

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: P866877

Luminaire Tested: PRLX-2001-L-940-15L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866877
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-940-15L-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 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

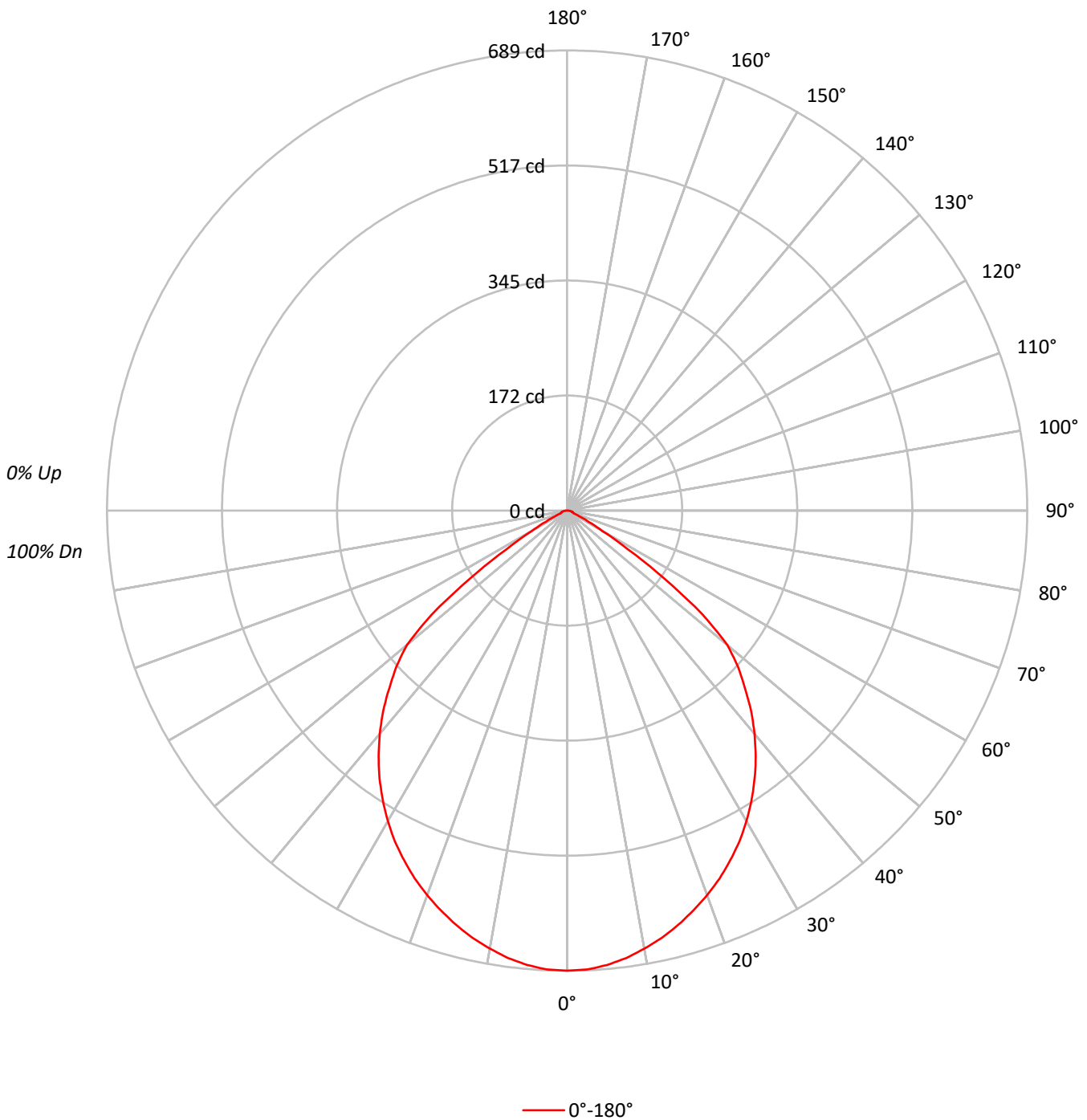
Lumens per Lamp: N/A
Luminaire Lumens: 1305.8 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866877

CATALOG NUMBER: PRLX-2001-L-940-15L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866877

CATALOG NUMBER: PRLX-2001-L-940-15L-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°	3766
5°	3748
10°	3697
15°	3635
20°	3565
25°	3486
30°	3390
35°	3267
40°	3114
45°	2914
50°	2664
55°	1691
60°	670
65°	256
70°	155
75°	169
80°	189
85°	213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2914 cd/sqm

TEST NUMBER: P866877

CATALOG NUMBER: PRLX-2001-L-940-15L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	5.0
10°-20°	181.0	13.9
20°-30°	266.0	20.4
30°-40°	305.6	23.4
40°-50°	290.4	22.2
50°-60°	161.0	12.3
60°-70°	25.1	1.9
70°-80°	8.4	0.6
80°-90°	3.5	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°	511.6	39.2
0°-40°	817.3	62.6
0°-60°	1268.7	97.2
0°-90°	1305.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1305.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	689	
5°	683	65
15°	642	181
25°	578	266
35°	490	306
45°	377	290
55°	177	161
65°	20	25
75°	8	8
85°	3	4
90°	0	

TEST NUMBER: P866877

CATALOG NUMBER: PRLX-2001-L-940-15L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	688.9
2.5°	687.8
5°	683.0
7.5°	675.8
10°	666.0
12.5°	655.1
15°	642.2
17.5°	628.0
20°	612.8
22.5°	596.3
25°	577.9
27.5°	558.5
30°	537.0
32.5°	513.9
35°	489.6
37.5°	463.8
40°	436.4
42.5°	407.9
45°	376.9
47.5°	347.0
50°	313.2
52.5°	255.7
55°	177.4
57.5°	107.9
60°	61.3
62.5°	36.4
65°	19.8
67.5°	10.8
70°	9.7
72.5°	8.9
75°	8.0
77.5°	7.2
80°	6.0
82.5°	4.8
85°	3.4
87.5°	1.7
90°	0.0

TEST NUMBER: P866877

CATALOG NUMBER: PRLX-2001-L-940-15L-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	10.24	11.61	10.60	11.92	12.24	10.24	11.61	10.60	11.92	12.24
	3H	10.17	11.38	10.55	11.71	12.08	10.17	11.38	10.55	11.71	12.08
	4H	10.15	11.27	10.55	11.62	12.01	10.15	11.27	10.55	11.62	12.01
	6H	10.14	11.17	10.55	11.54	11.93	10.14	11.17	10.55	11.54	11.93
	8H	10.13	11.10	10.56	11.49	11.90	10.13	11.10	10.56	11.49	11.90
	12H	10.11	11.05	10.55	11.43	11.86	10.11	11.05	10.55	11.43	11.86
4H	2H	10.11	11.23	10.51	11.58	11.96	10.11	11.23	10.51	11.58	11.96
	3H	10.07	10.98	10.49	11.38	11.79	10.07	10.98	10.49	11.38	11.79
	4H	10.06	10.87	10.50	11.29	11.73	10.06	10.87	10.50	11.29	11.73
	6H	10.09	10.78	10.55	11.23	11.70	10.09	10.78	10.55	11.23	11.70
	8H	10.09	10.74	10.56	11.18	11.66	10.09	10.74	10.56	11.18	11.66
	12H	10.10	10.67	10.58	11.15	11.63	10.10	10.67	10.58	11.15	11.63
8H	4H	9.97	10.62	10.44	11.07	11.54	9.97	10.62	10.44	11.07	11.54
	6H	10.01	10.55	10.52	11.05	11.53	10.01	10.55	10.52	11.05	11.53
	8H	10.03	10.52	10.56	11.04	11.53	10.03	10.52	10.56	11.04	11.53
	12H	10.07	10.51	10.59	11.00	11.57	10.07	10.51	10.59	11.00	11.57
12H	4H	9.94	10.51	10.42	10.99	11.47	9.94	10.51	10.42	10.99	11.47
	6H	9.97	10.46	10.49	10.97	11.46	9.97	10.46	10.49	10.97	11.46
	8H	10.02	10.46	10.54	10.95	11.52	10.02	10.46	10.54	10.95	11.52