.21	22.58
	6H	21.03	22.45	21.44	22.81	23.20	21.03	22.45	21.44	22.81	23.20
	8H	21.30	22.66	21.72	23.05	23.45	21.30	22.66	21.72	23.05	23.45
	12H	21.54	22.85	21.97	23.23	23.66	21.54	22.85	21.97	23.23	23.66
4H	2H	18.15	19.67	18.54	20.02	20.39	18.15	19.67	18.54	20.02	20.39
	3H	20.45	21.75	20.86	22.15	22.54	20.45	21.75	20.86	22.15	22.54
	4H	21.43	22.61	21.86	23.02	23.46	21.43	22.61	21.86	23.02	23.46
	6H	22.28	23.32	22.73	23.76	24.20	22.28	23.32	22.73	23.76	24.20
	8H	22.62	23.60	23.07	24.04	24.50	22.62	23.60	23.07	24.04	24.50
	12H	22.93	23.82	23.41	24.29	24.76	22.93	23.82	23.41	24.29	24.76
8H	4H	21.84	22.82	22.30	23.26	23.72	21.84	22.82	22.30	23.26	23.72
	6H	22.84	23.67	23.33	24.15	24.62	22.84	23.67	23.33	24.15	24.62
	8H	23.29	24.03	23.79	24.53	25.02	23.29	24.03	23.79	24.53	25.02
	12H	23.73	24.38	24.23	24.87	25.43	23.73	24.38	24.23	24.87	25.43
12H	4H	21.91	22.80	22.39	23.27	23.73	21.91	22.80	22.39	23.27	23.73
	6H	22.95	23.69	23.45	24.19	24.67	22.95	23.69	23.45	24.19	24.67
	8H	23.48	24.14	23.98	24.62	25.18	23.48	24.14	23.98	24.62	25.18