

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: P867111

Luminaire Tested: PRLX-2002-L-940-100L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-100L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

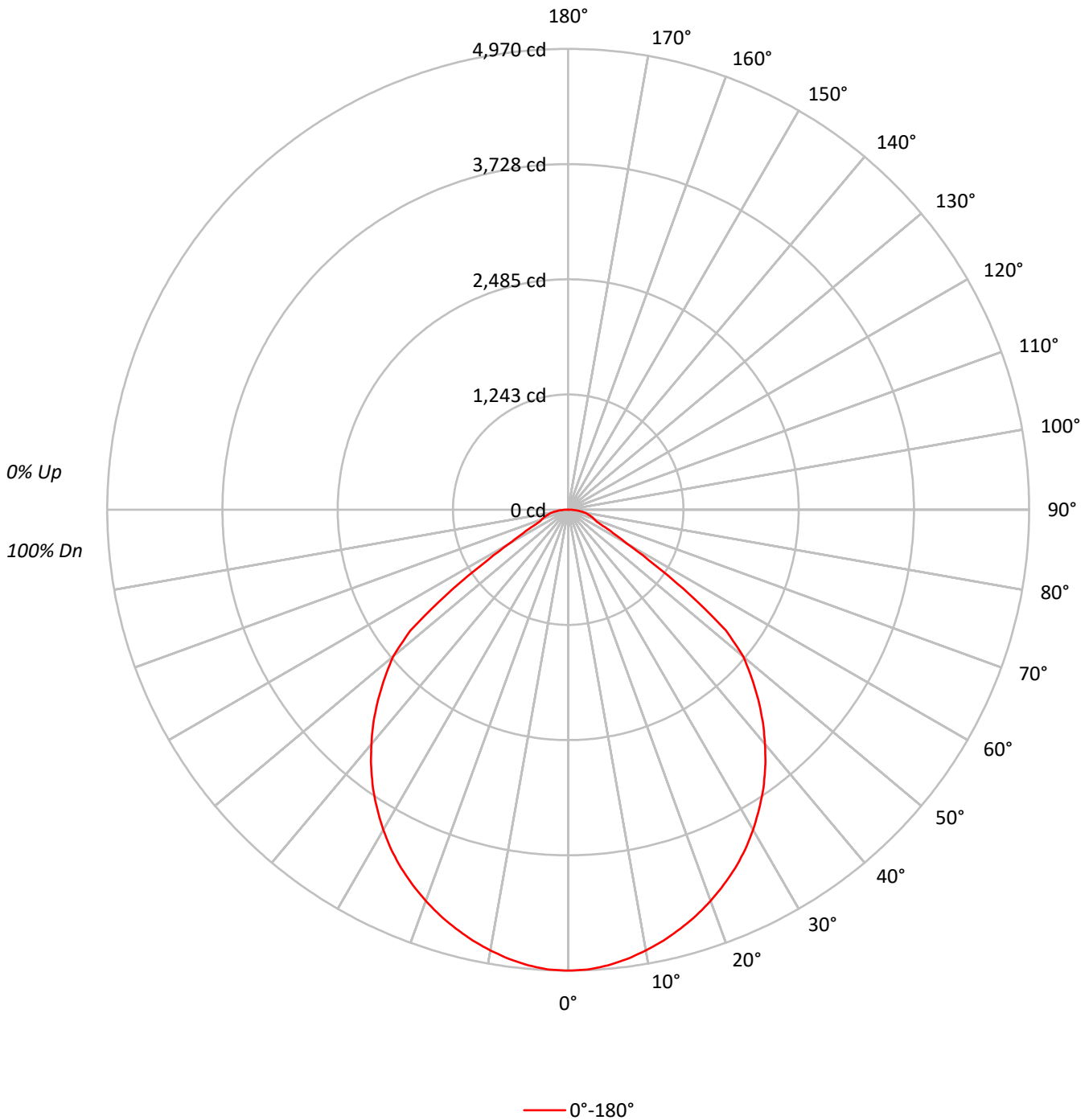
Lumens per Lamp: N/A
Luminaire Lumens: 10499.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: P867111

CATALOG NUMBER: PRLX-2002-L-940-100L-L-X-X-WHHR-X

Luminous Intensity Polar Plot



TEST NUMBER: P867111

CATALOG NUMBER: PRLX-2002-L-940-100L-L-X-X-WHHR-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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24523
5°	24432
10°	24180
15°	23889
20°	23566
25°	23201
30°	22709
35°	22089
40°	21264
45°	20211
50°	18911
55°	13852
60°	7240
65°	4825
70°	4313
75°	4585
80°	5015
85°	5519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20211 cd/sqm

TEST NUMBER: P867111

CATALOG NUMBER: PRLX-2002-L-940-100L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.5	4.5
10°-20°	1319.1	12.6
20°-30°	1961.6	18.7
30°-40°	2289.8	21.8
40°-50°	2230.8	21.2
50°-60°	1429.2	13.6
60°-70°	445.0	4.2
70°-80°	253.5	2.4
80°-90°	102.6	1.0
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°	3748.2	35.7
0°-40°	6038.0	57.5
0°-60°	9697.9	92.4
0°-90°	10499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10499.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4970	
5°	4933	467
15°	4677	1319
25°	4262	1962
35°	3667	2290
45°	2897	2231
55°	1610	1429
65°	413	445
75°	240	253
85°	98	103
90°	0	

TEST NUMBER: P867111

CATALOG NUMBER: PRLX-2002-L-940-100L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	4970.4
2.5°	4963.0
5°	4933.2
7.5°	4886.8
10°	4826.4
12.5°	4758.7
15°	4676.9
17.5°	4589.6
20°	4488.4
22.5°	4379.7
25°	4261.8
27.5°	4131.8
30°	3986.0
32.5°	3830.9
35°	3667.4
37.5°	3491.0
40°	3301.5
42.5°	3105.6
45°	2896.6
47.5°	2683.0
50°	2463.8
52.5°	2144.4
55°	1610.4
57.5°	1090.3
60°	733.7
62.5°	547.0
65°	413.3
67.5°	327.8
70°	299.0
72.5°	272.1
75°	240.5
77.5°	209.9
80°	176.5
82.5°	139.3
85°	97.5
87.5°	52.0
90°	0.0



TEST NUMBER: P867111
 CATALOG NUMBER: PRLX-2002-L-940-100L-L-X-X-WHHR-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	18.67	20.12	19.03	20.43	20.75	18.67	20.12	19.03	20.43	20.75
	3H	19.08	20.37	19.46	20.70	21.06	19.08	20.37	19.46	20.70	21.06
	4H	19.37	20.57	19.77	20.92	21.30	19.37	20.57	19.77	20.92	21.30
	6H	19.69	20.79	20.10	21.16	21.56	19.69	20.79	20.10	21.16	21.56
	8H	19.83	20.88	20.26	21.28	21.68	19.83	20.88	20.26	21.28	21.68
	12H	19.96	20.96	20.39	21.35	21.78	19.96	20.96	20.39	21.35	21.78
4H	2H	18.72	19.93	19.13	20.28	20.66	18.72	19.93	19.13	20.28	20.66
	3H	19.34	20.32	19.75	20.73	21.13	19.34	20.32	19.75	20.73	21.13
	4H	19.76	20.64	20.20	21.06	21.50	19.76	20.64	20.20	21.06	21.50
	6H	20.26	21.02	20.72	21.46	21.93	20.26	21.02	20.72	21.46	21.93
	8H	20.48	21.19	20.94	21.64	22.11	20.48	21.19	20.94	21.64	22.11
	12H	20.68	21.31	21.16	21.79	22.27	20.68	21.31	21.16	21.79	22.27
8H	4H	19.91	20.62	20.37	21.07	21.54	19.91	20.62	20.37	21.07	21.54
	6H	20.54	21.13	21.04	21.63	22.11	20.54	21.13	21.04	21.63	22.11
	8H	20.86	21.40	21.37	21.91	22.40	20.86	21.40	21.37	21.91	22.40
	12H	21.17	21.65	21.68	22.14	22.71	21.17	21.65	21.68	22.14	22.71
12H	4H	19.92	20.56	20.41	21.04	21.51	19.92	20.56	20.41	21.04	21.51
	6H	20.59	21.12	21.10	21.64	22.13	20.59	21.12	21.10	21.64	22.13
	8H	20.97	21.45	21.48	21.94	22.51	20.97	21.45	21.48	21.94	22.51