

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: P866946

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866946
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-927-15L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

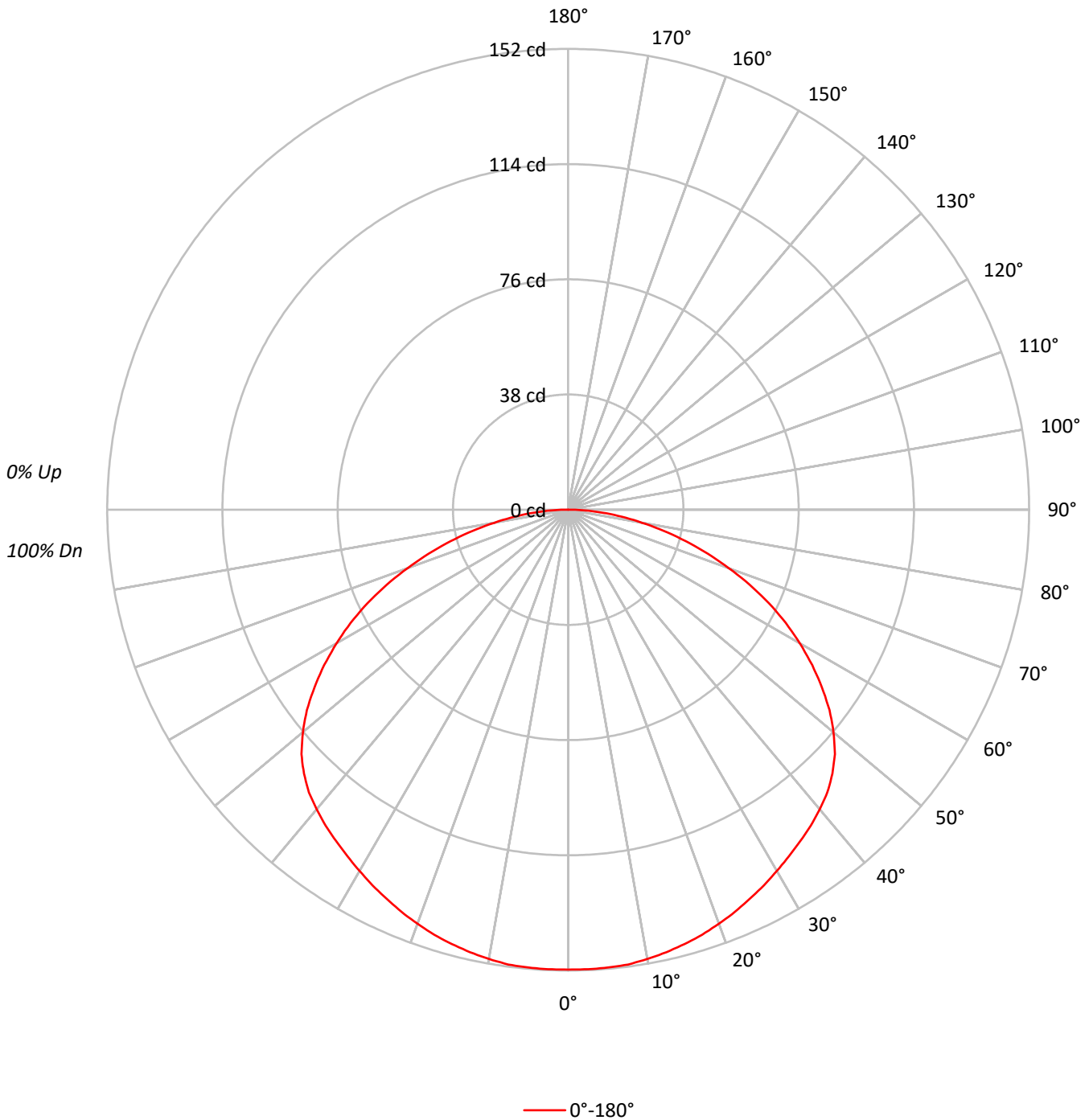
Lumens per Lamp: N/A
Luminaire Lumens: 518.9 lumens
Efficiency: N/A
Efficacy: 31.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): 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	34	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°	748
5°	751
10°	754
15°	757
20°	763
25°	771
30°	784
35°	803
40°	831
45°	860
50°	877
55°	878
60°	870
65°	852
70°	812
75°	764
80°	702
85°	651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 880 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	2.8
10°-20°	41.9	8.1
20°-30°	65.4	12.6
30°-40°	83.7	16.1
40°-50°	94.8	18.3
50°-60°	91.1	17.6
60°-70°	72.0	13.9
70°-80°	42.5	8.2
80°-90°	12.9	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°	121.8	23.5
0°-40°	205.5	39.6
0°-60°	391.5	75.4
0°-90°	518.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	152	
5°	152	14
15°	148	42
25°	142	65
35°	133	84
45°	123	95
55°	102	91
65°	73	72
75°	40	42
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	151.7
2.5°	151.7
5°	151.6
7.5°	151.3
10°	150.5
12.5°	149.5
15°	148.3
17.5°	147.0
20°	145.3
22.5°	143.6
25°	141.6
27.5°	139.7
30°	137.6
32.5°	135.5
35°	133.4
37.5°	131.4
40°	129.0
42.5°	126.5
45°	123.2
47.5°	119.3
50°	114.2
52.5°	108.6
55°	102.1
57.5°	95.4
60°	88.2
62.5°	80.9
65°	73.0
67.5°	64.8
70°	56.3
72.5°	48.3
75°	40.1
77.5°	32.2
80°	24.7
82.5°	17.8
85°	11.5
87.5°	5.8
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	12.00	13.70	12.36	14.02	14.33	12.00	13.70	12.36	14.02	14.33
	3H	13.91	15.46	14.29	15.79	16.15	13.91	15.46	14.29	15.79	16.15
	4H	14.64	16.10	15.03	16.45	16.82	14.64	16.10	15.03	16.45	16.82
	6H	15.18	16.54	15.59	16.90	17.29	15.18	16.54	15.59	16.90	17.29
	8H	15.37	16.67	15.79	17.06	17.45	15.37	16.67	15.79	17.06	17.45
	12H	15.51	16.75	15.93	17.14	17.56	15.51	16.75	15.93	17.14	17.56
4H	2H	12.68	14.15	13.08	14.49	14.87	12.68	14.15	13.08	14.49	14.87
	3H	14.81	16.05	15.22	16.44	16.84	14.81	16.05	15.22	16.44	16.84
	4H	15.67	16.79	16.10	17.20	17.63	15.67	16.79	16.10	17.20	17.63
	6H	16.34	17.33	16.80	17.77	18.22	16.34	17.33	16.80	17.77	18.22
	8H	16.59	17.51	17.04	17.95	18.41	16.59	17.51	17.04	17.95	18.41
	12H	16.78	17.61	17.25	18.08	18.55	16.78	17.61	17.25	18.08	18.55
8H	4H	16.01	16.93	16.47	17.37	17.84	16.01	16.93	16.47	17.37	17.84
	6H	16.82	17.59	17.31	18.08	18.55	16.82	17.59	17.31	18.08	18.55
	8H	17.14	17.83	17.65	18.34	18.82	17.14	17.83	17.65	18.34	18.82
	12H	17.42	18.03	17.92	18.52	19.08	17.42	18.03	17.92	18.52	19.08
12H	4H	16.06	16.89	16.53	17.36	17.83	16.06	16.89	16.53	17.36	17.83
	6H	16.89	17.58	17.40	18.09	18.57	16.89	17.58	17.40	18.09	18.57
	8H	17.28	17.89	17.78	18.38	18.94	17.28	17.89	17.78	18.38	18.94