

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: P866860

Luminaire Tested: PRLX-2001-L-940-117L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-79)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-117L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

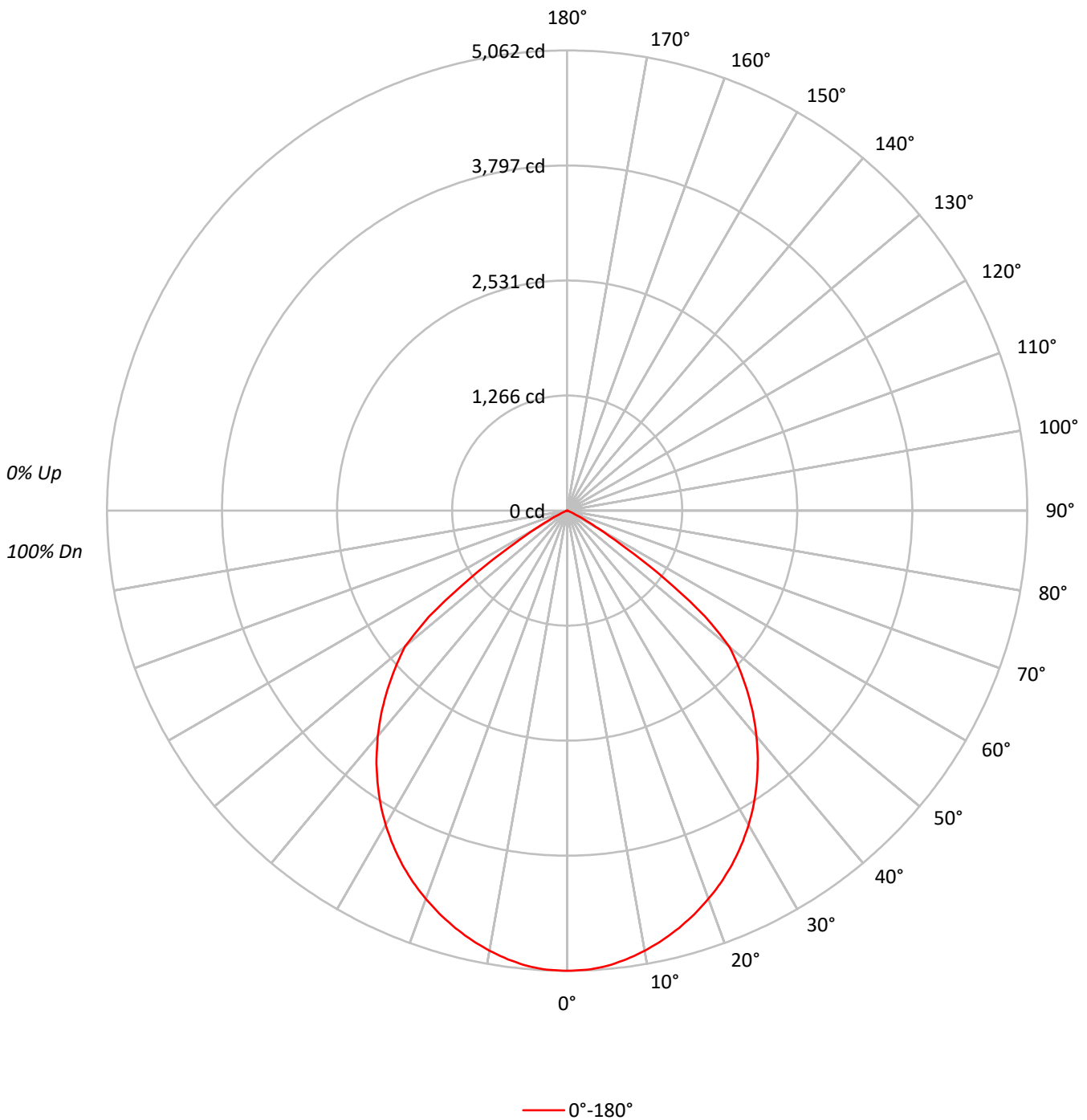
Lumens per Lamp: N/A
Luminaire Lumens: 9539.4 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: P866860

CATALOG NUMBER: PRLX-2001-L-940-117L-L-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866860

CATALOG NUMBER: PRLX-2001-L-940-117L-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	94	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		80	76	73	71
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		66	62	58	56
6	78	67	59	53	76	66	58	53	64	58	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	56	48	43	67	55	48	43	54	48	43		53	47	43		52	47	43	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	41	36	46	40	36		46	40	36		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27674
5°	27595
10°	27293
15°	26905
20°	26442
25°	25909
30°	25201
35°	24294
40°	23126
45°	21634
50°	19799
55°	12559
60°	4359
65°	1096
70°	190
75°	207
80°	239
85°	270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21634 cd/sqm

TEST NUMBER: P866860

CATALOG NUMBER: PRLX-2001-L-940-117L-L-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.4	5.0
10°-20°	1339.8	14.0
20°-30°	1975.8	20.7
30°-40°	2271.9	23.8
40°-50°	2153.9	22.6
50°-60°	1181.6	12.4
60°-70°	125.0	1.3
70°-80°	10.3	0.1
80°-90°	4.6	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°	3791.9	39.8
0°-40°	6063.9	63.6
0°-60°	9399.4	98.5
0°-90°	9539.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9539.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5062	
5°	5028	476
15°	4754	1340
25°	4295	1976
35°	3640	2272
45°	2798	2154
55°	1318	1182
65°	85	125
75°	10	10
85°	4	5
90°	0	

TEST NUMBER: P866860

CATALOG NUMBER: PRLX-2001-L-940-117L-L-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	5062.2
2.5°	5056.8
5°	5028.5
7.5°	4979.6
10°	4916.6
12.5°	4841.7
15°	4753.7
17.5°	4654.8
20°	4545.1
22.5°	4425.6
25°	4295.3
27.5°	4149.7
30°	3992.2
32.5°	3822.7
35°	3640.2
37.5°	3445.8
40°	3240.5
42.5°	3025.4
45°	2798.3
47.5°	2566.9
50°	2328.0
52.5°	1913.0
55°	1317.7
57.5°	753.9
60°	398.7
62.5°	207.5
65°	84.7
67.5°	16.3
70°	11.9
72.5°	10.9
75°	9.8
77.5°	8.7
80°	7.6
82.5°	6.5
85°	4.3
87.5°	2.2
90°	0.0



TEST NUMBER: P866860
 CATALOG NUMBER: PRLX-2001-L-940-117L-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	16.83	18.19	17.20	18.51	18.82	16.83	18.19	17.20	18.51	18.82
	3H	16.71	17.90	17.09	18.23	18.60	16.71	17.90	17.09	18.23	18.60
	4H	16.64	17.75	17.04	18.10	18.48	16.64	17.75	17.04	18.10	18.48
	6H	16.57	17.58	16.98	17.95	18.34	16.57	17.58	16.98	17.95	18.34
	8H	16.53	17.48	16.96	17.87	18.28	16.53	17.48	16.96	17.87	18.28
	12H	16.48	17.40	16.92	17.78	18.21	16.48	17.40	16.92	17.78	18.21
4H	2H	16.67	17.77	17.07	18.12	18.50	16.67	17.77	17.07	18.12	18.50
	3H	16.54	17.43	16.96	17.83	18.24	16.54	17.43	16.96	17.83	18.24
	4H	16.46	17.24	16.89	17.66	18.11	16.46	17.24	16.89	17.66	18.11
	6H	16.38	17.06	16.84	17.50	17.97	16.38	17.06	16.84	17.50	17.97
	8H	16.32	16.96	16.79	17.40	17.87	16.32	16.96	16.79	17.40	17.87
	12H	16.28	16.84	16.76	17.32	17.79	16.28	16.84	16.76	17.32	17.79
8H	4H	16.32	16.95	16.79	17.40	17.87	16.32	16.95	16.79	17.40	17.87
	6H	16.22	16.74	16.72	17.23	17.71	16.22	16.74	16.72	17.23	17.71
	8H	16.15	16.62	16.67	17.14	17.63	16.15	16.62	16.67	17.14	17.63
	12H	16.10	16.53	16.61	17.02	17.59	16.10	16.53	16.61	17.02	17.59
12H	4H	16.27	16.83	16.76	17.31	17.79	16.27	16.83	16.76	17.31	17.79
	6H	16.15	16.62	16.67	17.14	17.63	16.15	16.62	16.67	17.14	17.63
	8H	16.10	16.52	16.61	17.02	17.59	16.10	16.52	16.61	17.02	17.59