

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: P866786

Luminaire Tested: PRLX-2001-L-930-83L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866786
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-930-83L-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 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

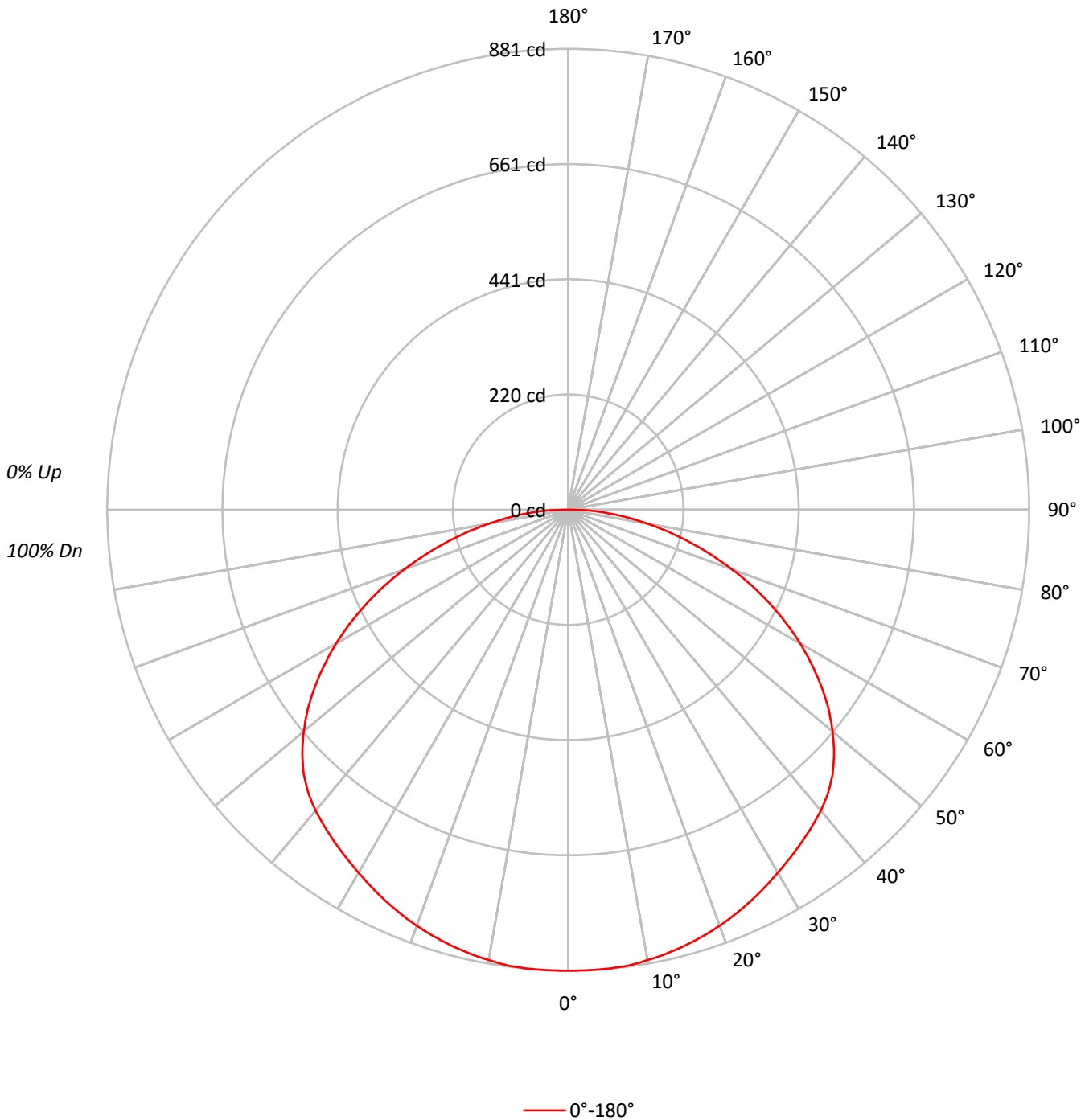
Lumens per Lamp: N/A
Luminaire Lumens: 3033.3 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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°	4818
5°	4833
10°	4853
15°	4883
20°	4924
25°	4980
30°	5058
35°	5186
40°	5362
45°	5526
50°	5612
55°	5635
60°	5604
65°	5502
70°	5313
75°	5088
80°	4839
85°	4798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 5636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	2.8
10°-20°	243.9	8.0
20°-30°	381.2	12.6
30°-40°	487.3	16.1
40°-50°	549.7	18.1
50°-60°	527.5	17.4
60°-70°	420.2	13.9
70°-80°	255.1	8.4
80°-90°	84.5	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°	709.0	23.4
0°-40°	1196.3	39.4
0°-60°	2273.5	75.0
0°-90°	3033.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	881	
5°	881	84
15°	863	244
25°	826	381
35°	777	487
45°	715	550
55°	591	528
65°	425	420
75°	241	255
85°	76	85
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	881.4
2.5°	881.4
5°	880.7
7.5°	879.3
10°	874.3
12.5°	869.3
15°	862.8
17.5°	855.0
20°	846.4
22.5°	836.4
25°	825.6
27.5°	813.5
30°	801.3
32.5°	789.2
35°	777.0
37.5°	764.2
40°	751.3
42.5°	734.9
45°	714.8
47.5°	689.1
50°	659.8
52.5°	627.6
55°	591.2
57.5°	552.6
60°	512.5
62.5°	469.7
65°	425.3
67.5°	380.3
70°	332.4
72.5°	286.7
75°	240.9
77.5°	196.6
80°	153.7
82.5°	113.7
85°	76.5
87.5°	43.6
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	18.42	20.13	18.79	20.45	20.76	18.42	20.13	18.79	20.45	20.76
	3H	20.38	21.94	20.76	22.26	22.62	20.38	21.94	20.76	22.26	22.62
	4H	21.14	22.61	21.54	22.96	23.33	21.14	22.61	21.54	22.96	23.33
	6H	21.74	23.11	22.15	23.47	23.86	21.74	23.11	22.15	23.47	23.86
	8H	21.96	23.27	22.38	23.65	24.05	21.96	23.27	22.38	23.65	24.05
	12H	22.13	23.38	22.56	23.77	24.19	22.13	23.38	22.56	23.77	24.19
4H	2H	19.11	20.58	19.51	20.93	21.30	19.11	20.58	19.51	20.93	21.30
	3H	21.29	22.53	21.70	22.93	23.33	21.29	22.53	21.70	22.93	23.33
	4H	22.19	23.32	22.62	23.73	24.16	22.19	23.32	22.62	23.73	24.16
	6H	22.93	23.92	23.38	24.36	24.81	22.93	23.92	23.38	24.36	24.81
	8H	23.21	24.14	23.67	24.58	25.04	23.21	24.14	23.67	24.58	25.04
	12H	23.44	24.28	23.92	24.75	25.22	23.44	24.28	23.92	24.75	25.22
8H	4H	22.56	23.48	23.01	23.92	24.39	22.56	23.48	23.01	23.92	24.39
	6H	23.44	24.21	23.93	24.70	25.17	23.44	24.21	23.93	24.70	25.17
	8H	23.81	24.50	24.31	25.01	25.49	23.81	24.50	24.31	25.01	25.49
	12H	24.14	24.76	24.64	25.24	25.80	24.14	24.76	24.64	25.24	25.80
12H	4H	22.61	23.45	23.09	23.92	24.39	22.61	23.45	23.09	23.92	24.39
	6H	23.52	24.22	24.03	24.72	25.21	23.52	24.22	24.03	24.72	25.21
	8H	23.96	24.58	24.46	25.07	25.62	23.96	24.58	24.46	25.07	25.62