

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: P866664

Luminaire Tested: PRLX-2001-L-927-100L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866664
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-927-100L-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 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

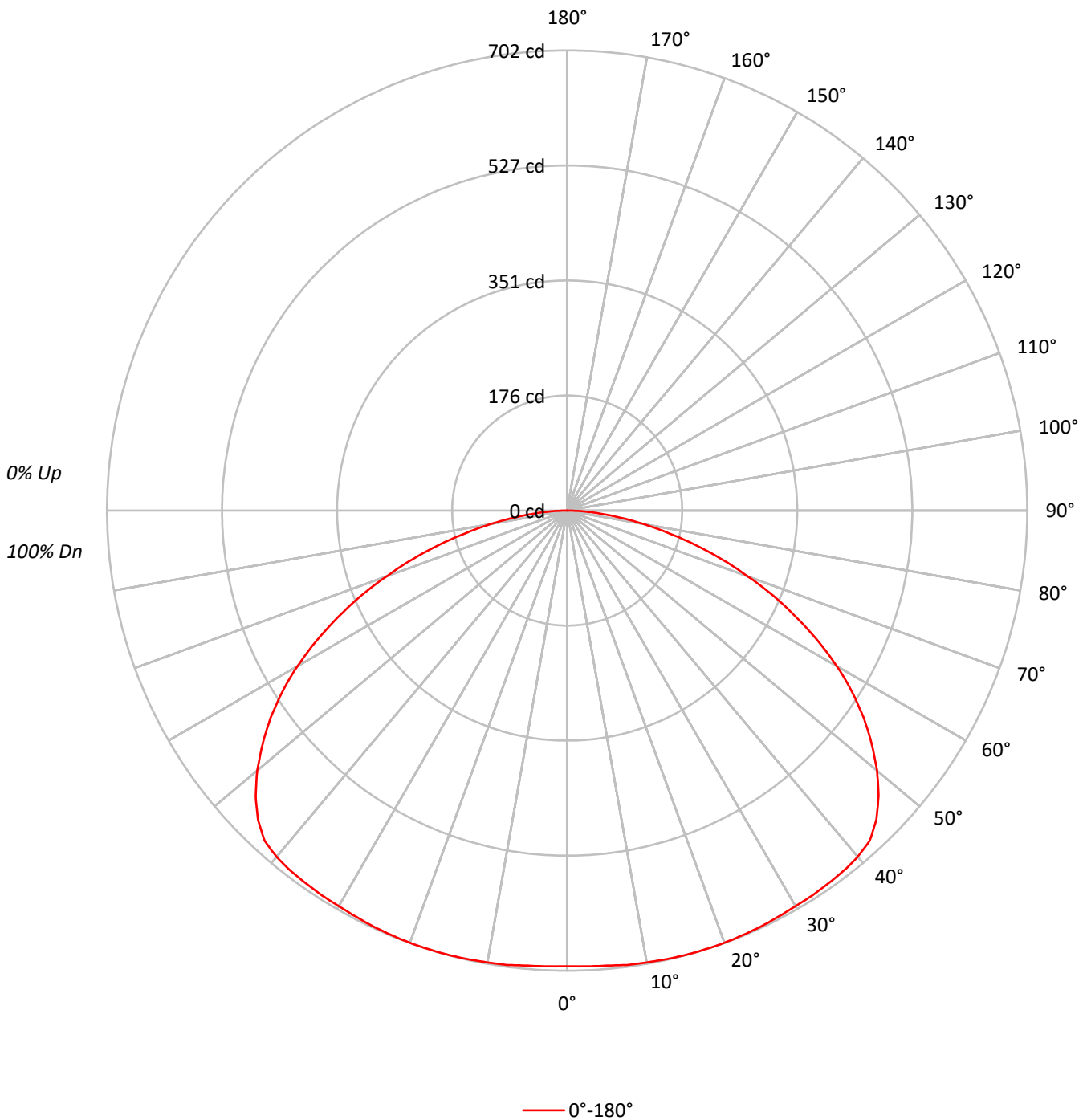
Lumens per Lamp: N/A
Luminaire Lumens: 2682.0 lumens
Efficiency: N/A
Efficacy: 33.8 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49
5	73	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42
6	68	54	44	37	66	53	44	37	51	43	37	49	42	36	47	41	36
7	62	48	39	33	61	47	39	32	46	38	32	44	37	32	43	37	32
8	58	44	35	29	56	43	35	29	42	34	28	40	33	28	39	33	28
9	54	40	31	26	52	39	31	25	38	31	25	37	30	25	36	30	25
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3801
5°	3824
10°	3886
15°	3971
20°	4082
25°	4222
30°	4399
35°	4634
40°	4921
45°	5158
50°	5249
55°	5269
60°	5200
65°	4996
70°	4682
75°	4267
80°	3724
85°	2929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5269 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	2.5
10°-20°	198.8	7.4
20°-30°	323.8	12.1
30°-40°	435.9	16.3
40°-50°	511.9	19.1
50°-60°	492.4	18.4
60°-70°	381.9	14.2
70°-80°	214.4	8.0
80°-90°	56.2	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°	589.2	22.0
0°-40°	1025.2	38.2
0°-60°	2029.5	75.7
0°-90°	2682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2682.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	695	
5°	697	67
15°	702	199
25°	700	324
35°	694	436
45°	667	512
55°	553	492
65°	386	382
75°	202	214
85°	47	56
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	695.2
2.5°	696.0
5°	696.8
7.5°	699.2
10°	700.0
12.5°	700.9
15°	701.7
17.5°	701.7
20°	701.7
22.5°	700.9
25°	700.0
27.5°	698.4
30°	696.8
32.5°	696.0
35°	694.4
37.5°	692.8
40°	689.6
42.5°	683.2
45°	667.1
47.5°	644.5
50°	617.2
52.5°	585.8
55°	552.8
57.5°	515.8
60°	475.6
62.5°	432.1
65°	386.2
67.5°	341.2
70°	292.9
72.5°	247.8
75°	202.0
77.5°	157.7
80°	118.3
82.5°	80.5
85°	46.7
87.5°	20.1
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	18.35	20.07	18.72	20.39	20.70	18.35	20.07	18.72	20.39	20.70
	3H	20.18	21.74	20.55	22.06	22.42	20.18	21.74	20.55	22.06	22.42
	4H	20.84	22.31	21.23	22.66	23.03	20.84	22.31	21.23	22.66	23.03
	6H	21.30	22.67	21.71	23.03	23.42	21.30	22.67	21.71	23.03	23.42
	8H	21.44	22.75	21.86	23.14	23.53	21.44	22.75	21.86	23.14	23.53
	12H	21.53	22.78	21.96	23.16	23.59	21.53	22.78	21.96	23.16	23.59
4H	2H	19.01	20.49	19.41	20.83	21.21	19.01	20.49	19.41	20.83	21.21
	3H	21.05	22.29	21.46	22.68	23.08	21.05	22.29	21.46	22.68	23.08
	4H	21.83	22.95	22.26	23.37	23.80	21.83	22.95	22.26	23.37	23.80
	6H	22.41	23.40	22.87	23.84	24.29	22.41	23.40	22.87	23.84	24.29
	8H	22.60	23.52	23.06	23.96	24.43	22.60	23.52	23.06	23.96	24.43
	12H	22.73	23.56	23.21	24.03	24.50	22.73	23.56	23.21	24.03	24.50
8H	4H	22.14	23.06	22.60	23.51	23.97	22.14	23.06	22.60	23.51	23.97
	6H	22.84	23.61	23.33	24.09	24.57	22.84	23.61	23.33	24.09	24.57
	8H	23.09	23.78	23.60	24.29	24.77	23.09	23.78	23.60	24.29	24.77
	12H	23.28	23.90	23.79	24.38	24.94	23.28	23.90	23.79	24.38	24.94
12H	4H	22.18	23.01	22.66	23.48	23.95	22.18	23.01	22.66	23.48	23.95
	6H	22.89	23.59	23.40	24.09	24.57	22.89	23.59	23.40	24.09	24.57
	8H	23.20	23.81	23.70	24.30	24.86	23.20	23.81	23.70	24.30	24.86