

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: P866983

Luminaire Tested: PRLX-2002-L-930-100L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866983
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: Pentalux
Catalog Number: PRLX-2002-L-930-100L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

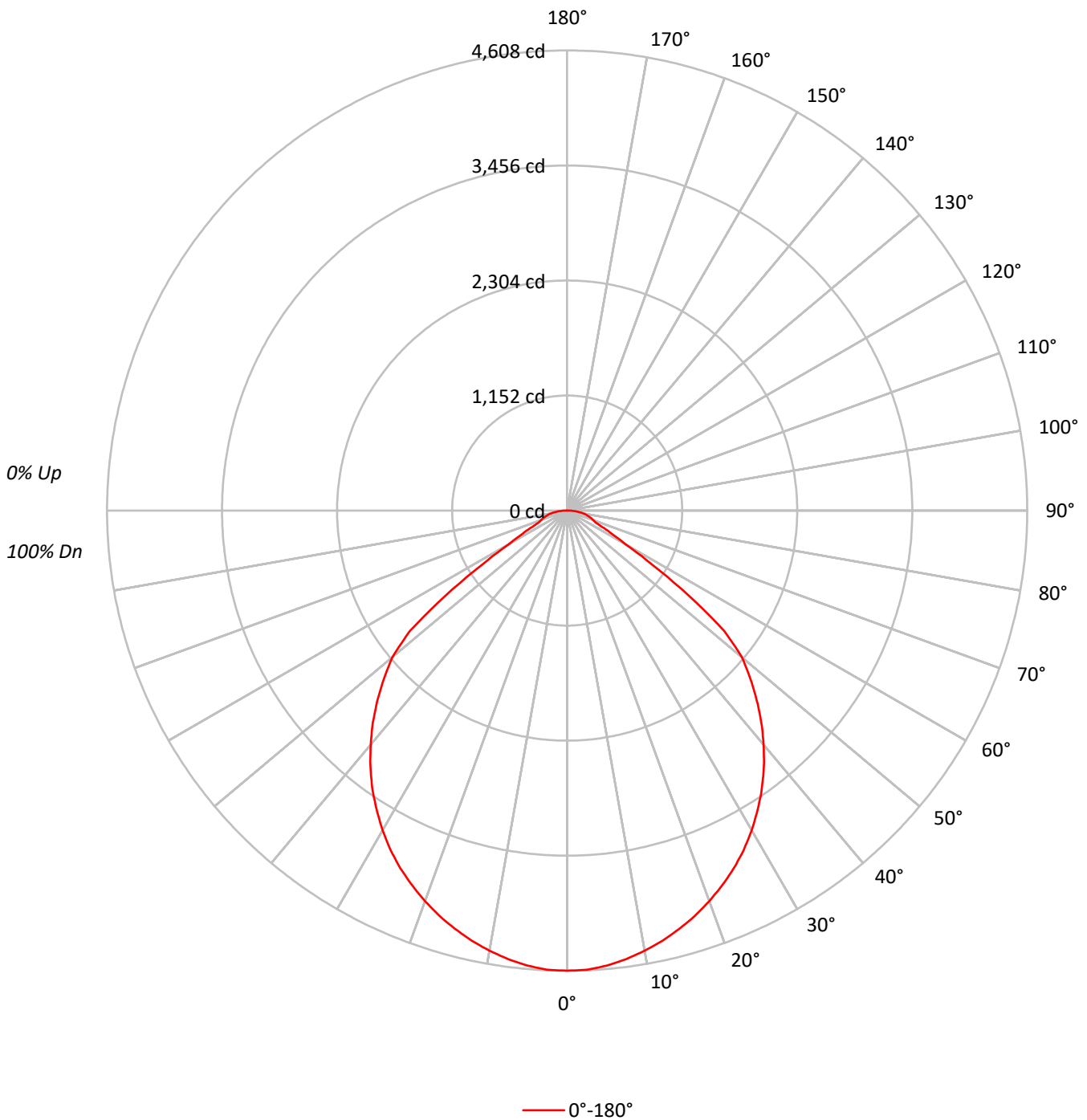
Lumens per Lamp: N/A
Luminaire Lumens: 9733.3 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (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: P866983

CATALOG NUMBER: PRLX-2002-L-930-100L-L-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866983

CATALOG NUMBER: PRLX-2002-L-930-100L-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°	22735
5°	22650
10°	22416
15°	22147
20°	21847
25°	21509
30°	21052
35°	20478
40°	19713
45°	18737
50°	17532
55°	12842
60°	6712
65°	4472
70°	3999
75°	4251
80°	4648
85°	5117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18737 cd/sqm

TEST NUMBER: P866983

CATALOG NUMBER: PRLX-2002-L-930-100L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.4	4.5
10°-20°	1222.9	12.6
20°-30°	1818.5	18.7
30°-40°	2122.8	21.8
40°-50°	2068.1	21.2
50°-60°	1324.9	13.6
60°-70°	412.5	4.2
70°-80°	235.0	2.4
80°-90°	95.1	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°	3474.8	35.7
0°-40°	5597.6	57.5
0°-60°	8990.6	92.4
0°-90°	9733.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9733.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4608	
5°	4573	433
15°	4336	1223
25°	3951	1819
35°	3400	2123
45°	2685	2068
55°	1493	1325
65°	383	413
75°	223	235
85°	90	95
90°	0	

TEST NUMBER: P866983

CATALOG NUMBER: PRLX-2002-L-930-100L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	4607.9
2.5°	4601.0
5°	4573.4
7.5°	4530.4
10°	4474.4
12.5°	4411.6
15°	4335.8
17.5°	4254.9
20°	4161.0
22.5°	4060.3
25°	3951.0
27.5°	3830.4
30°	3695.2
32.5°	3551.5
35°	3399.9
37.5°	3236.4
40°	3060.7
42.5°	2879.1
45°	2685.3
47.5°	2487.3
50°	2284.1
52.5°	1988.0
55°	1492.9
57.5°	1010.8
60°	680.2
62.5°	507.1
65°	383.1
67.5°	303.9
70°	277.2
72.5°	252.3
75°	223.0
77.5°	194.6
80°	163.6
82.5°	129.1
85°	90.4
87.5°	48.2
90°	0.0



TEST NUMBER: P866983
 CATALOG NUMBER: PRLX-2002-L-930-100L-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	18.40	19.86	18.77	20.17	20.49	18.40	19.86	18.77	20.17	20.49
	3H	18.82	20.11	19.20	20.44	20.80	18.82	20.11	19.20	20.44	20.80
	4H	19.10	20.31	19.51	20.66	21.04	19.10	20.31	19.51	20.66	21.04
	6H	19.42	20.53	19.84	20.90	21.29	19.42	20.53	19.84	20.90	21.29
	8H	19.57	20.62	20.00	21.01	21.41	19.57	20.62	20.00	21.01	21.41
	12H	19.69	20.70	20.13	21.08	21.51	19.69	20.70	20.13	21.08	21.51
4H	2H	18.46	19.67	18.86	20.02	20.40	18.46	19.67	18.86	20.02	20.40
	3H	19.08	20.06	19.49	20.46	20.86	19.08	20.06	19.49	20.46	20.86
	4H	19.50	20.38	19.93	20.80	21.24	19.50	20.38	19.93	20.80	21.24
	6H	19.99	20.76	20.45	21.20	21.66	19.99	20.76	20.45	21.20	21.66
	8H	20.21	20.93	20.68	21.37	21.84	20.21	20.93	20.68	21.37	21.84
	12H	20.41	21.05	20.90	21.53	22.00	20.41	21.05	20.90	21.53	22.00
8H	4H	19.65	20.36	20.11	20.80	21.27	19.65	20.36	20.11	20.80	21.27
	6H	20.28	20.87	20.78	21.36	21.84	20.28	20.87	20.78	21.36	21.84
	8H	20.59	21.13	21.11	21.64	22.13	20.59	21.13	21.11	21.64	22.13
	12H	20.90	21.38	21.41	21.88	22.44	20.90	21.38	21.41	21.88	22.44
12H	4H	19.66	20.30	20.14	20.78	21.25	19.66	20.30	20.14	20.78	21.25
	6H	20.32	20.86	20.84	21.37	21.86	20.32	20.86	20.84	21.37	21.86
	8H	20.71	21.19	21.22	21.68	22.25	20.71	21.19	21.22	21.68	22.25