

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: P866776

Luminaire Tested: PRLX-2001-L-930-67L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-67L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

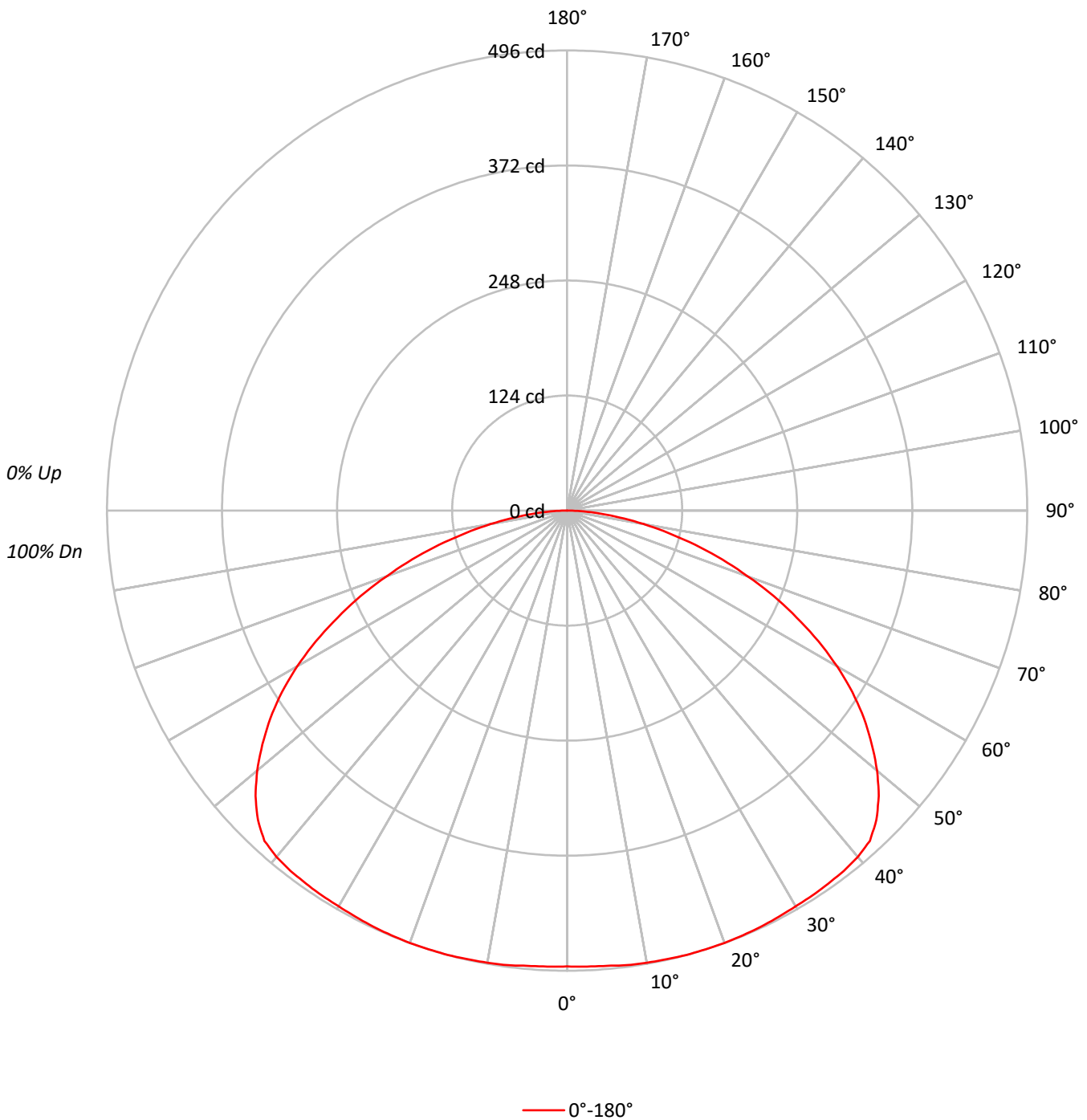
Lumens per Lamp: N/A
Luminaire Lumens: 1895.6 lumens
Efficiency: N/A
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28	40	33	28	39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25	37	30	25	36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2686
5°	2703
10°	2747
15°	2807
20°	2885
25°	2985
30°	3109
35°	3275
40°	3478
45°	3645
50°	3710
55°	3724
60°	3675
65°	3531
70°	3309
75°	3016
80°	2632
85°	2070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 3724 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	2.5
10°-20°	140.5	7.4
20°-30°	228.9	12.1
30°-40°	308.1	16.3
40°-50°	361.8	19.1
50°-60°	348.0	18.4
60°-70°	269.9	14.2
70°-80°	151.5	8.0
80°-90°	39.7	2.1
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°	416.5	22.0
0°-40°	724.6	38.2
0°-60°	1434.5	75.7
0°-90°	1895.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1895.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	491	
5°	492	47
15°	496	141
25°	495	229
35°	491	308
45°	472	362
55°	391	348
65°	273	270
75°	143	152
85°	33	40
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	491.4
2.5°	492.0
5°	492.5
7.5°	494.2
10°	494.8
12.5°	495.4
15°	495.9
17.5°	495.9
20°	495.9
22.5°	495.4
25°	494.8
27.5°	493.7
30°	492.5
32.5°	492.0
35°	490.8
37.5°	489.7
40°	487.4
42.5°	482.9
45°	471.5
47.5°	455.6
50°	436.2
52.5°	414.0
55°	390.7
57.5°	364.6
60°	336.1
62.5°	305.4
65°	273.0
67.5°	241.1
70°	207.0
72.5°	175.2
75°	142.8
77.5°	111.5
80°	83.6
82.5°	56.9
85°	33.0
87.5°	14.2
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	17.15	18.87	17.51	19.18	19.50	17.15	18.87	17.51	19.18	19.50
	3H	18.97	20.53	19.35	20.86	21.22	18.97	20.53	19.35	20.86	21.22
	4H	19.63	21.10	20.03	21.45	21.82	19.63	21.10	20.03	21.45	21.82
	6H	20.09	21.46	20.50	21.82	22.21	20.09	21.46	20.50	21.82	22.21
	8H	20.23	21.54	20.66	21.93	22.33	20.23	21.54	20.66	21.93	22.33
	12H	20.32	21.58	20.75	21.96	22.39	20.32	21.58	20.75	21.96	22.39
4H	2H	17.81	19.28	18.21	19.63	20.00	17.81	19.28	18.21	19.63	20.00
	3H	19.84	21.08	20.25	21.48	21.88	19.84	21.08	20.25	21.48	21.88
	4H	20.62	21.75	21.05	22.16	22.59	20.62	21.75	21.05	22.16	22.59
	6H	21.21	22.19	21.66	22.63	23.09	21.21	22.19	21.66	22.63	23.09
	8H	21.40	22.32	21.85	22.76	23.22	21.40	22.32	21.85	22.76	23.22
	12H	21.52	22.36	22.00	22.83	23.30	21.52	22.36	22.00	22.83	23.30
8H	4H	20.94	21.86	21.39	22.30	22.76	20.94	21.86	21.39	22.30	22.76
	6H	21.63	22.40	22.13	22.89	23.36	21.63	22.40	22.13	22.89	23.36
	8H	21.89	22.58	22.39	23.08	23.56	21.89	22.58	22.39	23.08	23.56
	12H	22.08	22.69	22.58	23.18	23.74	22.08	22.69	22.58	23.18	23.74
12H	4H	20.97	21.80	21.45	22.28	22.74	20.97	21.80	21.45	22.28	22.74
	6H	21.69	22.38	22.19	22.88	23.37	21.69	22.38	22.19	22.88	23.37
	8H	21.99	22.61	22.50	23.10	23.65	21.99	22.61	22.50	23.10	23.65