

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: P866296

Luminaire Tested: PRLX-2002-M-935-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-25L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

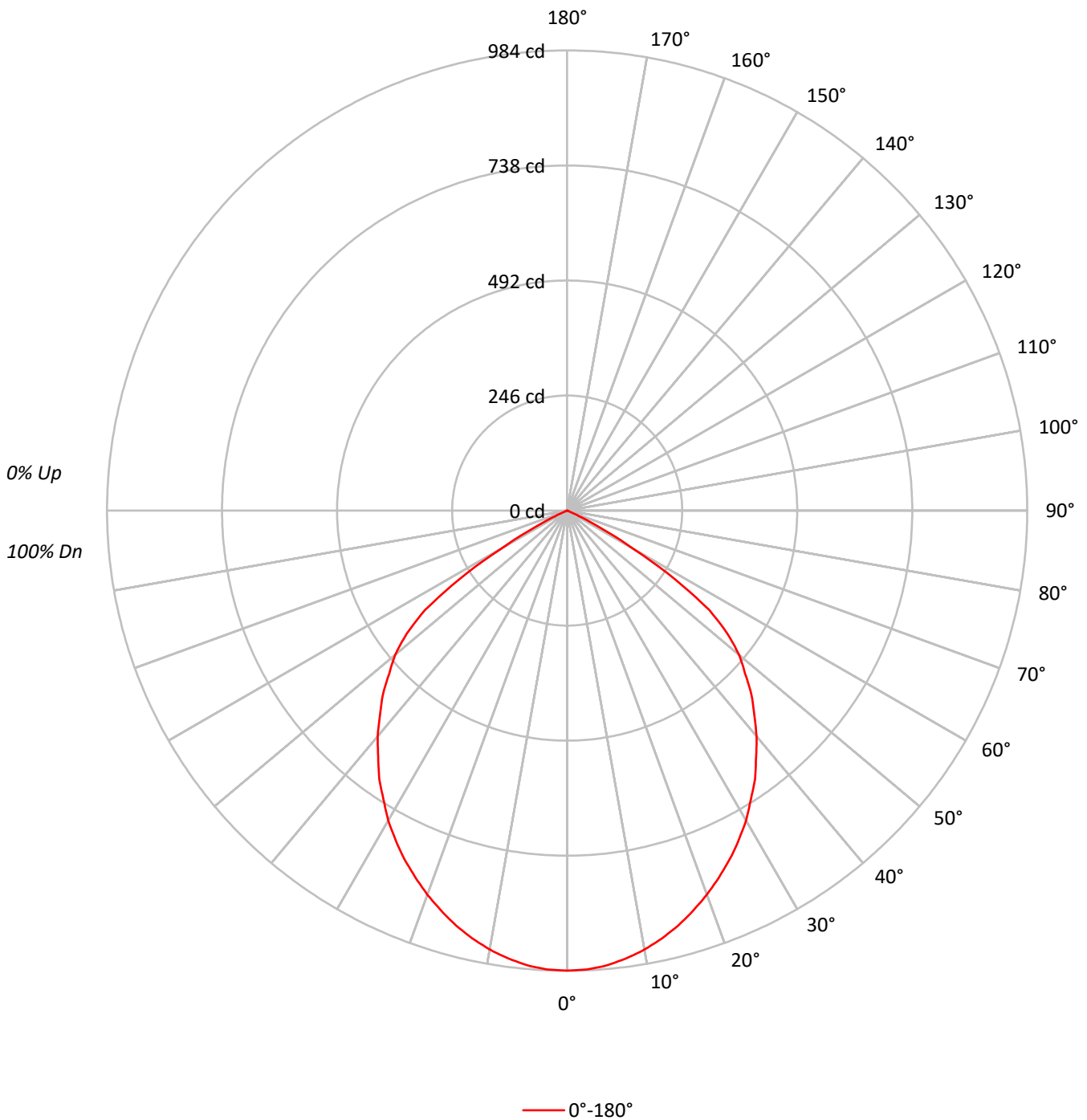
Lumens per Lamp: N/A
Luminaire Lumens: 1957.2 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: P866296

CATALOG NUMBER: PRLX-2002-M-935-25L-L-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866296

CATALOG NUMBER: PRLX-2002-M-935-25L-L-U-S-X-X-BLAK-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	95	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	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7826
5°	7796
10°	7700
15°	7565
20°	7398
25°	7224
30°	7030
35°	6806
40°	6545
45°	6274
50°	5945
55°	5147
60°	2633
65°	510
70°	47
75°	61
80°	64
85°	64

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6274 cd/sqm

TEST NUMBER: P866296

CATALOG NUMBER: PRLX-2002-M-935-25L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	4.7
10°-20°	258.6	13.2
20°-30°	378.7	19.3
30°-40°	437.0	22.3
40°-50°	428.5	21.9
50°-60°	311.4	15.9
60°-70°	47.7	2.4
70°-80°	1.9	0.1
80°-90°	1.0	0.0
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°	729.8	37.3
0°-40°	1166.8	59.6
0°-60°	1906.6	97.4
0°-90°	1957.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	984	
5°	976	92
15°	918	259
25°	823	379
35°	701	437
45°	558	428
55°	371	311
65°	27	48
75°	2	2
85°	1	1
90°	0	

TEST NUMBER: P866296

CATALOG NUMBER: PRLX-2002-M-935-25L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	983.7
2.5°	982.3
5°	976.2
7.5°	966.0
10°	953.1
12.5°	936.9
15°	918.5
17.5°	896.8
20°	873.8
22.5°	848.7
25°	822.9
27.5°	794.4
30°	765.2
32.5°	731.3
35°	700.8
37.5°	663.5
40°	630.2
42.5°	592.2
45°	557.6
47.5°	516.3
50°	480.3
52.5°	432.1
55°	371.1
57.5°	274.1
60°	165.5
62.5°	78.7
65°	27.1
67.5°	6.8
70°	2.0
72.5°	2.0
75°	2.0
77.5°	1.4
80°	1.4
82.5°	1.4
85°	0.7
87.5°	0.7
90°	0.0



TEST NUMBER: P866296
 CATALOG NUMBER: PRLX-2002-M-935-25L-L-U-S-X-X-BLAK-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	16.58	18.00	16.95	18.31	18.62	16.58	18.00	16.95	18.31	18.62
	3H	16.47	17.71	16.85	18.04	18.40	16.47	17.71	16.85	18.04	18.40
	4H	16.40	17.55	16.80	17.90	18.28	16.40	17.55	16.80	17.90	18.28
	6H	16.33	17.38	16.74	17.75	18.15	16.33	17.38	16.74	17.75	18.15
	8H	16.29	17.29	16.72	17.68	18.08	16.29	17.29	16.72	17.68	18.08
	12H	16.25	17.21	16.68	17.59	18.02	16.25	17.21	16.68	17.59	18.02
4H	2H	16.42	17.57	16.82	17.92	18.31	16.42	17.57	16.82	17.92	18.31
	3H	16.31	17.23	16.72	17.64	18.04	16.31	17.23	16.72	17.64	18.04
	4H	16.23	17.05	16.66	17.47	17.91	16.23	17.05	16.66	17.47	17.91
	6H	16.15	16.86	16.61	17.30	17.77	16.15	16.86	16.61	17.30	17.77
	8H	16.09	16.76	16.56	17.20	17.67	16.09	16.76	16.56	17.20	17.67
	12H	16.05	16.64	16.54	17.12	17.59	16.05	16.64	16.54	17.12	17.59
8H	4H	16.09	16.75	16.56	17.20	17.67	16.09	16.75	16.56	17.20	17.67
	6H	15.99	16.54	16.49	17.03	17.51	15.99	16.54	16.49	17.03	17.51
	8H	15.92	16.42	16.45	16.93	17.43	15.92	16.42	16.45	16.93	17.43
	12H	15.88	16.32	16.39	16.81	17.38	15.88	16.32	16.39	16.81	17.38
12H	4H	16.05	16.63	16.53	17.12	17.59	16.05	16.63	16.53	17.12	17.59
	6H	15.92	16.42	16.44	16.93	17.42	15.92	16.42	16.44	16.93	17.42
	8H	15.88	16.32	16.39	16.81	17.38	15.88	16.32	16.39	16.81	17.38