

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: P867004

Luminaire Tested: PRLX-2002-L-930-15L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-15L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

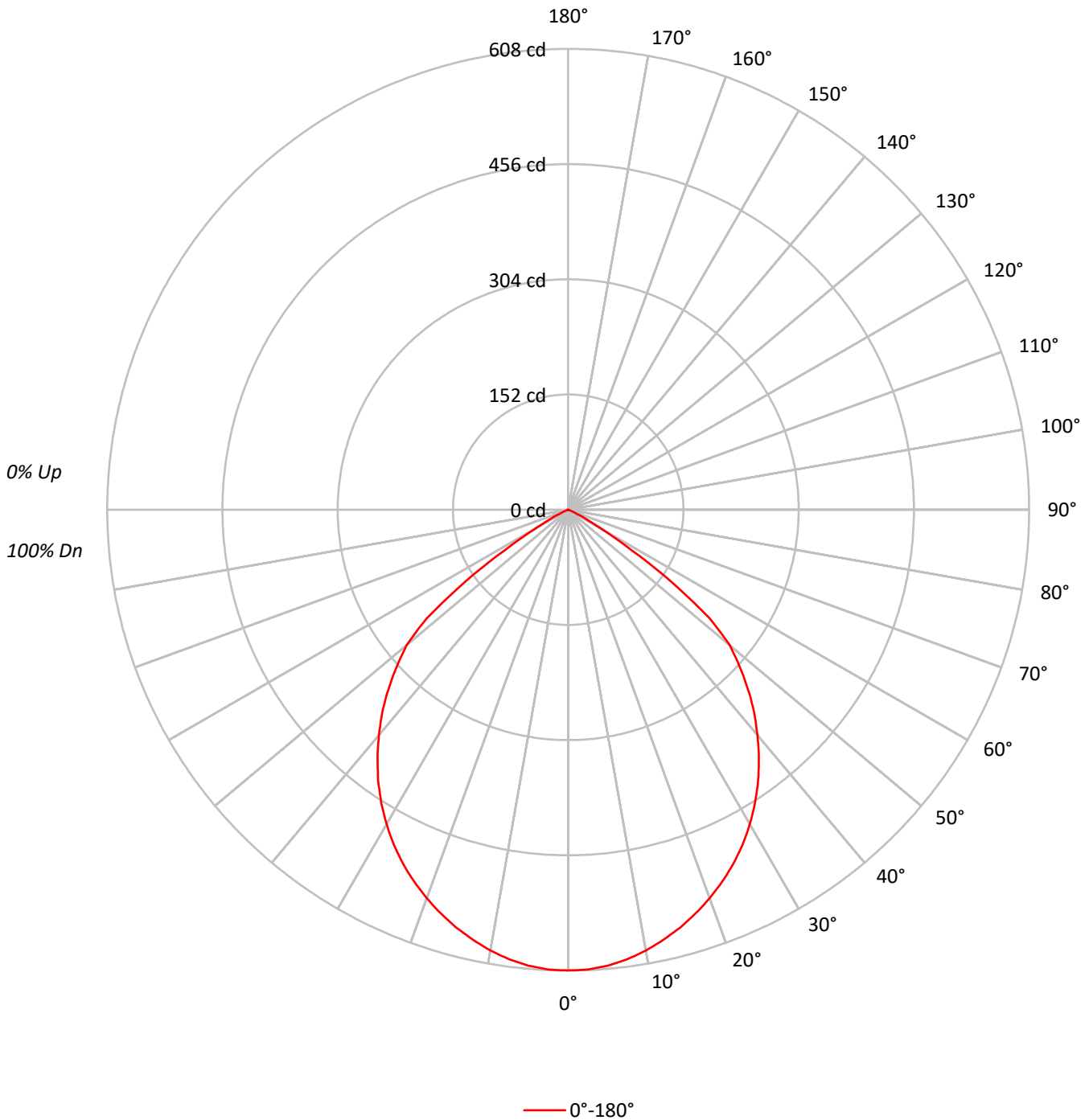
Lumens per Lamp: N/A
Luminaire Lumens: 1149.7 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98		98	97	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66		75	70	66		73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59		68	63	58		66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43		53	47	43		52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36		45	40	35		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2999
5°	2990
10°	2958
15°	2915
20°	2864
25°	2805
30°	2729
35°	2631
40°	2500
45°	2341
50°	2134
55°	1427
60°	507
65°	117
70°	19
75°	19
80°	26
85°	28

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2341 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	5.0
10°-20°	160.8	14.0
20°-30°	237.1	20.6
30°-40°	272.5	23.7
40°-50°	258.0	22.4
50°-60°	146.9	12.8
60°-70°	15.6	1.4
70°-80°	1.1	0.1
80°-90°	0.5	0.0
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°	455.1	39.6
0°-40°	727.6	63.3
0°-60°	1132.5	98.5
0°-90°	1149.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	608	
5°	604	57
15°	571	161
25°	515	237
35°	437	272
45°	336	258
55°	166	147
65°	10	16
75°	1	1
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	607.9
2.5°	607.2
5°	603.8
7.5°	598.2
10°	590.5
12.5°	581.1
15°	570.6
17.5°	558.6
20°	545.4
22.5°	531.1
25°	515.3
27.5°	498.3
30°	479.0
32.5°	458.7
35°	436.8
37.5°	413.1
40°	388.2
42.5°	363.0
45°	335.5
47.5°	306.9
50°	278.0
52.5°	234.7
55°	165.9
57.5°	99.0
60°	51.4
62.5°	25.7
65°	10.0
67.5°	2.0
70°	1.3
72.5°	1.2
75°	1.0
77.5°	0.9
80°	0.9
82.5°	0.7
85°	0.5
87.5°	0.3
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	9.71	11.08	10.08	11.39	11.70	9.71	11.08	10.08	11.39	11.70
	3H	9.59	10.78	9.97	11.11	11.48	9.59	10.78	9.97	11.11	11.48
	4H	9.52	10.63	9.92	10.98	11.36	9.52	10.63	9.92	10.98	11.36
	6H	9.44	10.46	9.86	10.83	11.22	9.44	10.46	9.86	10.83	11.22
	8H	9.40	10.36	9.83	10.75	11.16	9.40	10.36	9.83	10.75	11.16
	12H	9.36	10.28	9.79	10.66	11.09	9.36	10.28	9.79	10.66	11.09
4H	2H	9.54	10.65	9.94	11.00	11.38	9.54	10.65	9.94	11.00	11.38
	3H	9.42	10.31	9.83	10.71	11.11	9.42	10.31	9.83	10.71	11.11
	4H	9.33	10.12	9.77	10.54	10.98	9.33	10.12	9.77	10.54	10.98
	6H	9.25	9.93	9.72	10.38	10.84	9.25	9.93	9.72	10.38	10.84
	8H	9.20	9.83	9.67	10.28	10.75	9.20	9.83	9.67	10.28	10.75
	12H	9.15	9.71	9.64	10.19	10.67	9.15	9.71	9.64	10.19	10.67
8H	4H	9.19	9.83	9.66	10.27	10.75	9.19	9.83	9.66	10.27	10.75
	6H	9.09	9.61	9.59	10.11	10.59	9.09	9.61	9.59	10.11	10.59
	8H	9.02	9.50	9.54	10.01	10.50	9.02	9.50	9.54	10.01	10.50
	12H	8.97	9.40	9.49	9.89	10.46	8.97	9.40	9.49	9.89	10.46
12H	4H	9.14	9.71	9.63	10.19	10.66	9.14	9.71	9.63	10.19	10.66
	6H	9.02	9.49	9.54	10.01	10.50	9.02	9.49	9.54	10.01	10.50
	8H	8.97	9.40	9.48	9.89	10.46	8.97	9.40	9.48	9.89	10.46