

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: P866762

Luminaire Tested: PRLX-2001-L-930-32L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866762
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-930-32L-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 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

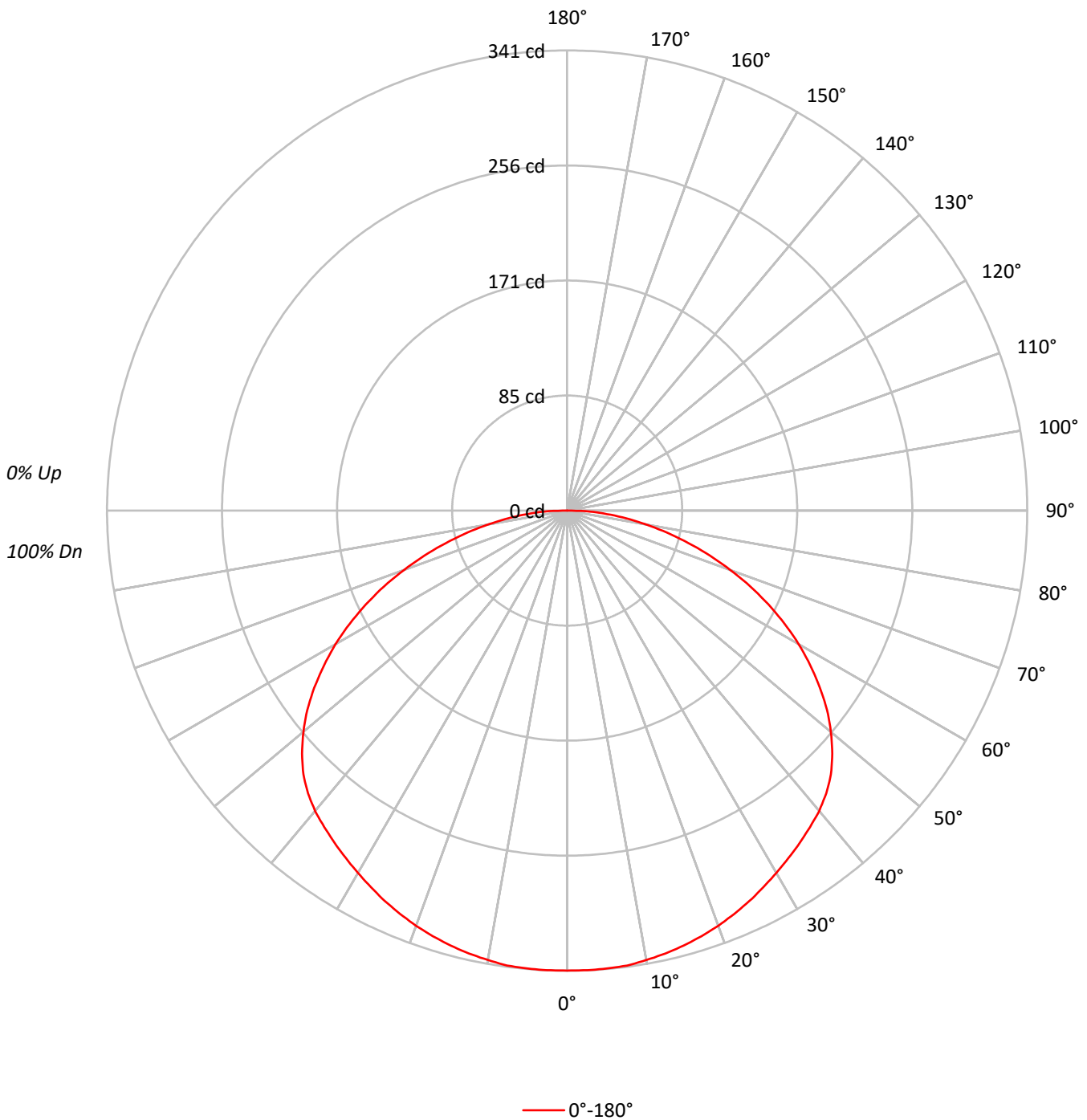
Lumens per Lamp: N/A
Luminaire Lumens: 1173.3 lumens
Efficiency: N/A
Efficacy: 45.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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	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°	1864
5°	1869
10°	1877
15°	1889
20°	1905
25°	1927
30°	1957
35°	2006
40°	2074
45°	2138
50°	2170
55°	2180
60°	2168
65°	2128
70°	2056
75°	1969
80°	1870
85°	1857

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	2.8
10°-20°	94.3	8.0
20°-30°	147.5	12.6
30°-40°	188.5	16.1
40°-50°	212.6	18.1
50°-60°	204.0	17.4
60°-70°	162.5	13.9
70°-80°	98.7	8.4
80°-90°	32.7	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°	274.2	23.4
0°-40°	462.7	39.4
0°-60°	879.4	74.9
0°-90°	1173.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	341	
5°	341	32
15°	334	94
25°	319	147
35°	301	189
45°	276	213
55°	229	204
65°	164	163
75°	93	99
85°	30	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	340.9
2.5°	340.9
5°	340.6
7.5°	340.1
10°	338.2
12.5°	336.2
15°	333.7
17.5°	330.7
20°	327.4
22.5°	323.5
25°	319.4
27.5°	314.7
30°	310.0
32.5°	305.3
35°	300.6
37.5°	295.6
40°	290.6
42.5°	284.2
45°	276.5
47.5°	266.5
50°	255.2
52.5°	242.8
55°	228.7
57.5°	213.7
60°	198.3
62.5°	181.7
65°	164.5
67.5°	147.1
70°	128.6
72.5°	110.9
75°	93.2
77.5°	76.0
80°	59.4
82.5°	44.0
85°	29.6
87.5°	16.9
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	15.12	16.83	15.48	17.14	17.46	15.12	16.83	15.48	17.14	17.46
	3H	17.08	18.64	17.46	18.96	19.32	17.08	18.64	17.46	18.96	19.32
	4H	17.84	19.31	18.24	19.66	20.03	17.84	19.31	18.24	19.66	20.03
	6H	18.44	19.81	18.85	20.17	20.56	18.44	19.81	18.85	20.17	20.56
	8H	18.66	19.96	19.08	20.35	20.75	18.66	19.96	19.08	20.35	20.75
	12H	18.83	20.08	19.26	20.46	20.89	18.83	20.08	19.26	20.46	20.89
4H	2H	15.81	17.28	16.21	17.63	18.00	15.81	17.28	16.21	17.63	18.00
	3H	17.99	19.23	18.40	19.63	20.03	17.99	19.23	18.40	19.63	20.03
	4H	18.89	20.02	19.32	20.43	20.86	18.89	20.02	19.32	20.43	20.86
	6H	19.63	20.62	20.08	21.06	21.51	19.63	20.62	20.08	21.06	21.51
	8H	19.91	20.83	20.36	21.28	21.74	19.91	20.83	20.36	21.28	21.74
	12H	20.14	20.98	20.62	21.45	21.92	20.14	20.98	20.62	21.45	21.92
8H	4H	19.26	20.18	19.71	20.62	21.09	19.26	20.18	19.71	20.62	21.09
	6H	20.14	20.91	20.63	21.40	21.87	20.14	20.91	20.63	21.40	21.87
	8H	20.50	21.20	21.01	21.71	22.19	20.50	21.20	21.01	21.71	22.19
	12H	20.84	21.45	21.34	21.94	22.50	20.84	21.45	21.34	21.94	22.50
12H	4H	19.31	20.15	19.79	20.62	21.09	19.31	20.15	19.79	20.62	21.09
	6H	20.22	20.92	20.72	21.42	21.91	20.22	20.92	20.72	21.42	21.91
	8H	20.66	21.28	21.16	21.76	22.32	20.66	21.28	21.16	21.76	22.32