

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: P866114

Luminaire Tested: PRLX-2001-M-940-35L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-35L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

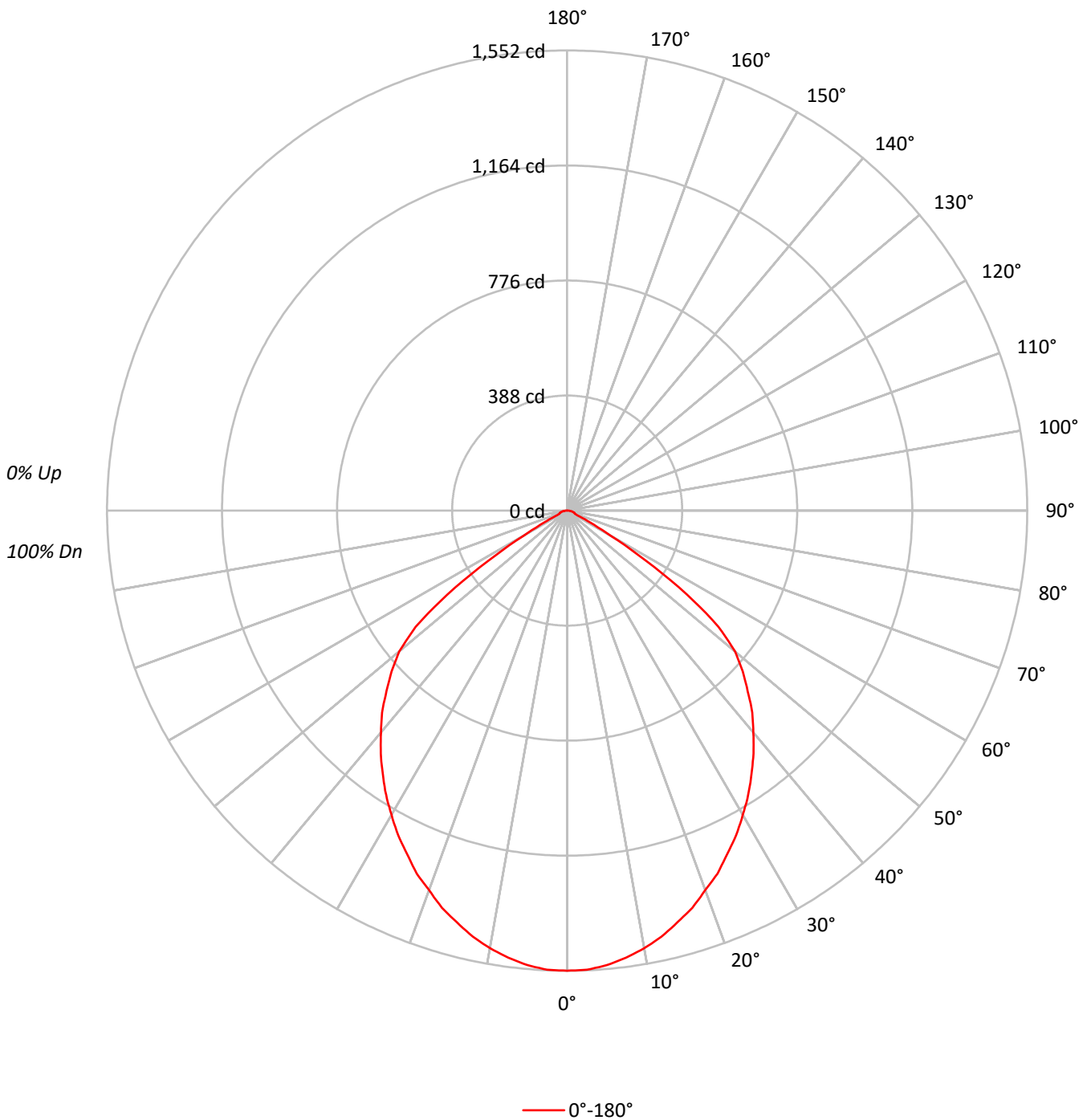
Lumens per Lamp: N/A  
Luminaire Lumens: 2998.4 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P866114

CATALOG NUMBER: PRLX-2001-M-940-35L-L-U-S-X-X-GREY-X

### Luminous Intensity Polar Plot



TEST NUMBER: P866114

CATALOG NUMBER: PRLX-2001-M-940-35L-L-U-S-X-X-GREY-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	91	90
2	104	97	92	87	101	95	91	86	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	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	13170
5°	13110
10°	12915
15°	12629
20°	12301
25°	11963
30°	11613
35°	11236
40°	10824
45°	10339
50°	9754
55°	7303
60°	2884
65°	787
70°	672
75°	725
80°	787
85°	779

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10339 cd/sqm

TEST NUMBER: P866114

CATALOG NUMBER: PRLX-2001-M-940-35L-L-U-S-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	4.9
10°-20°	405.1	13.5
20°-30°	588.9	19.6
30°-40°	678.3	22.6
40°-50°	664.7	22.2
50°-60°	422.3	14.1
60°-70°	61.5	2.1
70°-80°	23.2	0.8
80°-90°	8.7	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°	1139.6	38.0
0°-40°	1817.9	60.6
0°-60°	2904.9	96.9
0°-90°	2998.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1552	
5°	1539	146
15°	1438	405
25°	1278	589
35°	1085	678
45°	862	665
55°	494	422
65°	39	61
75°	22	23
85°	8	9
90°	0	

TEST NUMBER: P866114

CATALOG NUMBER: PRLX-2001-M-940-35L-L-U-S-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1552.0
2.5°	1550.0
5°	1539.0
7.5°	1520.9
10°	1498.8
12.5°	1471.6
15°	1437.5
17.5°	1404.3
20°	1362.1
22.5°	1324.9
25°	1277.6
27.5°	1234.4
30°	1185.1
32.5°	1136.9
35°	1084.6
37.5°	1032.4
40°	977.1
42.5°	923.8
45°	861.5
47.5°	803.2
50°	738.8
52.5°	643.3
55°	493.6
57.5°	314.6
60°	169.9
62.5°	85.4
65°	39.2
67.5°	28.1
70°	27.1
72.5°	25.1
75°	22.1
77.5°	19.1
80°	16.1
82.5°	12.1
85°	8.0
87.5°	4.0
90°	0.0

TEST NUMBER: P866114  
 CATALOG NUMBER: PRLX-2001-M-940-35L-L-U-S-X-X-GREY-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	16.26	17.66	16.63	17.98	18.29	16.26	17.66	16.63	17.98	18.29
	3H	16.19	17.43	16.57	17.76	18.12	16.19	17.43	16.57	17.76	18.12
	4H	16.17	17.32	16.57	17.67	18.05	16.17	17.32	16.57	17.67	18.05
	6H	16.15	17.20	16.56	17.57	17.96	16.15	17.20	16.56	17.57	17.96
	8H	16.13	17.13	16.56	17.52	17.92	16.13	17.13	16.56	17.52	17.92
	12H	16.11	17.06	16.55	17.45	17.88	16.11	17.06	16.55	17.45	17.88
4H	2H	16.10	17.25	16.51	17.60	17.98	16.10	17.25	16.51	17.60	17.98
	3H	16.07	16.99	16.48	17.39	17.80	16.07	16.99	16.48	17.39	17.80
	4H	16.05	16.87	16.49	17.29	17.74	16.05	16.87	16.49	17.29	17.74
	6H	16.07	16.77	16.53	17.22	17.68	16.07	16.77	16.53	17.22	17.68
	8H	16.05	16.72	16.52	17.16	17.63	16.05	16.72	16.52	17.16	17.63
	12H	16.05	16.63	16.53	17.12	17.59	16.05	16.63	16.53	17.12	17.59
8H	4H	15.96	16.62	16.43	17.07	17.54	15.96	16.62	16.43	17.07	17.54
	6H	15.98	16.53	16.48	17.02	17.51	15.98	16.53	16.48	17.02	17.51
	8H	15.98	16.48	16.50	17.00	17.49	15.98	16.48	16.50	17.00	17.49
	12H	16.00	16.45	16.51	16.94	17.51	16.00	16.45	16.51	16.94	17.51
12H	4H	15.92	16.51	16.41	16.99	17.47	15.92	16.51	16.41	16.99	17.47
	6H	15.93	16.43	16.45	16.95	17.44	15.93	16.43	16.45	16.95	17.44
	8H	15.96	16.41	16.48	16.91	17.47	15.96	16.41	16.48	16.91	17.47