

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: P867034

Luminaire Tested: PRLX-2002-L-930-67L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867034
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: Pentalux
Catalog Number: PRLX-2002-L-930-67L-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 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

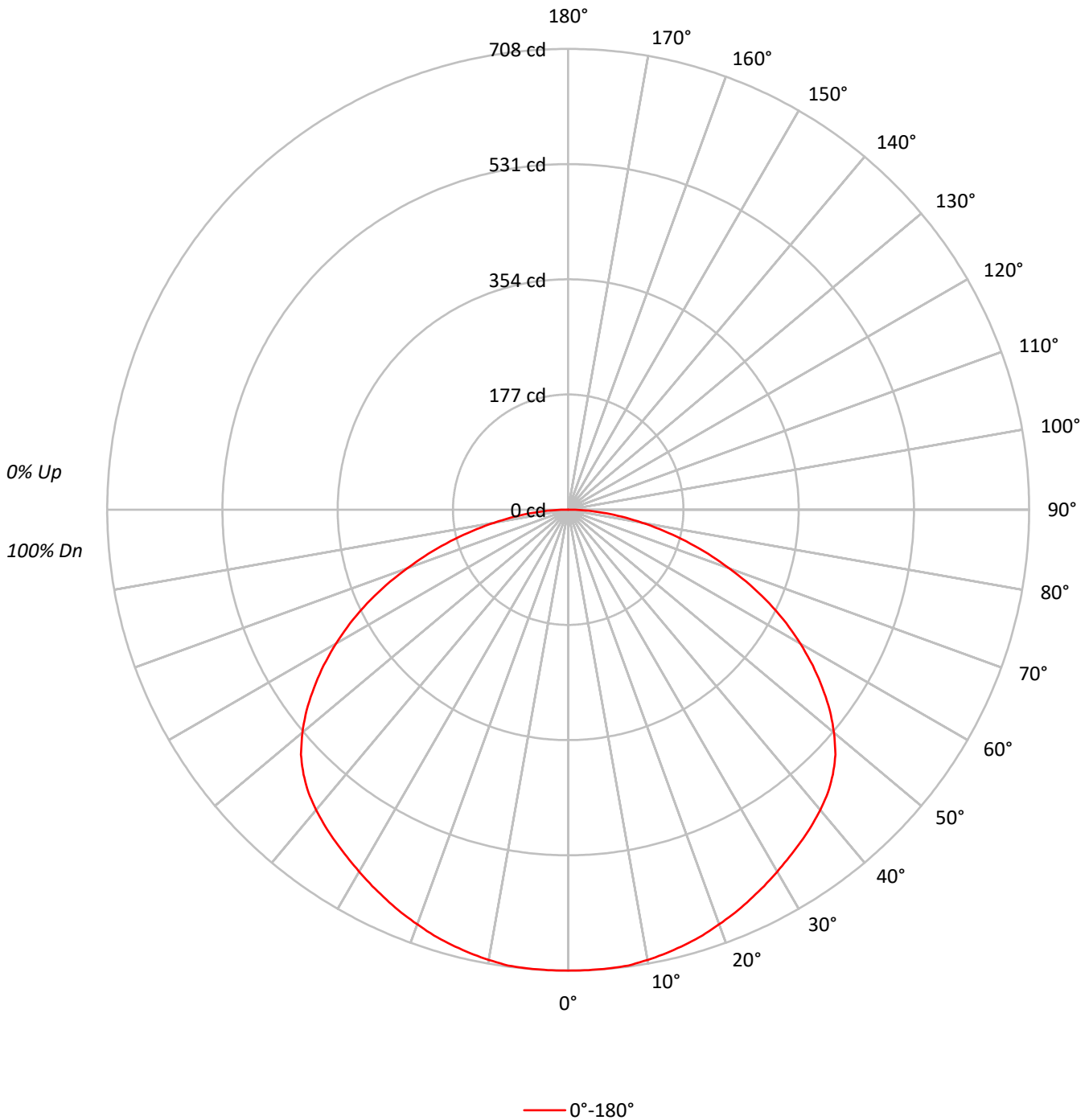
Lumens per Lamp: N/A
Luminaire Lumens: 2421.5 lumens
Efficiency: N/A
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	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	33	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°	3494
5°	3504
10°	3519
15°	3535
20°	3559
25°	3598
30°	3658
35°	3751
40°	3879
45°	4012
50°	4090
55°	4100
60°	4063
65°	3977
70°	3791
75°	3567
80°	3282
85°	3029

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	2.8
10°-20°	195.7	8.1
20°-30°	305.3	12.6
30°-40°	390.7	16.1
40°-50°	442.6	18.3
50°-60°	425.3	17.6
60°-70°	336.1	13.9
70°-80°	198.2	8.2
80°-90°	60.3	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°	568.4	23.5
0°-40°	959.0	39.6
0°-60°	1826.9	75.4
0°-90°	2421.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2421.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	708	
5°	708	67
15°	692	196
25°	661	305
35°	623	391
45°	575	443
55°	477	425
65°	341	336
75°	187	198
85°	54	60
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	708.1
2.5°	708.1
5°	707.5
7.5°	706.4
10°	702.4
12.5°	697.8
15°	692.1
17.5°	685.9
20°	677.9
22.5°	670.0
25°	660.9
27.5°	651.8
30°	642.1
32.5°	632.4
35°	622.8
37.5°	613.1
40°	602.3
42.5°	590.3
45°	575.0
47.5°	556.8
50°	532.9
52.5°	506.7
55°	476.6
57.5°	445.3
60°	411.8
62.5°	377.6
65°	340.7
67.5°	302.6
70°	262.8
72.5°	225.2
75°	187.1
77.5°	150.1
80°	115.5
82.5°	83.0
85°	53.5
87.5°	27.3
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	17.35	19.06	17.71	19.37	19.69	17.35	19.06	17.71	19.37	19.69
	3H	19.27	20.82	19.64	21.14	21.50	19.27	20.82	19.64	21.14	21.50
	4H	19.99	21.45	20.39	21.80	22.17	19.99	21.45	20.39	21.80	22.17
	6H	20.53	21.89	20.94	22.26	22.65	20.53	21.89	20.94	22.26	22.65
	8H	20.72	22.02	21.14	22.41	22.81	20.72	22.02	21.14	22.41	22.81
	12H	20.86	22.11	21.29	22.49	22.92	20.86	22.11	21.29	22.49	22.92
4H	2H	18.03	19.50	18.43	19.85	20.22	18.03	19.50	18.43	19.85	20.22
	3H	20.16	21.40	20.57	21.80	22.19	20.16	21.40	20.57	21.80	22.19
	4H	21.02	22.14	21.45	22.55	22.98	21.02	22.14	21.45	22.55	22.98
	6H	21.70	22.68	22.15	23.12	23.57	21.70	22.68	22.15	23.12	23.57
	8H	21.94	22.86	22.40	23.30	23.76	21.94	22.86	22.40	23.30	23.76
	12H	22.13	22.96	22.61	23.43	23.90	22.13	22.96	22.61	23.43	23.90
8H	4H	21.36	22.28	21.82	22.72	23.19	21.36	22.28	21.82	22.72	23.19
	6H	22.17	22.94	22.66	23.43	23.90	22.17	22.94	22.66	23.43	23.90
	8H	22.49	23.19	23.00	23.69	24.17	22.49	23.19	23.00	23.69	24.17
	12H	22.77	23.38	23.27	23.87	24.43	22.77	23.38	23.27	23.87	24.43
12H	4H	21.41	22.24	21.89	22.71	23.18	21.41	22.24	21.89	22.71	23.18
	6H	22.24	22.94	22.75	23.44	23.92	22.24	22.94	22.75	23.44	23.92
	8H	22.63	23.24	23.13	23.73	24.29	22.63	23.24	23.13	23.73	24.29