

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: P867018

Luminaire Tested: PRLX-2002-L-930-32L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-32L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

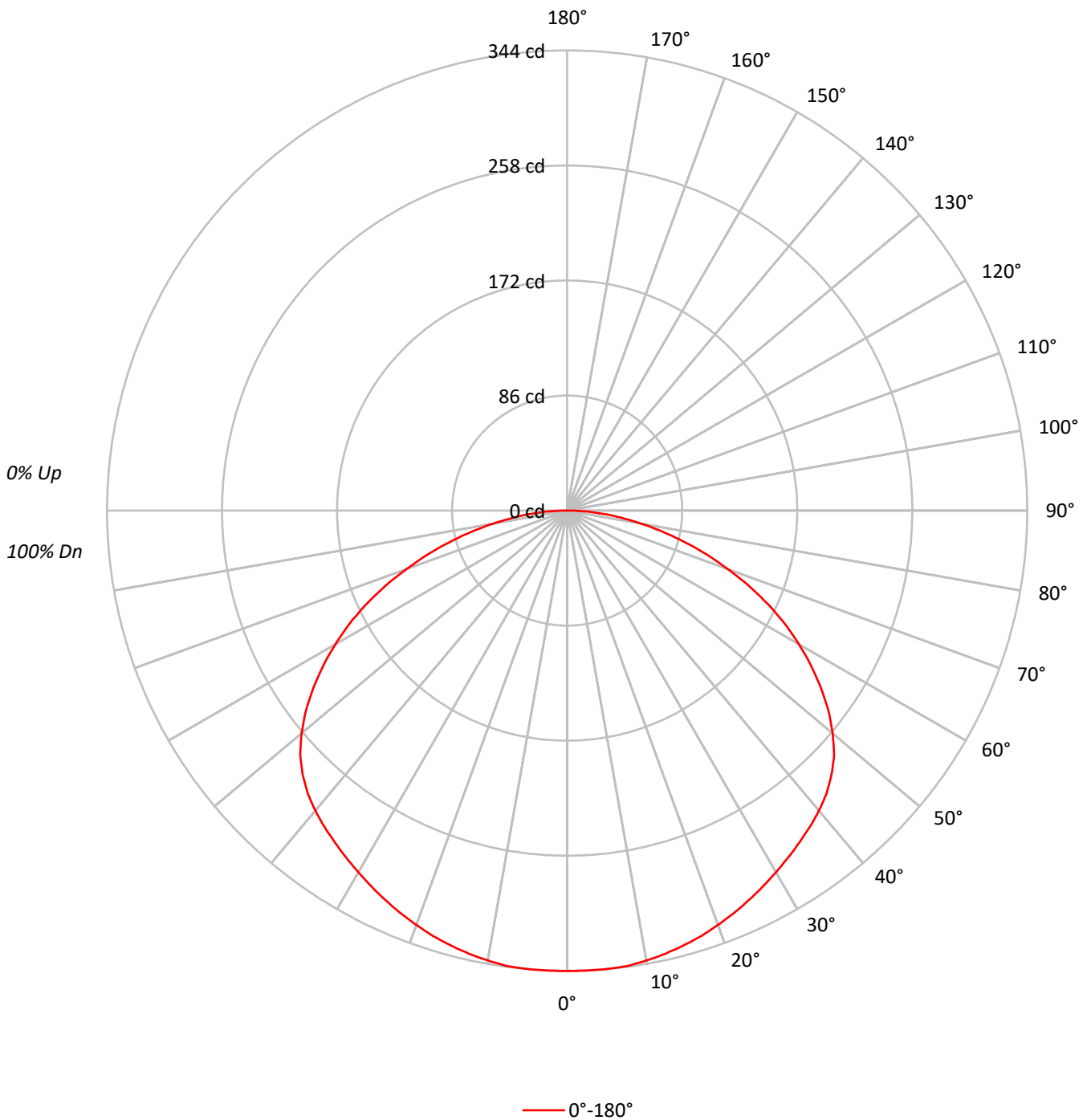
Lumens per Lamp: N/A
Luminaire Lumens: 1177.3 lumens
Efficiency: N/A
Efficacy: 45.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	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		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	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	29	24		35	28	23		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1698
5°	1704
10°	1711
15°	1719
20°	1731
25°	1749
30°	1779
35°	1824
40°	1886
45°	1950
50°	1989
55°	1993
60°	1975
65°	1933
70°	1842
75°	1735
80°	1594
85°	1472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1997 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	2.8
10°-20°	95.1	8.1
20°-30°	148.4	12.6
30°-40°	189.9	16.1
40°-50°	215.2	18.3
50°-60°	206.8	17.6
60°-70°	163.4	13.9
70°-80°	96.4	8.2
80°-90°	29.3	2.5
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°	276.3	23.5
0°-40°	466.3	39.6
0°-60°	888.2	75.4
0°-90°	1177.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	344	
5°	344	33
15°	336	95
25°	321	148
35°	303	190
45°	280	215
55°	232	207
65°	166	163
75°	91	96
85°	26	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	344.2
2.5°	344.2
5°	344.0
7.5°	343.4
10°	341.5
12.5°	339.3
15°	336.5
17.5°	333.5
20°	329.6
22.5°	325.7
25°	321.3
27.5°	316.9
30°	312.2
32.5°	307.5
35°	302.8
37.5°	298.1
40°	292.8
42.5°	287.0
45°	279.5
47.5°	270.7
50°	259.1
52.5°	246.4
55°	231.7
57.5°	216.5
60°	200.2
62.5°	183.6
65°	165.6
67.5°	147.1
70°	127.7
72.5°	109.5
75°	91.0
77.5°	73.0
80°	56.1
82.5°	40.4
85°	26.0
87.5°	13.3
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	14.84	16.55	15.21	16.87	17.18	14.84	16.55	15.21	16.87	17.18
	3H	16.76	18.31	17.14	18.63	18.99	16.76	18.31	17.14	18.63	18.99
	4H	17.48	18.95	17.88	19.29	19.67	17.48	18.95	17.88	19.29	19.67
	6H	18.03	19.39	18.44	19.75	20.14	18.03	19.39	18.44	19.75	20.14
	8H	18.21	19.52	18.64	19.90	20.30	18.21	19.52	18.64	19.90	20.30
	12H	18.35	19.60	18.78	19.98	20.41	18.35	19.60	18.78	19.98	20.41
4H	2H	15.53	16.99	15.93	17.34	17.71	15.53	16.99	15.93	17.34	17.71
	3H	17.66	18.89	18.07	19.29	19.69	17.66	18.89	18.07	19.29	19.69
	4H	18.51	19.63	18.94	20.04	20.48	18.51	19.63	18.94	20.04	20.48
	6H	19.19	20.17	19.64	20.61	21.07	19.19	20.17	19.64	20.61	21.07
	8H	19.43	20.35	19.89	20.79	21.26	19.43	20.35	19.89	20.79	21.26
	12H	19.62	20.45	20.10	20.93	21.39	19.62	20.45	20.10	20.93	21.39
8H	4H	18.86	19.78	19.31	20.22	20.68	18.86	19.78	19.31	20.22	20.68
	6H	19.67	20.44	20.16	20.92	21.39	19.67	20.44	20.16	20.92	21.39
	8H	19.99	20.68	20.49	21.18	21.67	19.99	20.68	20.49	21.18	21.67
	12H	20.27	20.88	20.77	21.37	21.92	20.27	20.88	20.77	21.37	21.92
12H	4H	18.90	19.73	19.38	20.21	20.67	18.90	19.73	19.38	20.21	20.67
	6H	19.74	20.43	20.24	20.93	21.42	19.74	20.43	20.24	20.93	21.42
	8H	20.12	20.74	20.63	21.23	21.78	20.12	20.74	20.63	21.23	21.78