

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: P866942

Luminaire Tested: PRLX-2002-L-927-15L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-927-15L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

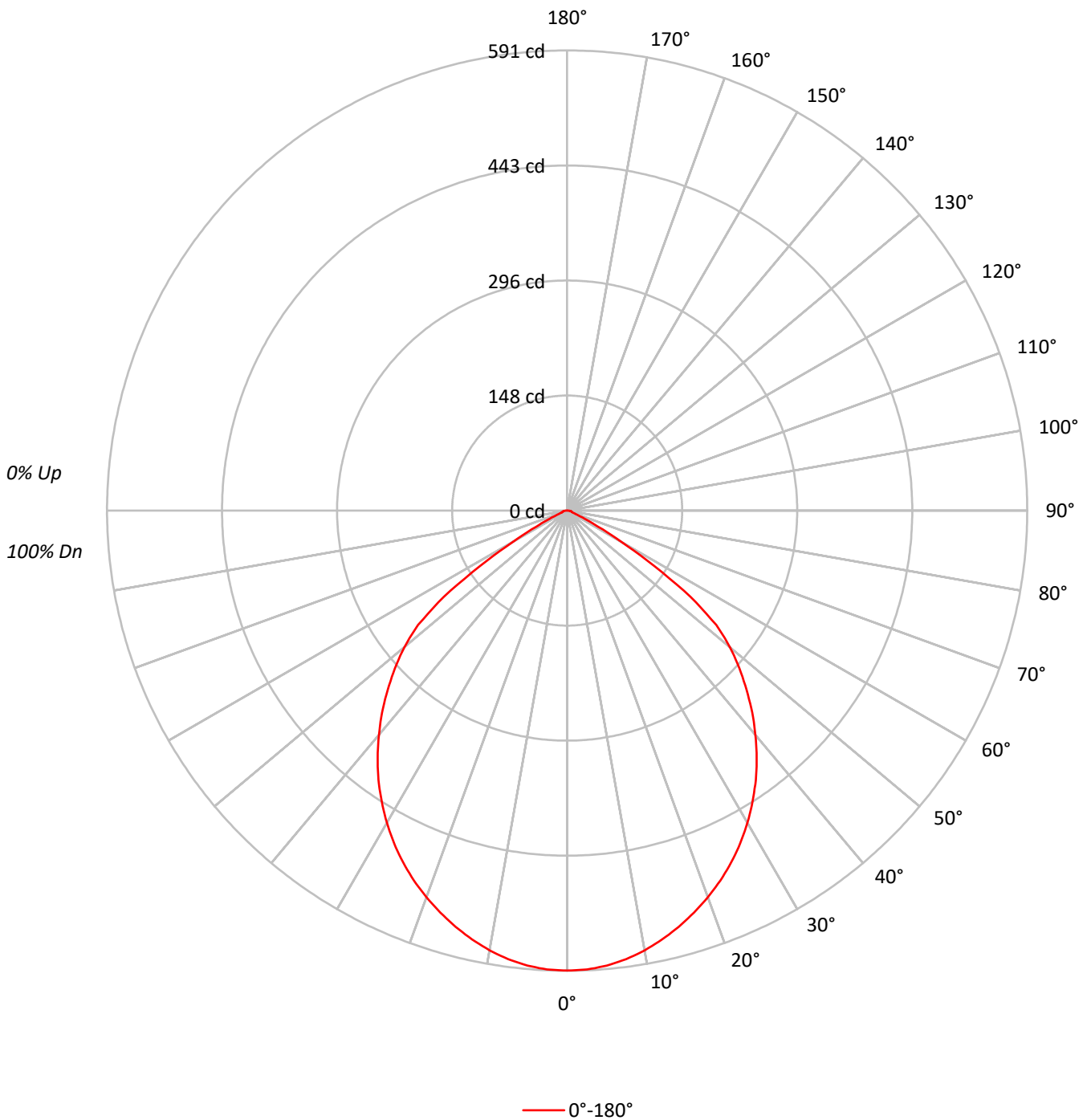
Lumens per Lamp: N/A
Luminaire Lumens: 1160.8 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2914
5°	2905
10°	2873
15°	2827
20°	2775
25°	2714
30°	2638
35°	2545
40°	2423
45°	2274
50°	2095
55°	1665
60°	784
65°	283
70°	110
75°	120
80°	139
85°	164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2274 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	4.8
10°-20°	156.0	13.4
20°-30°	229.4	19.8
30°-40°	263.6	22.7
40°-50°	251.1	21.6
50°-60°	165.1	14.2
60°-70°	30.5	2.6
70°-80°	6.6	0.6
80°-90°	3.0	0.3
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°	441.0	38.0
0°-40°	704.6	60.7
0°-60°	1120.7	96.5
0°-90°	1160.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	591	
5°	587	56
15°	554	156
25°	499	229
35°	422	264
45°	326	251
55°	194	165
65°	24	30
75°	6	7
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	590.7
2.5°	590.0
5°	586.6
7.5°	581.1
10°	573.5
12.5°	564.1
15°	553.5
17.5°	541.5
20°	528.6
22.5°	514.2
25°	498.6
27.5°	481.6
30°	463.1
32.5°	443.2
35°	422.5
37.5°	399.8
40°	376.2
42.5°	351.9
45°	325.9
47.5°	300.0
50°	273.0
52.5°	241.3
55°	193.6
57.5°	132.7
60°	79.5
62.5°	44.7
65°	24.2
67.5°	12.2
70°	7.6
72.5°	6.9
75°	6.3
77.5°	5.7
80°	4.9
82.5°	4.0
85°	2.9
87.5°	1.6
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	11.71	13.11	12.07	13.42	13.74	11.71	13.11	12.07	13.42	13.74
	3H	11.63	12.86	12.01	13.19	13.55	11.63	12.86	12.01	13.19	13.55
	4H	11.58	12.72	11.98	13.07	13.46	11.58	12.72	11.98	13.07	13.46
	6H	11.53	12.58	11.94	12.95	13.34	11.53	12.58	11.94	12.95	13.34
	8H	11.50	12.50	11.93	12.89	13.30	11.50	12.50	11.93	12.89	13.30
	12H	11.48	12.43	11.91	12.81	13.24	11.48	12.43	11.91	12.81	13.24
4H	2H	11.58	12.73	11.98	13.08	13.46	11.58	12.73	11.98	13.08	13.46
	3H	11.51	12.44	11.93	12.84	13.25	11.51	12.44	11.93	12.84	13.25
	4H	11.46	12.28	11.90	12.70	13.15	11.46	12.28	11.90	12.70	13.15
	6H	11.43	12.14	11.89	12.59	13.05	11.43	12.14	11.89	12.59	13.05
	8H	11.40	12.07	11.87	12.51	12.98	11.40	12.07	11.87	12.51	12.98
	12H	11.38	11.97	11.87	12.45	12.93	11.38	11.97	11.87	12.45	12.93
8H	4H	11.35	12.01	11.82	12.46	12.93	11.35	12.01	11.82	12.46	12.93
	6H	11.31	11.86	11.81	12.35	12.83	11.31	11.86	11.81	12.35	12.83
	8H	11.29	11.78	11.81	12.30	12.79	11.29	11.78	11.81	12.30	12.79
	12H	11.28	11.73	11.80	12.22	12.79	11.28	11.73	11.80	12.22	12.79
12H	4H	11.31	11.90	11.79	12.38	12.85	11.31	11.90	11.79	12.38	12.85
	6H	11.26	11.75	11.78	12.27	12.76	11.26	11.75	11.78	12.27	12.76
	8H	11.26	11.70	11.77	12.20	12.77	11.26	11.70	11.77	12.20	12.77