

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: P866770

Luminaire Tested: PRLX-2001-L-930-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866770
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-930-48L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

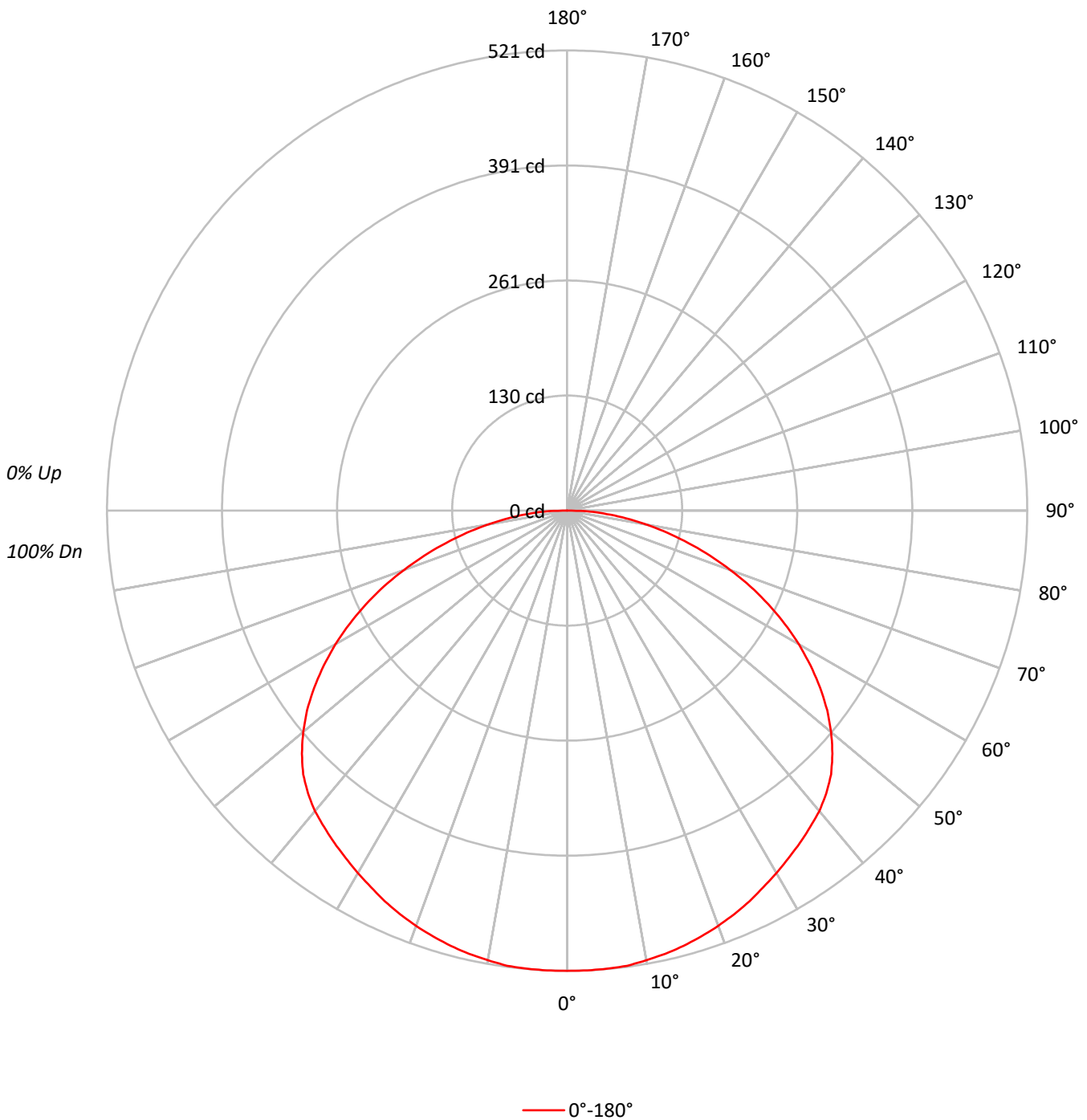
Lumens per Lamp: N/A
Luminaire Lumens: 1793.3 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (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	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°	2849
5°	2857
10°	2869
15°	2887
20°	2911
25°	2944
30°	2991
35°	3066
40°	3170
45°	3267
50°	3318
55°	3331
60°	3313
65°	3253
70°	3141
75°	3008
80°	2862
85°	2835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3333 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	2.8
10°-20°	144.2	8.0
20°-30°	225.4	12.6
30°-40°	288.1	16.1
40°-50°	325.0	18.1
50°-60°	311.9	17.4
60°-70°	248.4	13.9
70°-80°	150.8	8.4
80°-90°	50.0	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°	419.1	23.4
0°-40°	707.2	39.4
0°-60°	1344.1	75.0
0°-90°	1793.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1793.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	521	
5°	521	50
15°	510	144
25°	488	225
35°	459	288
45°	423	325
55°	350	312
65°	252	248
75°	142	151
85°	45	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	521.1
2.5°	521.1
5°	520.7
7.5°	519.8
10°	516.9
12.5°	513.9
15°	510.1
17.5°	505.4
20°	500.4
22.5°	494.5
25°	488.1
27.5°	480.9
30°	473.8
32.5°	466.6
35°	459.4
37.5°	451.8
40°	444.2
42.5°	434.4
45°	422.6
47.5°	407.4
50°	390.1
52.5°	371.1
55°	349.5
57.5°	326.7
60°	303.0
62.5°	277.7
65°	251.5
67.5°	224.8
70°	196.5
72.5°	169.5
75°	142.4
77.5°	116.2
80°	90.9
82.5°	67.2
85°	45.2
87.5°	25.8
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	16.59	18.30	16.96	18.62	18.93	16.59	18.30	16.96	18.62	18.93
	3H	18.56	20.11	18.93	20.44	20.79	18.56	20.11	18.93	20.44	20.79
	4H	19.32	20.78	19.71	21.13	21.50	19.32	20.78	19.71	21.13	21.50
	6H	19.91	21.28	20.32	21.64	22.03	19.91	21.28	20.32	21.64	22.03
	8H	20.13	21.44	20.55	21.83	22.22	20.13	21.44	20.55	21.83	22.22
	12H	20.30	21.56	20.73	21.94	22.37	20.30	21.56	20.73	21.94	22.37
4H	2H	17.29	18.76	17.68	19.10	19.48	17.29	18.76	17.68	19.10	19.48
	3H	19.47	20.71	19.88	21.10	21.50	19.47	20.71	19.88	21.10	21.50
	4H	20.36	21.49	20.79	21.90	22.34	20.36	21.49	20.79	21.90	22.34
	6H	21.10	22.09	21.56	22.53	22.98	21.10	22.09	21.56	22.53	22.98
	8H	21.38	22.31	21.84	22.75	23.21	21.38	22.31	21.84	22.75	23.21
	12H	21.61	22.45	22.09	22.92	23.39	21.61	22.45	22.09	22.92	23.39
8H	4H	20.73	21.66	21.19	22.10	22.56	20.73	21.66	21.19	22.10	22.56
	6H	21.61	22.39	22.10	22.87	23.35	21.61	22.39	22.10	22.87	23.35
	8H	21.98	22.68	22.48	23.18	23.66	21.98	22.68	22.48	23.18	23.66
	12H	22.31	22.93	22.81	23.42	23.97	22.31	22.93	22.81	23.42	23.97
12H	4H	20.78	21.62	21.26	22.09	22.56	20.78	21.62	21.26	22.09	22.56
	6H	21.69	22.39	22.20	22.90	23.38	21.69	22.39	22.20	22.90	23.38
	8H	22.13	22.75	22.64	23.24	23.80	22.13	22.75	22.64	23.24	23.80