

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: P866868

Luminaire Tested: PRLX-2001-L-940-133L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866868
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-940-133L-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 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

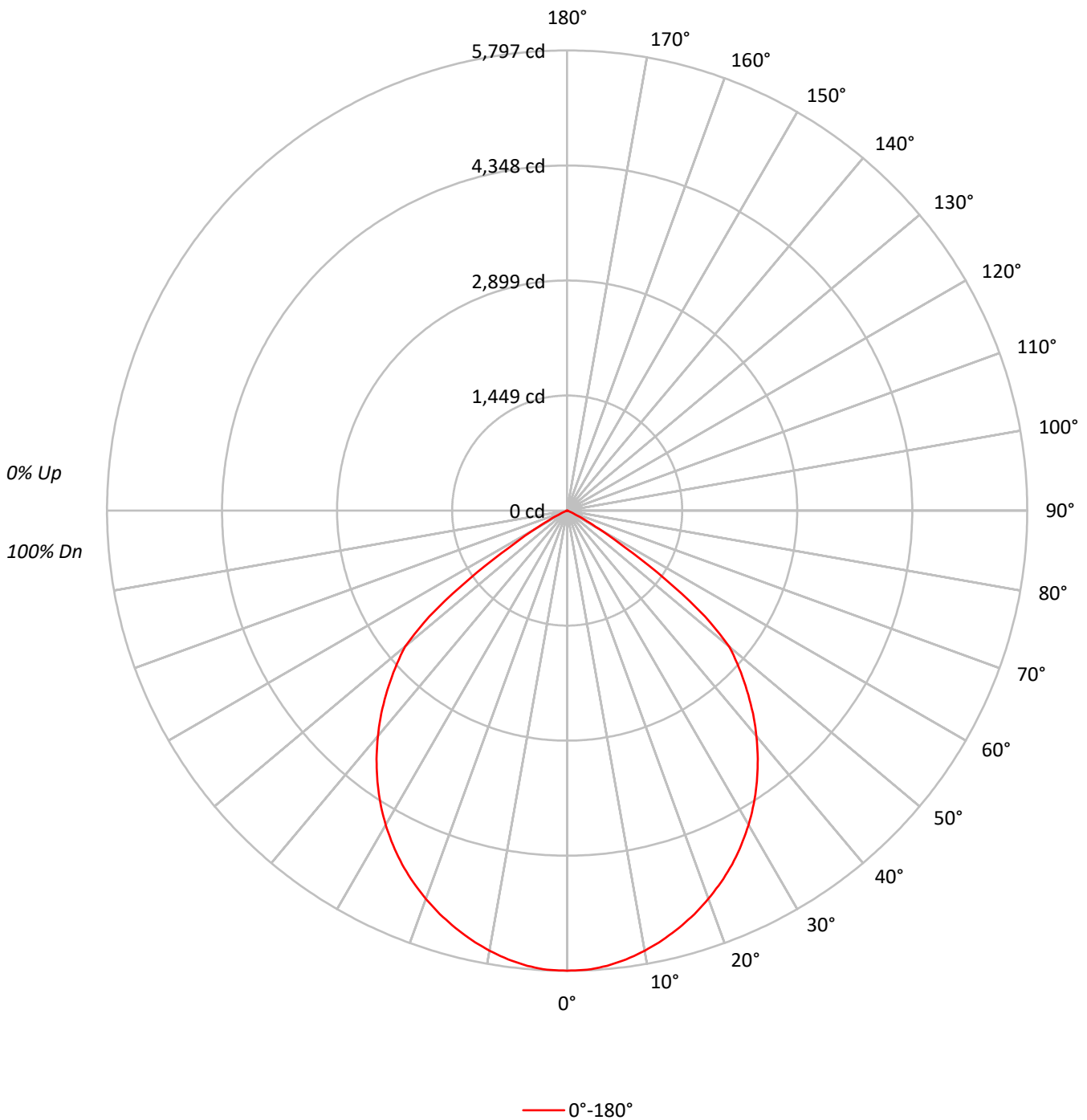
Lumens per Lamp: N/A
Luminaire Lumens: 10923.4 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: P866868

CATALOG NUMBER: PRLX-2001-L-940-133L-L-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866868

CATALOG NUMBER: PRLX-2001-L-940-133L-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°	31690
5°	31599
10°	31253
15°	30808
20°	30279
25°	29668
30°	28857
35°	27819
40°	26481
45°	24773
50°	22672
55°	14382
60°	4991
65°	1255
70°	219
75°	237
80°	274
85°	314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24773 cd/sqm

TEST NUMBER: P866868

CATALOG NUMBER: PRLX-2001-L-940-133L-L-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.5	5.0
10°-20°	1534.1	14.0
20°-30°	2262.5	20.7
30°-40°	2601.6	23.8
40°-50°	2466.4	22.6
50°-60°	1353.0	12.4
60°-70°	143.2	1.3
70°-80°	11.8	0.1
80°-90°	5.3	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°	4342.1	39.8
0°-40°	6943.7	63.6
0°-60°	10763.1	98.5
0°-90°	10923.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10923.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5797	
5°	5758	545
15°	5443	1534
25°	4918	2262
35°	4168	2602
45°	3204	2466
55°	1509	1353
65°	97	143
75°	11	12
85°	5	5
90°	0	

TEST NUMBER: P866868

CATALOG NUMBER: PRLX-2001-L-940-133L-L-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	5796.7
2.5°	5790.4
5°	5758.1
7.5°	5702.1
10°	5630.0
12.5°	5544.2
15°	5443.4
17.5°	5330.2
20°	5204.6
22.5°	5067.7
25°	4918.5
27.5°	4751.8
30°	4571.4
32.5°	4377.4
35°	4168.4
37.5°	3945.7
40°	3710.6
42.5°	3464.3
45°	3204.3
47.5°	2939.4
50°	2665.7
52.5°	2190.5
55°	1508.9
57.5°	863.3
60°	456.5
62.5°	237.6
65°	97.0
67.5°	18.7
70°	13.7
72.5°	12.4
75°	11.2
77.5°	10.0
80°	8.7
82.5°	7.5
85°	5.0
87.5°	2.5
90°	0.0



TEST NUMBER: P866868
 CATALOG NUMBER: PRLX-2001-L-940-133L-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	17.31	18.67	17.67	18.98	19.29	17.31	18.67	17.67	18.98	19.29
	3H	17.18	18.37	17.56	18.70	19.07	17.18	18.37	17.56	18.70	19.07
	4H	17.11	18.22	17.52	18.57	18.95	17.11	18.22	17.52	18.57	18.95
	6H	17.04	18.05	17.45	18.42	18.81	17.04	18.05	17.45	18.42	18.81
	8H	17.00	17.95	17.43	18.34	18.75	17.00	17.95	17.43	18.34	18.75
	12H	16.96	17.87	17.39	18.25	18.68	16.96	17.87	17.39	18.25	18.68
4H	2H	17.14	18.24	17.54	18.59	18.98	17.14	18.24	17.54	18.59	18.98
	3H	17.01	17.90	17.43	18.30	18.71	17.01	17.90	17.43	18.30	18.71
	4H	16.93	17.72	17.36	18.13	18.58	16.93	17.72	17.36	18.13	18.58
	6H	16.85	17.53	17.31	17.97	18.44	16.85	17.53	17.31	17.97	18.44
	8H	16.79	17.43	17.26	17.87	18.35	16.79	17.43	17.26	17.87	18.35
	12H	16.75	17.31	17.23	17.79	18.26	16.75	17.31	17.23	17.79	18.26
8H	4H	16.79	17.42	17.26	17.87	18.34	16.79	17.42	17.26	17.87	18.34
	6H	16.69	17.21	17.19	17.70	18.19	16.69	17.21	17.19	17.70	18.19
	8H	16.62	17.09	17.14	17.61	18.10	16.62	17.09	17.14	17.61	18.10
	12H	16.57	17.00	17.09	17.49	18.06	16.57	17.00	17.09	17.49	18.06
12H	4H	16.74	17.30	17.23	17.78	18.26	16.74	17.30	17.23	17.78	18.26
	6H	16.62	17.09	17.14	17.61	18.10	16.62	17.09	17.14	17.61	18.10
	8H	16.57	16.99	17.08	17.49	18.06	16.57	16.99	17.08	17.49	18.06