

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: P867074

Luminaire Tested: PRLX-2002-L-935-15L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867074
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-935-15L-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 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

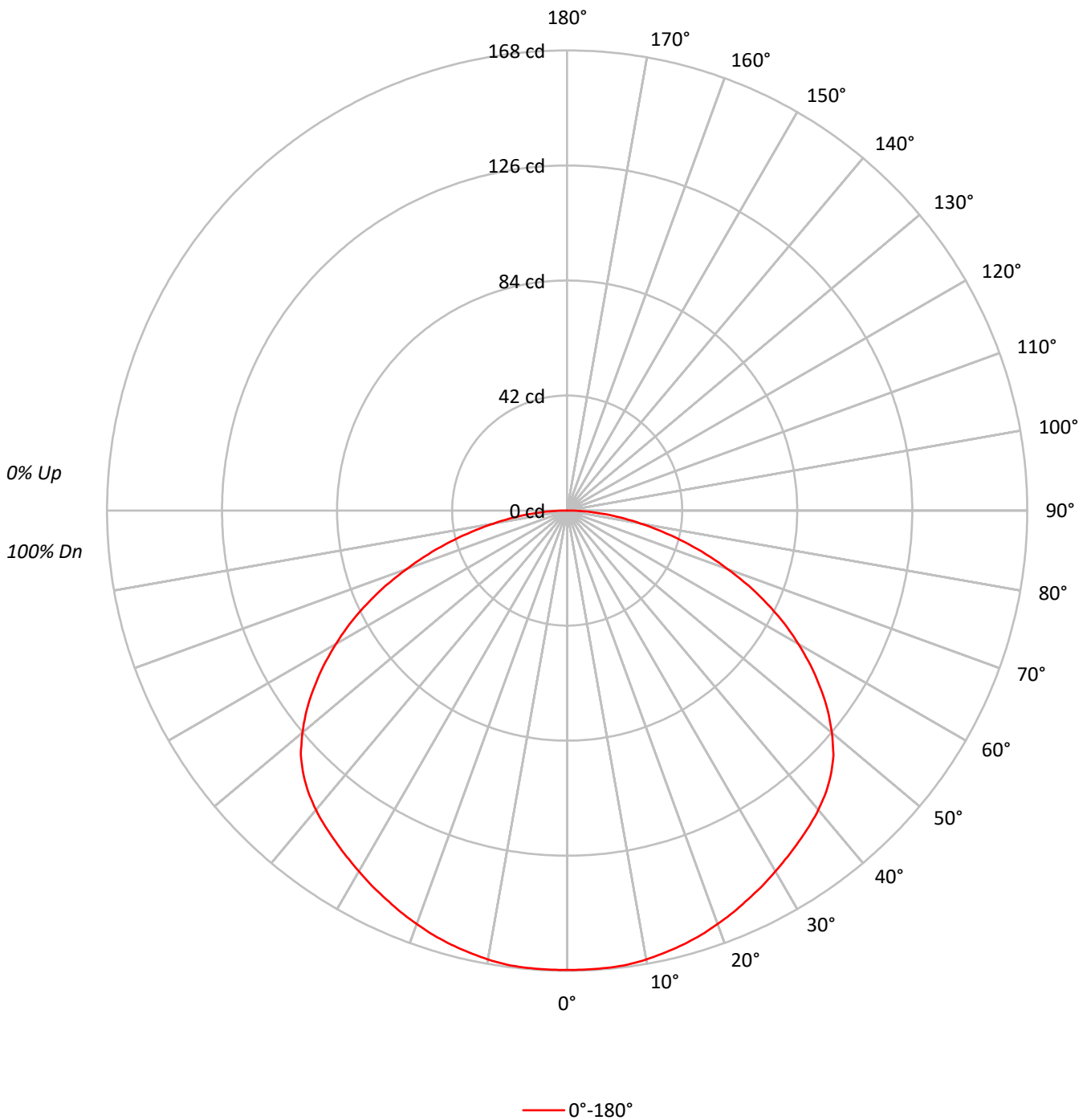
Lumens per Lamp: N/A
Luminaire Lumens: 573.6 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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°	827
5°	830
10°	834
15°	838
20°	843
25°	852
30°	867
35°	888
40°	919
45°	950
50°	969
55°	971
60°	962
65°	942
70°	897
75°	844
80°	776
85°	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 973 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	2.8
10°-20°	46.4	8.1
20°-30°	72.3	12.6
30°-40°	92.5	16.1
40°-50°	104.8	18.3
50°-60°	100.7	17.6
60°-70°	79.6	13.9
70°-80°	46.9	8.2
80°-90°	14.3	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°	134.6	23.5
0°-40°	227.2	39.6
0°-60°	432.7	75.4
0°-90°	573.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	168	
5°	168	16
15°	164	46
25°	156	72
35°	148	93
45°	136	105
55°	113	101
65°	81	80
75°	44	47
85°	13	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	167.7
2.5°	167.7
5°	167.6
7.5°	167.3
10°	166.4
12.5°	165.3
15°	164.0
17.5°	162.5
20°	160.6
22.5°	158.7
25°	156.5
27.5°	154.4
30°	152.1
32.5°	149.8
35°	147.5
37.5°	145.2
40°	142.7
42.5°	139.8
45°	136.2
47.5°	131.9
50°	126.2
52.5°	120.0
55°	112.9
57.5°	105.5
60°	97.5
62.5°	89.5
65°	80.7
67.5°	71.7
70°	62.2
72.5°	53.3
75°	44.3
77.5°	35.6
80°	27.3
82.5°	19.7
85°	12.7
87.5°	6.5
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	12.35	14.05	12.71	14.37	14.68	12.35	14.05	12.71	14.37	14.68
	3H	14.26	15.81	14.64	16.14	16.50	14.26	15.81	14.64	16.14	16.50
	4H	14.98	16.45	15.38	16.79	17.17	14.98	16.45	15.38	16.79	17.17
	6H	15.53	16.89	15.94	17.25	17.64	15.53	16.89	15.94	17.25	17.64
	8H	15.72	17.02	16.14	17.41	17.80	15.72	17.02	16.14	17.41	17.80
	12H	15.86	17.10	16.28	17.48	17.91	15.86	17.10	16.28	17.48	17.91
4H	2H	13.03	14.50	13.43	14.84	15.22	13.03	14.50	13.43	14.84	15.22
	3H	15.16	16.40	15.57	16.79	17.19	15.16	16.40	15.57	16.79	17.19
	4H	16.01	17.13	16.44	17.55	17.98	16.01	17.13	16.44	17.55	17.98
	6H	16.69	17.68	17.14	18.11	18.57	16.69	17.68	17.14	18.11	18.57
	8H	16.93	17.85	17.39	18.30	18.76	16.93	17.85	17.39	18.30	18.76
	12H	17.12	17.96	17.60	18.43	18.90	17.12	17.96	17.60	18.43	18.90
8H	4H	16.36	17.28	16.82	17.72	18.18	16.36	17.28	16.82	17.72	18.18
	6H	17.17	17.94	17.66	18.42	18.90	17.17	17.94	17.66	18.42	18.90
	8H	17.49	18.18	18.00	18.69	19.17	17.49	18.18	18.00	18.69	19.17
	12H	17.77	18.38	18.27	18.87	19.43	17.77	18.38	18.27	18.87	19.43
12H	4H	16.40	17.23	16.88	17.71	18.18	16.40	17.23	16.88	17.71	18.18
	6H	17.24	17.93	17.74	18.43	18.92	17.24	17.93	17.74	18.43	18.92
	8H	17.63	18.24	18.13	18.73	19.28	17.63	18.24	18.13	18.73	19.28