

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: P867092

Luminaire Tested: PRLX-2002-L-935-67L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867092
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: Pentalux
Catalog Number: PRLX-2002-L-935-67L-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 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

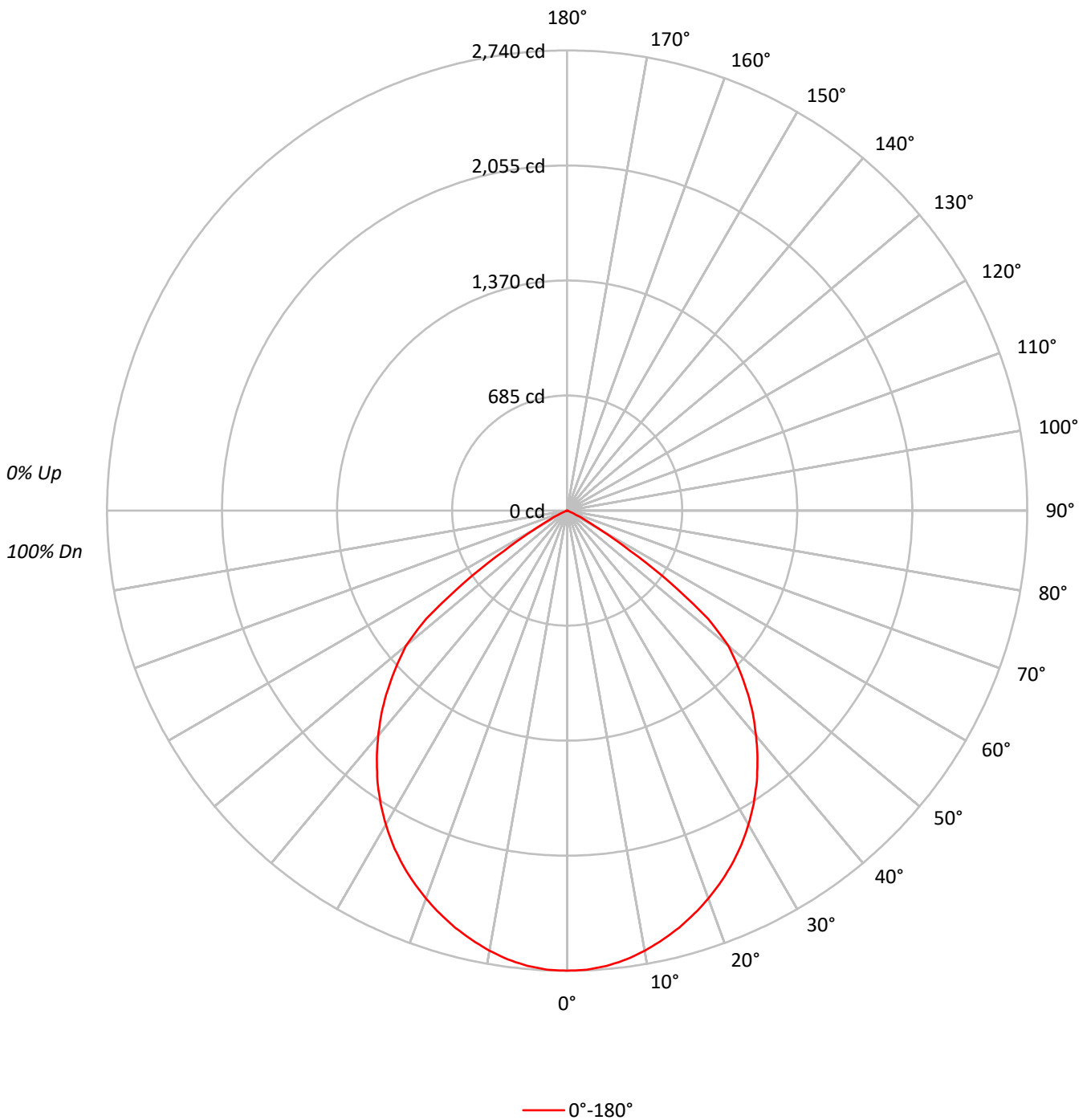
Lumens per Lamp: N/A
Luminaire Lumens: 5181.5 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P867092

CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P867092

CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-BLAK-X

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°	13517
5°	13478
10°	13333
15°	13135
20°	12906
25°	12642
30°	12300
35°	11857
40°	11267
45°	10550
50°	9616
55°	6430
60°	2284
65°	528
70°	85
75°	90
80°	116
85°	136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10550 cd/sqm

TEST NUMBER: P867092

CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	5.0
10°-20°	724.7	14.0
20°-30°	1068.7	20.6
30°-40°	1228.1	23.7
40°-50°	1162.7	22.4
50°-60°	661.9	12.8
60°-70°	70.2	1.4
70°-80°	5.0	0.1
80°-90°	2.3	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°	2051.2	39.6
0°-40°	3279.3	63.3
0°-60°	5103.9	98.5
0°-90°	5181.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5181.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2740	
5°	2721	258
15°	2572	725
25°	2322	1069
35°	1969	1228
45°	1512	1163
55°	748	662
65°	45	70
75°	5	5
85°	2	2
90°	0	

TEST NUMBER: P867092

CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2739.6
2.5°	2736.6
5°	2721.3
7.5°	2696.1
10°	2661.4
12.5°	2619.1
15°	2571.5
17.5°	2517.4
20°	2458.1
22.5°	2393.4
25°	2322.3
27.5°	2245.9
30°	2159.0
32.5°	2067.3
35°	1968.6
37.5°	1861.6
40°	1749.4
42.5°	1636.0
45°	1512.0
47.5°	1383.3
50°	1252.8
52.5°	1057.7
55°	747.5
57.5°	446.0
60°	231.5
62.5°	115.8
65°	45.2
67.5°	8.8
70°	5.9
72.5°	5.3
75°	4.7
77.5°	4.1
80°	4.1
82.5°	2.9
85°	2.4
87.5°	1.2
90°	0.0



TEST NUMBER: P867092
 CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-BLAK-X

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	14.94	16.30	15.31	16.62	16.93	14.94	16.30	15.31	16.62	16.93
	3H	14.82	16.01	15.20	16.34	16.71	14.82	16.01	15.20	16.34	16.71
	4H	14.75	15.86	15.15	16.21	16.59	14.75	15.86	15.15	16.21	16.59
	6H	14.67	15.69	15.09	16.06	16.45	14.67	15.69	15.09	16.06	16.45
	8H	14.63	15.59	15.06	15.98	16.39	14.63	15.59	15.06	15.98	16.39
	12H	14.59	15.51	15.02	15.89	16.32	14.59	15.51	15.02	15.89	16.32
4H	2H	14.77	15.88	15.17	16.23	16.61	14.77	15.88	15.17	16.23	16.61
	3H	14.65	15.53	15.06	15.94	16.34	14.65	15.53	15.06	15.94	16.34
	4H	14.56	15.35	15.00	15.77	16.21	14.56	15.35	15.00	15.77	16.21
	6H	14.48	15.16	14.94	15.61	16.07	14.48	15.16	14.94	15.61	16.07
	8H	14.42	15.06	14.89	15.51	15.98	14.42	15.06	14.89	15.51	15.98
	12H	14.38	14.94	14.86	15.42	15.90	14.38	14.94	14.86	15.42	15.90
8H	4H	14.42	15.06	14.89	15.50	15.97	14.42	15.06	14.89	15.50	15.97
	6H	14.32	14.84	14.82	15.34	15.82	14.32	14.84	14.82	15.34	15.82
	8H	14.25	14.72	14.77	15.24	15.73	14.25	14.72	14.77	15.24	15.73
	12H	14.20	14.63	14.71	15.12	15.69	14.20	14.63	14.71	15.12	15.69
12H	4H	14.37	14.93	14.86	15.42	15.89	14.37	14.93	14.86	15.42	15.89
	6H	14.25	14.72	14.77	15.24	15.73	14.25	14.72	14.77	15.24	15.73
	8H	14.20	14.62	14.71	15.12	15.69	14.20	14.62	14.71	15.12	15.69