

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: P866818

Luminaire Tested: PRLX-2001-L-935-15L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866818
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-935-15L-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 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

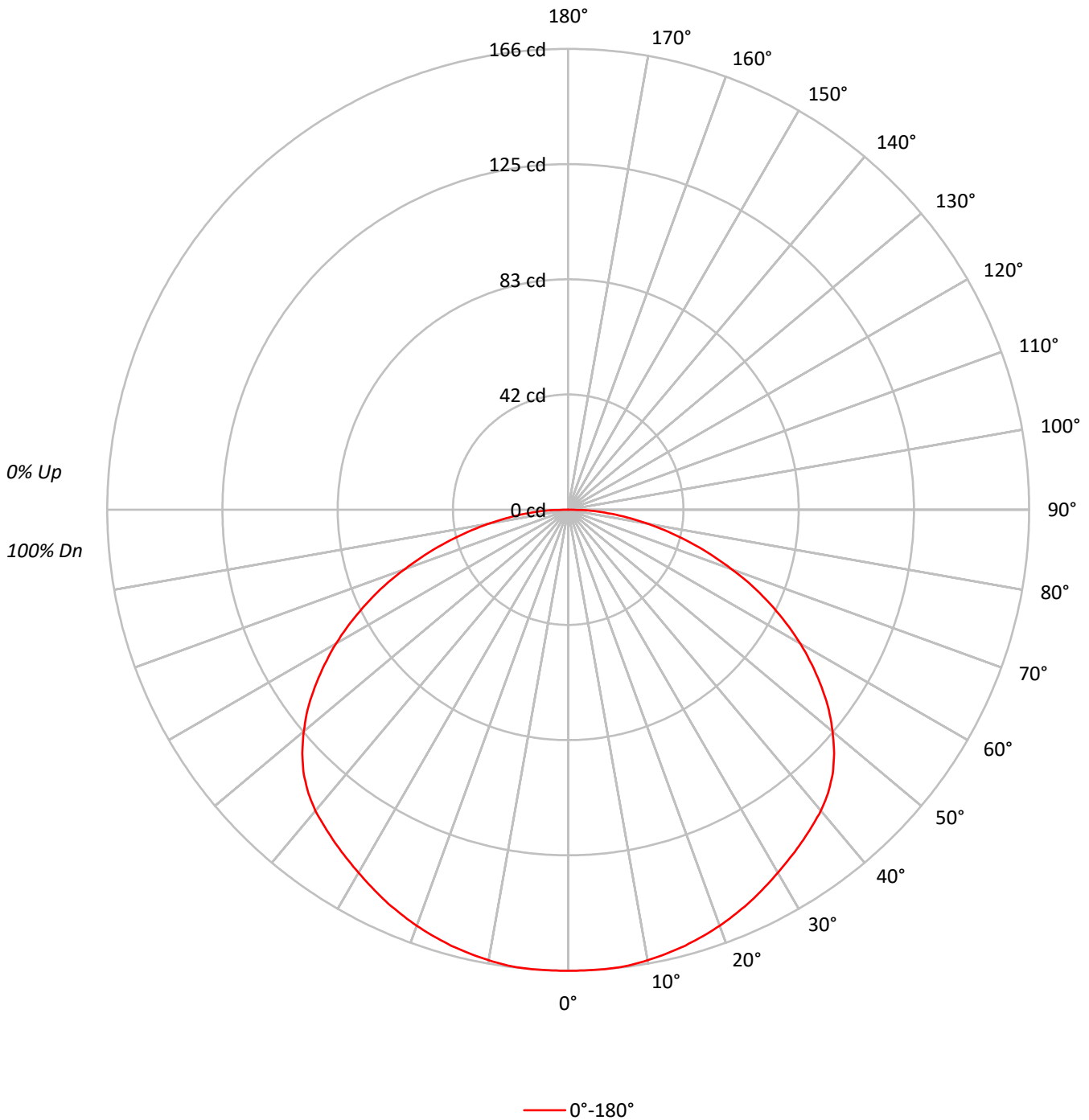
Lumens per Lamp: N/A
Luminaire Lumens: 571.6 lumens
Efficiency: N/A
Efficacy: 34.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	908
5°	911
10°	915
15°	920
20°	928
25°	939
30°	953
35°	977
40°	1011
45°	1041
50°	1057
55°	1062
60°	1056
65°	1037
70°	1001
75°	959
80°	913
85°	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1062 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	2.8
10°-20°	46.0	8.0
20°-30°	71.8	12.6
30°-40°	91.8	16.1
40°-50°	103.6	18.1
50°-60°	99.4	17.4
60°-70°	79.2	13.9
70°-80°	48.1	8.4
80°-90°	15.9	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°	133.6	23.4
0°-40°	225.4	39.4
0°-60°	428.4	75.0
0°-90°	571.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	571.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	166	
5°	166	16
15°	163	46
25°	156	72
35°	146	92
45°	135	104
55°	111	99
65°	80	79
75°	45	48
85°	14	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	166.1
2.5°	166.1
5°	166.0
7.5°	165.7
10°	164.8
12.5°	163.8
15°	162.6
17.5°	161.1
20°	159.5
22.5°	157.6
25°	155.6
27.5°	153.3
30°	151.0
32.5°	148.7
35°	146.4
37.5°	144.0
40°	141.6
42.5°	138.5
45°	134.7
47.5°	129.9
50°	124.3
52.5°	118.3
55°	111.4
57.5°	104.1
60°	96.6
62.5°	88.5
65°	80.2
67.5°	71.7
70°	62.6
72.5°	54.0
75°	45.4
77.5°	37.0
80°	29.0
82.5°	21.4
85°	14.4
87.5°	8.2
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	12.62	14.33	12.98	14.65	14.96	12.62	14.33	12.98	14.65	14.96
	3H	14.58	16.14	14.96	16.46	16.82	14.58	16.14	14.96	16.46	16.82
	4H	15.34	16.81	15.74	17.16	17.53	15.34	16.81	15.74	17.16	17.53
	6H	15.94	17.31	16.35	17.67	18.06	15.94	17.31	16.35	17.67	18.06
	8H	16.16	17.47	16.58	17.85	18.25	16.16	17.47	16.58	17.85	18.25
	12H	16.33	17.58	16.76	17.97	18.39	16.33	17.58	16.76	17.97	18.39
4H	2H	13.31	14.78	13.71	15.13	15.50	13.31	14.78	13.71	15.13	15.50
	3H	15.49	16.74	15.90	17.13	17.53	15.49	16.74	15.90	17.13	17.53
	4H	16.39	17.52	16.82	17.93	18.36	16.39	17.52	16.82	17.93	18.36
	6H	17.13	18.12	17.58	18.56	19.01	17.13	18.12	17.58	18.56	19.01
	8H	17.41	18.34	17.87	18.78	19.24	17.41	18.34	17.87	18.78	19.24
	12H	17.64	18.48	18.12	18.95	19.42	17.64	18.48	18.12	18.95	19.42
8H	4H	16.76	17.68	17.21	18.12	18.59	16.76	17.68	17.21	18.12	18.59
	6H	17.64	18.42	18.13	18.90	19.37	17.64	18.42	18.13	18.90	19.37
	8H	18.01	18.70	18.51	19.21	19.69	18.01	18.70	18.51	19.21	19.69
	12H	18.34	18.95	18.84	19.44	20.00	18.34	18.95	18.84	19.44	20.00
12H	4H	16.81	17.65	17.29	18.12	18.59	16.81	17.65	17.29	18.12	18.59
	6H	17.72	18.42	18.23	18.92	19.41	17.72	18.42	18.23	18.92	19.41
	8H	18.16	18.78	18.66	19.27	19.82	18.16	18.78	18.66	19.27	19.82