

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: P866834

Luminaire Tested: PRLX-2001-L-935-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-48L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

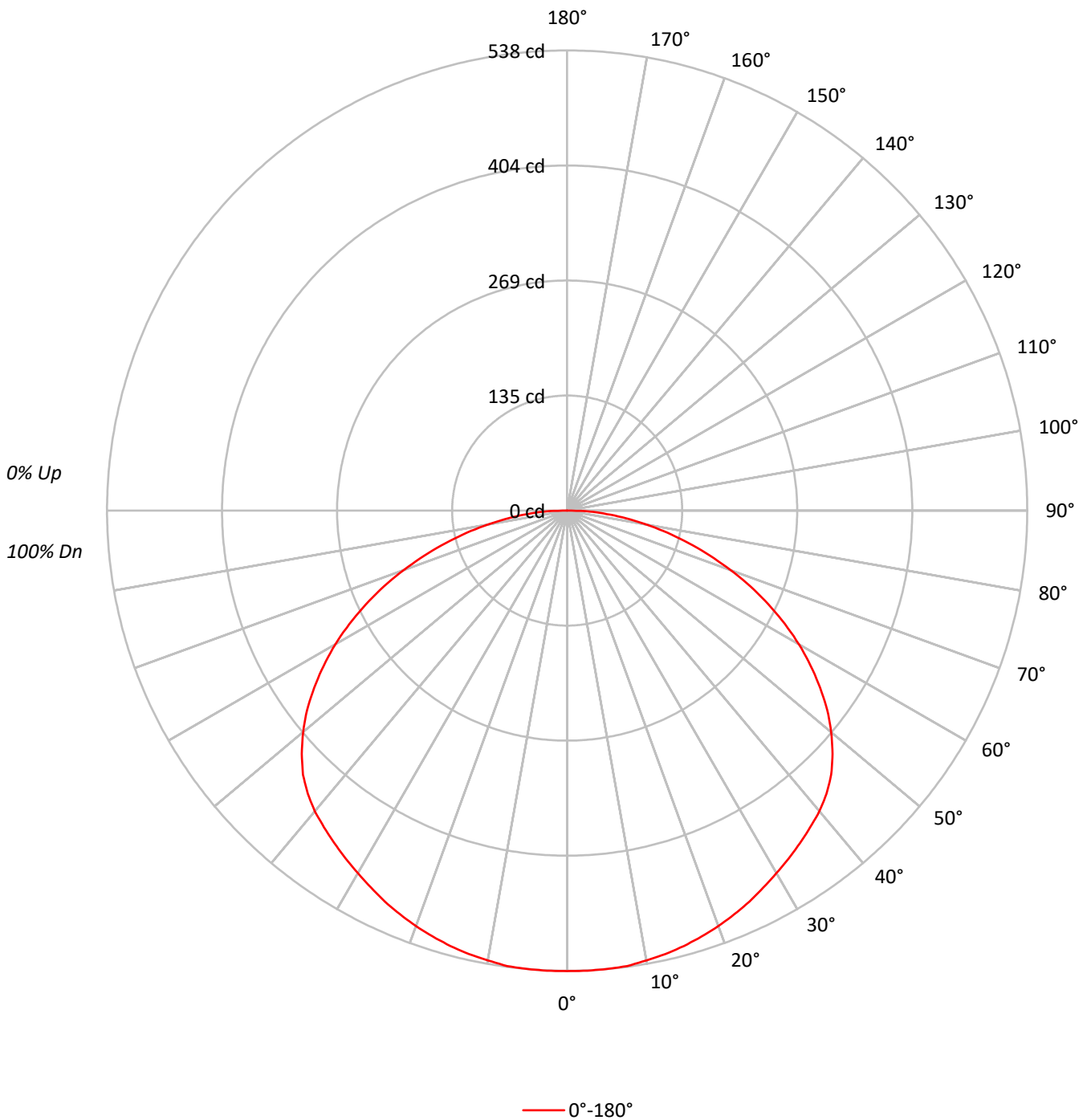
Lumens per Lamp: N/A
Luminaire Lumens: 1852.9 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	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	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		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	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2943
5°	2952
10°	2964
15°	2983
20°	3008
25°	3042
30°	3090
35°	3168
40°	3275
45°	3376
50°	3427
55°	3442
60°	3423
65°	3361
70°	3245
75°	3109
80°	2956
85°	2929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3443 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	2.8
10°-20°	149.0	8.0
20°-30°	232.8	12.6
30°-40°	297.7	16.1
40°-50°	335.8	18.1
50°-60°	322.2	17.4
60°-70°	256.7	13.9
70°-80°	155.8	8.4
80°-90°	51.6	2.8
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°	433.1	23.4
0°-40°	730.7	39.4
0°-60°	1388.7	75.0
0°-90°	1852.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1852.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	538	
5°	538	51
15°	527	149
25°	504	233
35°	475	298
45°	437	336
55°	361	322
65°	260	257
75°	147	156
85°	47	52
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	538.4
2.5°	538.4
5°	538.0
7.5°	537.1
10°	534.0
12.5°	531.0
15°	527.1
17.5°	522.2
20°	517.0
22.5°	510.9
25°	504.3
27.5°	496.9
30°	489.5
32.5°	482.1
35°	474.7
37.5°	466.8
40°	458.9
42.5°	448.9
45°	436.7
47.5°	420.9
50°	403.0
52.5°	383.4
55°	361.1
57.5°	337.5
60°	313.1
62.5°	286.9
65°	259.8
67.5°	232.3
70°	203.0
72.5°	175.1
75°	147.2
77.5°	120.1
80°	93.9
82.5°	69.4
85°	46.7
87.5°	26.6
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	16.71	18.42	17.07	18.73	19.05	16.71	18.42	17.07	18.73	19.05
	3H	18.67	20.22	19.05	20.55	20.91	18.67	20.22	19.05	20.55	20.91
	4H	19.43	20.90	19.83	21.24	21.62	19.43	20.90	19.83	21.24	21.62
	6H	20.03	21.39	20.44	21.76	22.15	20.03	21.39	20.44	21.76	22.15
	8H	20.25	21.55	20.67	21.94	22.34	20.25	21.55	20.67	21.94	22.34
	12H	20.42	21.67	20.85	22.05	22.48	20.42	21.67	20.85	22.05	22.48
4H	2H	17.40	18.87	17.80	19.21	19.59	17.40	18.87	17.80	19.21	19.59
	3H	19.58	20.82	19.99	21.22	21.62	19.58	20.82	19.99	21.22	21.62
	4H	20.48	21.60	20.91	22.02	22.45	20.48	21.60	20.91	22.02	22.45
	6H	21.22	22.21	21.67	22.65	23.10	21.22	22.21	21.67	22.65	23.10
	8H	21.49	22.42	21.95	22.86	23.33	21.49	22.42	21.95	22.86	23.33
	12H	21.73	22.56	22.20	23.04	23.50	21.73	22.56	22.20	23.04	23.50
8H	4H	20.84	21.77	21.30	22.21	22.67	20.84	21.77	21.30	22.21	22.67
	6H	21.73	22.50	22.22	22.99	23.46	21.73	22.50	22.22	22.99	23.46
	8H	22.09	22.79	22.60	23.29	23.78	22.09	22.79	22.60	23.29	23.78
	12H	22.42	23.04	22.93	23.53	24.09	22.42	23.04	22.93	23.53	24.09
12H	4H	20.90	21.73	21.37	22.21	22.67	20.90	21.73	21.37	22.21	22.67
	6H	21.81	22.51	22.31	23.01	23.49	21.81	22.51	22.31	23.01	23.49
	8H	22.25	22.86	22.75	23.35	23.91	22.25	22.86	22.75	23.35	23.91