

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: P866706

Luminaire Tested: PRLX-2001-L-927-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866706
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-927-48L-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 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

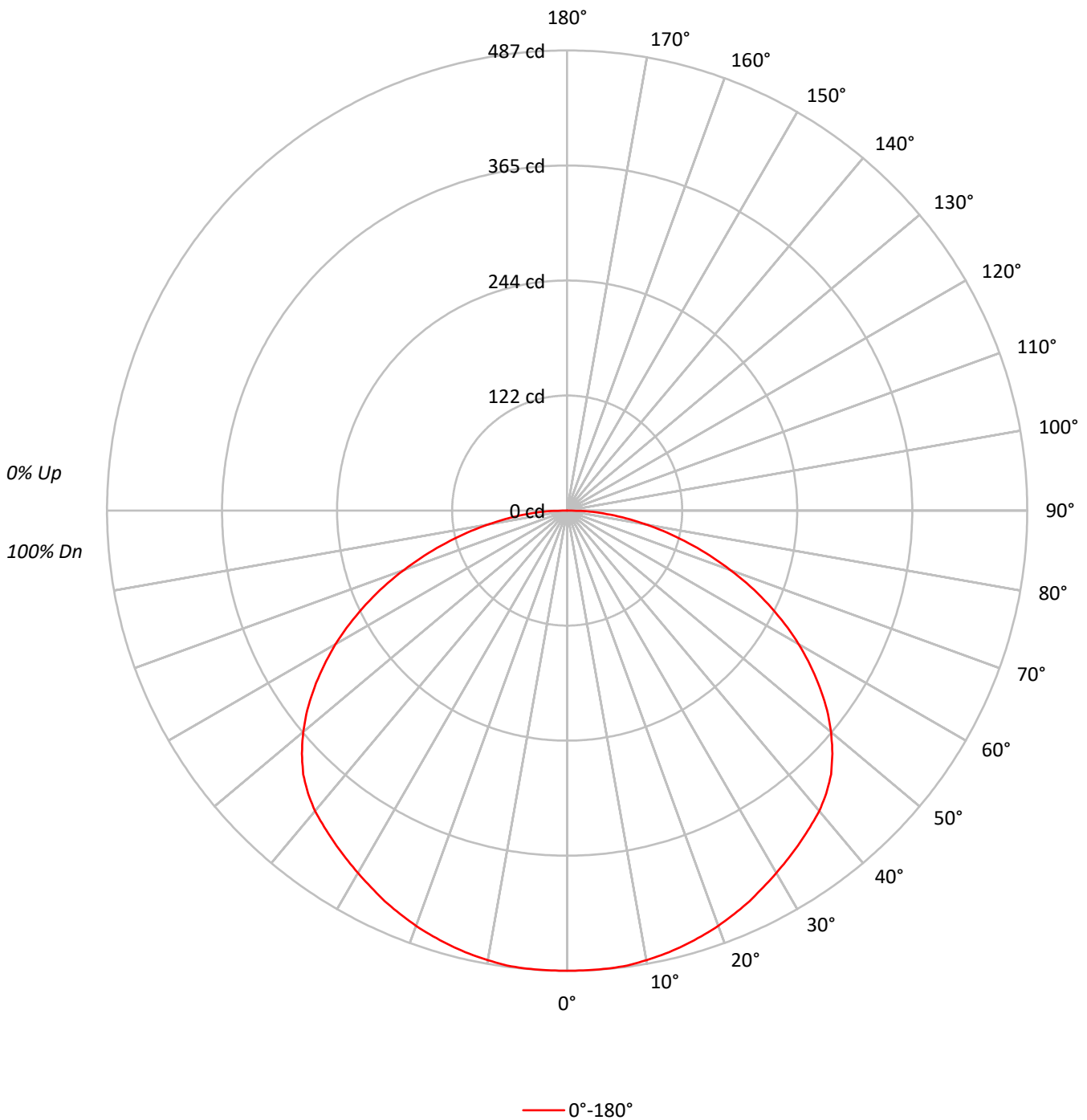
Lumens per Lamp: N/A
Luminaire Lumens: 1676.0 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	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°	2662
5°	2670
10°	2682
15°	2698
20°	2721
25°	2752
30°	2795
35°	2865
40°	2962
45°	3054
50°	3101
55°	3113
60°	3096
65°	3040
70°	2936
75°	2811
80°	2673
85°	2653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3114 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	2.8
10°-20°	134.8	8.0
20°-30°	210.6	12.6
30°-40°	269.2	16.1
40°-50°	303.8	18.1
50°-60°	291.5	17.4
60°-70°	232.2	13.9
70°-80°	141.0	8.4
80°-90°	46.7	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°	391.7	23.4
0°-40°	661.0	39.4
0°-60°	1256.2	75.0
0°-90°	1676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	487	
5°	487	46
15°	477	135
25°	456	211
35°	429	269
45°	395	304
55°	327	291
65°	235	232
75°	133	141
85°	42	47
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	487.0
2.5°	487.0
5°	486.6
7.5°	485.8
10°	483.1
12.5°	480.3
15°	476.7
17.5°	472.4
20°	467.7
22.5°	462.1
25°	456.2
27.5°	449.5
30°	442.8
32.5°	436.1
35°	429.3
37.5°	422.2
40°	415.1
42.5°	406.0
45°	395.0
47.5°	380.8
50°	364.6
52.5°	346.8
55°	326.6
57.5°	305.3
60°	283.2
62.5°	259.5
65°	235.0
67.5°	210.1
70°	183.7
72.5°	158.4
75°	133.1
77.5°	108.6
80°	84.9
82.5°	62.8
85°	42.3
87.5°	24.1
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	16.36	18.07	16.72	18.38	18.70	16.36	18.07	16.72	18.38	18.70
	3H	18.32	19.88	18.70	20.20	20.56	18.32	19.88	18.70	20.20	20.56
	4H	19.08	20.55	19.48	20.90	21.27	19.08	20.55	19.48	20.90	21.27
	6H	19.68	21.04	20.09	21.41	21.80	19.68	21.04	20.09	21.41	21.80
	8H	19.90	21.20	20.32	21.59	21.99	19.90	21.20	20.32	21.59	21.99
	12H	20.07	21.32	20.50	21.70	22.13	20.07	21.32	20.50	21.70	22.13
4H	2H	17.05	18.52	17.45	18.87	19.24	17.05	18.52	17.45	18.87	19.24
	3H	19.23	20.47	19.64	20.87	21.27	19.23	20.47	19.64	20.87	21.27
	4H	20.13	21.26	20.56	21.67	22.10	20.13	21.26	20.56	21.67	22.10
	6H	20.87	21.86	21.32	22.30	22.75	20.87	21.86	21.32	22.30	22.75
	8H	21.15	22.07	21.60	22.51	22.98	21.15	22.07	21.60	22.51	22.98
	12H	21.38	22.22	21.86	22.69	23.16	21.38	22.22	21.86	22.69	23.16
8H	4H	20.49	21.42	20.95	21.86	22.33	20.49	21.42	20.95	21.86	22.33
	6H	21.38	22.15	21.87	22.64	23.11	21.38	22.15	21.87	22.64	23.11
	8H	21.74	22.44	22.25	22.95	23.43	21.74	22.44	22.25	22.95	23.43
	12H	22.07	22.69	22.58	23.18	23.74	22.07	22.69	22.58	23.18	23.74
12H	4H	20.55	21.38	21.02	21.86	22.32	20.55	21.38	21.02	21.86	22.32
	6H	21.46	22.16	21.96	22.66	23.14	21.46	22.16	21.96	22.66	23.14
	8H	21.90	22.52	22.40	23.00	23.56	21.90	22.52	22.40	23.00	23.56