

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: P866909

Luminaire Tested: PRLX-2001-L-940-83L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-83L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

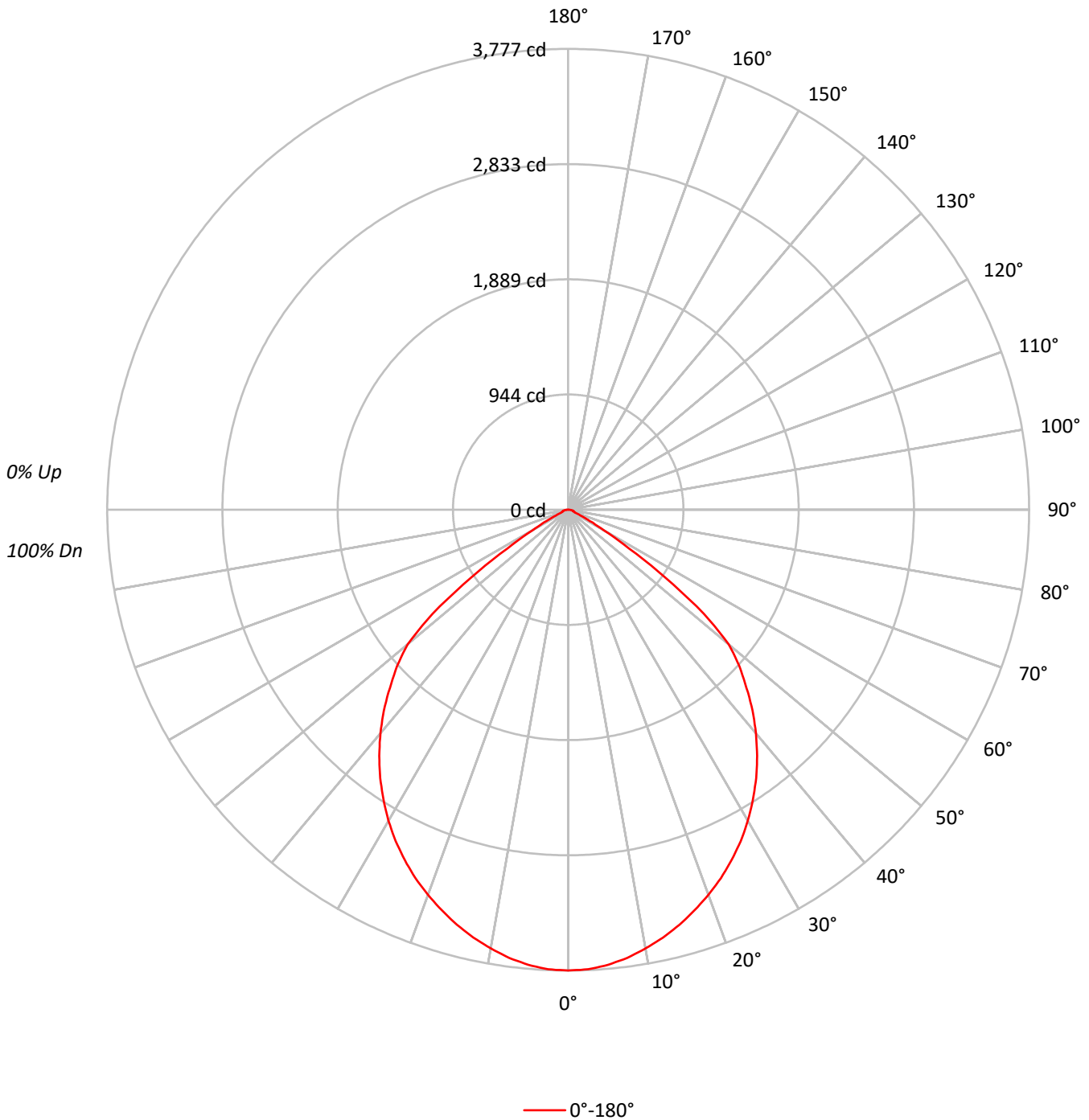
Lumens per Lamp: N/A
Luminaire Lumens: 7158.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866909

CATALOG NUMBER: PRLX-2001-L-940-83L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866909

CATALOG NUMBER: PRLX-2001-L-940-83L-L-X-X-BRSS-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	108	105	102	109	106	103	101	102	100	97		98	96	94		95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20647
5°	20548
10°	20268
15°	19927
20°	19545
25°	19112
30°	18584
35°	17914
40°	17075
45°	15977
50°	14605
55°	9267
60°	3676
65°	1406
70°	850
75°	929
80°	1045
85°	1160

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15977 cd/sqm

TEST NUMBER: P866909

CATALOG NUMBER: PRLX-2001-L-940-83L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.5	5.0
10°-20°	992.2	13.9
20°-30°	1458.4	20.4
30°-40°	1675.8	23.4
40°-50°	1592.1	22.2
50°-60°	882.7	12.3
60°-70°	137.8	1.9
70°-80°	46.2	0.6
80°-90°	19.2	0.3
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°	2805.1	39.2
0°-40°	4480.8	62.6
0°-60°	6955.7	97.2
0°-90°	7158.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7158.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3777	
5°	3744	354
15°	3521	992
25°	3168	1458
35°	2684	1676
45°	2066	1592
55°	972	883
65°	109	138
75°	44	46
85°	18	19
90°	0	

TEST NUMBER: P866909

CATALOG NUMBER: PRLX-2001-L-940-83L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	3776.8
2.5°	3770.6
5°	3744.4
7.5°	3705.1
10°	3651.1
12.5°	3591.7
15°	3520.8
17.5°	3442.9
20°	3359.6
22.5°	3269.4
25°	3168.4
27.5°	3062.0
30°	2944.0
32.5°	2817.6
35°	2684.2
37.5°	2543.0
40°	2392.7
42.5°	2236.2
45°	2066.5
47.5°	1902.3
50°	1717.2
52.5°	1401.8
55°	972.3
57.5°	591.4
60°	336.2
62.5°	199.7
65°	108.7
67.5°	59.4
70°	53.2
72.5°	48.6
75°	44.0
77.5°	39.3
80°	33.2
82.5°	26.2
85°	18.5
87.5°	9.3
90°	0.0

TEST NUMBER: P866909
 CATALOG NUMBER: PRLX-2001-L-940-83L-L-X-X-BRSS-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	16.15	17.52	16.51	17.83	18.15	16.15	17.52	16.51	17.83	18.15
	3H	16.08	17.29	16.46	17.62	17.99	16.08	17.29	16.46	17.62	17.99
	4H	16.06	17.18	16.46	17.53	17.92	16.06	17.18	16.46	17.53	17.92
	6H	16.05	17.08	16.46	17.45	17.84	16.05	17.08	16.46	17.45	17.84
	8H	16.04	17.01	16.47	17.40	17.81	16.04	17.01	16.47	17.40	17.81
	12H	16.03	16.96	16.46	17.34	17.77	16.03	16.96	16.46	17.34	17.77
4H	2H	16.02	17.14	16.42	17.49	17.87	16.02	17.14	16.42	17.49	17.87
	3H	15.98	16.89	16.40	17.29	17.70	15.98	16.89	16.40	17.29	17.70
	4H	15.98	16.78	16.41	17.20	17.64	15.98	16.78	16.41	17.20	17.64
	6H	16.00	16.69	16.46	17.14	17.61	16.00	16.69	16.46	17.14	17.61
	8H	16.00	16.65	16.47	17.10	17.57	16.00	16.65	16.47	17.10	17.57
	12H	16.01	16.58	16.49	17.06	17.54	16.01	16.58	16.49	17.06	17.54
8H	4H	15.88	16.53	16.35	16.98	17.45	15.88	16.53	16.35	16.98	17.45
	6H	15.93	16.46	16.43	16.96	17.44	15.93	16.46	16.43	16.96	17.44
	8H	15.95	16.43	16.47	16.95	17.44	15.95	16.43	16.47	16.95	17.44
	12H	15.98	16.42	16.50	16.91	17.48	15.98	16.42	16.50	16.91	17.48
12H	4H	15.85	16.42	16.33	16.91	17.38	15.85	16.42	16.33	16.91	17.38
	6H	15.88	16.37	16.40	16.88	17.37	15.88	16.37	16.40	16.88	17.37
	8H	15.93	16.37	16.45	16.86	17.43	15.93	16.37	16.45	16.86	17.43