

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: P867133

Luminaire Tested: PRLX-2002-L-940-15L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-15L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

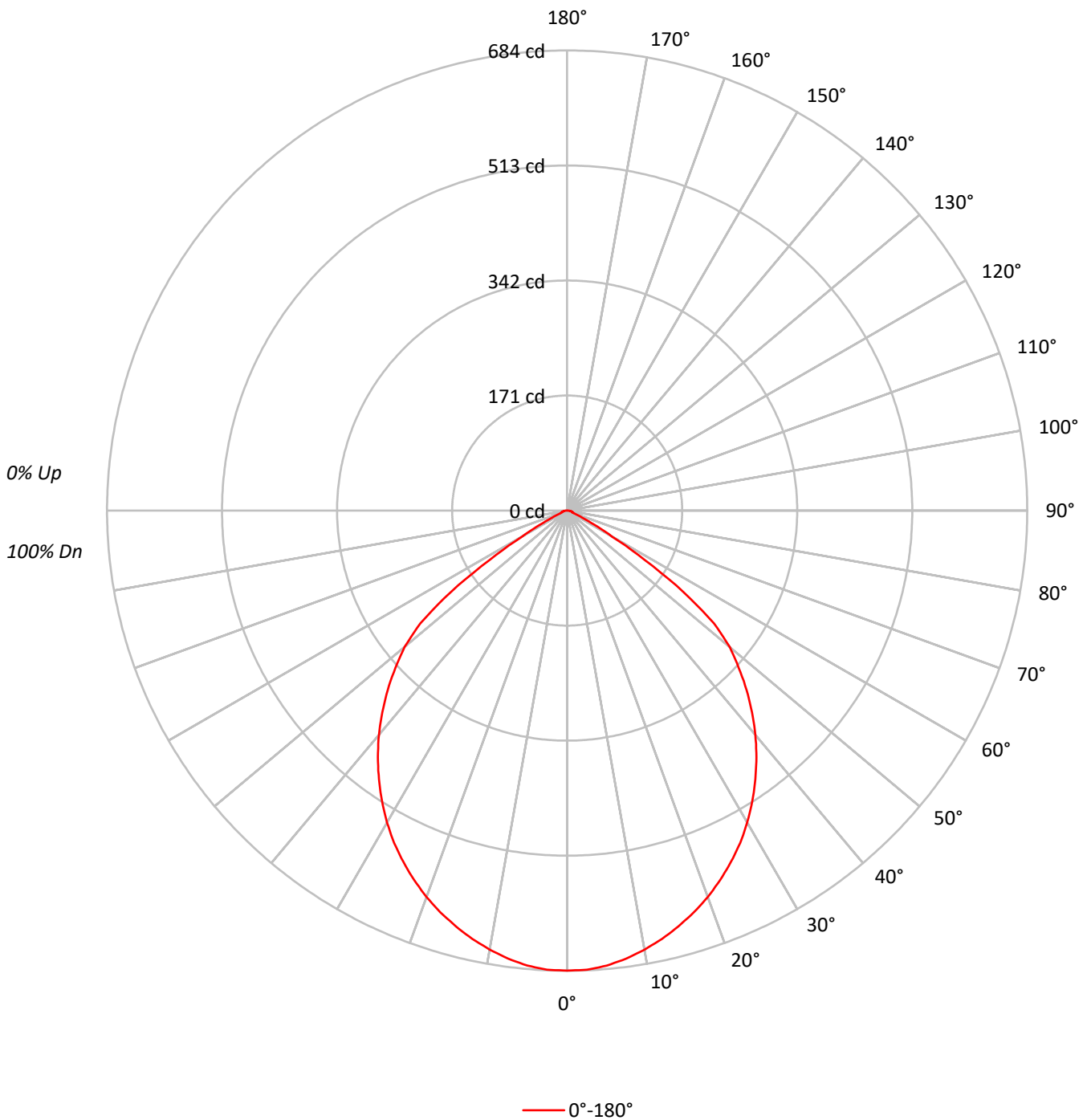
Lumens per Lamp: N/A
Luminaire Lumens: 1327.7 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867133

CATALOG NUMBER: PRLX-2002-L-940-15L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P867133

CATALOG NUMBER: PRLX-2002-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	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3374
5°	3362
10°	3320
15°	3267
20°	3209
25°	3137
30°	3050
35°	2938
40°	2804
45°	2633
50°	2419
55°	1819
60°	766
65°	283
70°	130
75°	143
80°	165
85°	192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2633 cd/sqm

TEST NUMBER: P867133

CATALOG NUMBER: PRLX-2002-L-940-15L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	4.8
10°-20°	180.3	13.6
20°-30°	265.2	20.0
30°-40°	304.6	22.9
40°-50°	290.2	21.9
50°-60°	181.7	13.7
60°-70°	30.1	2.3
70°-80°	7.9	0.6
80°-90°	3.4	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°	509.8	38.4
0°-40°	814.4	61.3
0°-60°	1286.3	96.9
0°-90°	1327.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	684	
5°	679	64
15°	640	180
25°	576	265
35°	488	305
45°	377	290
55°	212	182
65°	24	30
75°	8	8
85°	3	3
90°	0	

TEST NUMBER: P867133

CATALOG NUMBER: PRLX-2002-L-940-15L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	683.8
2.5°	683.1
5°	678.8
7.5°	671.9
10°	662.6
12.5°	652.0
15°	639.7
17.5°	626.1
20°	611.1
22.5°	594.4
25°	576.2
27.5°	557.0
30°	535.4
32.5°	512.1
35°	487.8
37.5°	462.2
40°	435.3
42.5°	406.7
45°	377.3
47.5°	346.0
50°	315.2
52.5°	275.2
55°	211.5
57.5°	136.7
60°	77.6
62.5°	44.0
65°	24.2
67.5°	11.4
70°	9.0
72.5°	8.3
75°	7.5
77.5°	6.6
80°	5.8
82.5°	4.6
85°	3.4
87.5°	1.7
90°	0.0



TEST NUMBER: P867133
 CATALOG NUMBER: PRLX-2002-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	11.44	12.84	11.81	13.15	13.46	11.44	12.84	11.81	13.15	13.46
	3H	11.36	12.58	11.74	12.91	13.28	11.36	12.58	11.74	12.91	13.28
	4H	11.32	12.45	11.72	12.80	13.19	11.32	12.45	11.72	12.80	13.19
	6H	11.28	12.32	11.69	12.69	13.08	11.28	12.32	11.69	12.69	13.08
	8H	11.25	12.24	11.68	12.63	13.04	11.25	12.24	11.68	12.63	13.04
	12H	11.23	12.18	11.66	12.56	12.99	11.23	12.18	11.66	12.56	12.99
4H	2H	11.31	12.45	11.71	12.80	13.18	11.31	12.45	11.71	12.80	13.18
	3H	11.25	12.16	11.66	12.57	12.97	11.25	12.16	11.66	12.57	12.97
	4H	11.20	12.02	11.64	12.44	12.88	11.20	12.02	11.64	12.44	12.88
	6H	11.19	11.89	11.65	12.33	12.80	11.19	11.89	11.65	12.33	12.80
	8H	11.16	11.82	11.63	12.27	12.74	11.16	11.82	11.63	12.27	12.74
	12H	11.15	11.73	11.64	12.22	12.69	11.15	11.73	11.64	12.22	12.69
8H	4H	11.10	11.75	11.56	12.20	12.67	11.10	11.75	11.56	12.20	12.67
	6H	11.07	11.62	11.58	12.11	12.59	11.07	11.62	11.58	12.11	12.59
	8H	11.06	11.55	11.58	12.07	12.56	11.06	11.55	11.58	12.07	12.56
	12H	11.07	11.51	11.58	12.01	12.57	11.07	11.51	11.58	12.01	12.57
12H	4H	11.05	11.64	11.54	12.12	12.59	11.05	11.64	11.54	12.12	12.59
	6H	11.02	11.52	11.54	12.03	12.52	11.02	11.52	11.54	12.03	12.52
	8H	11.03	11.48	11.55	11.97	12.54	11.03	11.48	11.55	11.97	12.54