

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: P866780

Luminaire Tested: PRLX-2001-L-930-83L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866780
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-930-83L-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 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

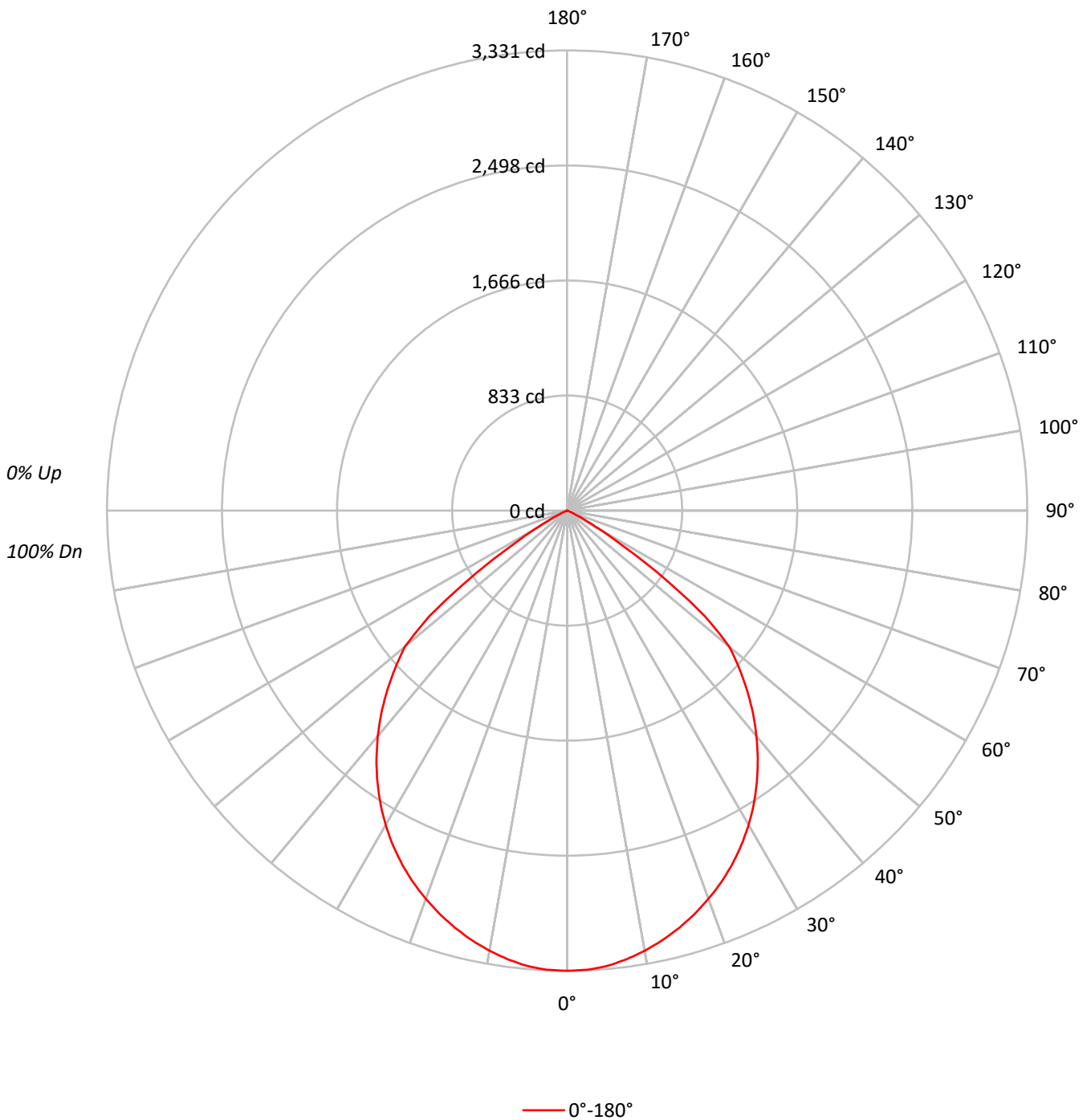
Lumens per Lamp: N/A
Luminaire Lumens: 6277.3 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: P866780

CATALOG NUMBER: PRLX-2001-L-930-83L-L-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866780

CATALOG NUMBER: PRLX-2001-L-930-83L-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°	18211
5°	18159
10°	17960
15°	17705
20°	17400
25°	17049
30°	16584
35°	15987
40°	15218
45°	14236
50°	13029
55°	8264
60°	2868
65°	722
70°	126
75°	135
80°	157
85°	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14236 cd/sqm

TEST NUMBER: P866780

CATALOG NUMBER: PRLX-2001-L-930-83L-L-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	5.0
10°-20°	881.6	14.0
20°-30°	1300.2	20.7
30°-40°	1495.1	23.8
40°-50°	1417.4	22.6
50°-60°	777.5	12.4
60°-70°	82.3	1.3
70°-80°	6.8	0.1
80°-90°	3.0	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°	2495.3	39.8
0°-40°	3990.3	63.6
0°-60°	6185.3	98.5
0°-90°	6277.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6277.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3331	
5°	3309	313
15°	3128	882
25°	2826	1300
35°	2396	1495
45°	1841	1417
55°	867	778
65°	56	82
75°	6	7
85°	3	3
90°	0	

TEST NUMBER: P866780

CATALOG NUMBER: PRLX-2001-L-930-83L-L-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3331.2
2.5°	3327.6
5°	3309.0
7.5°	3276.9
10°	3235.4
12.5°	3186.1
15°	3128.2
17.5°	3063.1
20°	2990.9
22.5°	2912.3
25°	2826.5
27.5°	2730.7
30°	2627.1
32.5°	2515.5
35°	2395.5
37.5°	2267.5
40°	2132.4
42.5°	1990.8
45°	1841.4
47.5°	1689.2
50°	1531.9
52.5°	1258.8
55°	867.1
57.5°	496.1
60°	262.3
62.5°	136.5
65°	55.8
67.5°	10.7
70°	7.9
72.5°	7.1
75°	6.4
77.5°	5.7
80°	5.0
82.5°	4.3
85°	2.9
87.5°	1.4
90°	0.0



TEST NUMBER: P866780
 CATALOG NUMBER: PRLX-2001-L-930-83L-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	15.38	16.74	15.75	17.05	17.37	15.38	16.74	15.75	17.05	17.37
	3H	15.26	16.45	15.64	16.78	17.14	15.26	16.45	15.64	16.78	17.14
	4H	15.19	16.29	15.59	16.64	17.03	15.19	16.29	15.59	16.64	17.03
	6H	15.11	16.12	15.53	16.49	16.89	15.11	16.12	15.53	16.49	16.89
	8H	15.07	16.03	15.50	16.42	16.82	15.07	16.03	15.50	16.42	16.82
	12H	15.03	15.95	15.46	16.33	16.76	15.03	15.95	15.46	16.33	16.76
4H	2H	15.21	16.32	15.61	16.67	17.05	15.21	16.32	15.61	16.67	17.05
	3H	15.09	15.98	15.50	16.38	16.78	15.09	15.98	15.50	16.38	16.78
	4H	15.00	15.79	15.44	16.21	16.65	15.00	15.79	15.44	16.21	16.65
	6H	14.93	15.60	15.39	16.05	16.52	14.93	15.60	15.39	16.05	16.52
	8H	14.87	15.50	15.34	15.95	16.42	14.87	15.50	15.34	15.95	16.42
	12H	14.82	15.38	15.31	15.87	16.34	14.82	15.38	15.31	15.87	16.34
8H	4H	14.87	15.50	15.34	15.94	16.42	14.87	15.50	15.34	15.94	16.42
	6H	14.76	15.28	15.26	15.78	16.26	14.76	15.28	15.26	15.78	16.26
	8H	14.70	15.17	15.22	15.68	16.18	14.70	15.17	15.22	15.68	16.18
	12H	14.65	15.07	15.16	15.57	16.14	14.65	15.07	15.16	15.57	16.14
12H	4H	14.82	15.38	15.30	15.86	16.33	14.82	15.38	15.30	15.86	16.33
	6H	14.69	15.17	15.22	15.68	16.17	14.69	15.17	15.22	15.68	16.17
	8H	14.64	15.07	15.16	15.56	16.14	14.64	15.07	15.16	15.56	16.14