

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: P866874

Luminaire Tested: PRLX-2001-L-940-133L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-133L-G-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

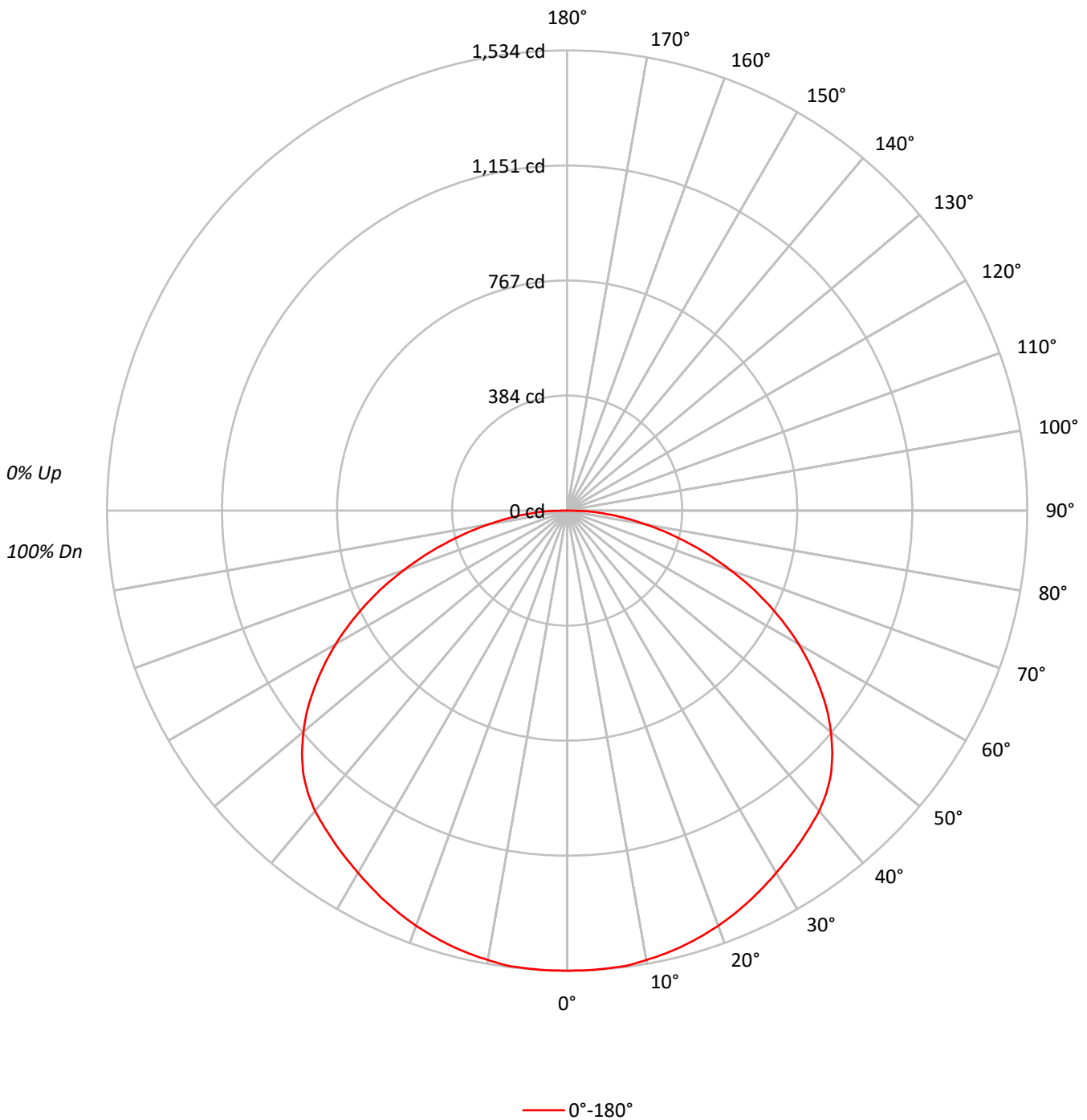
Lumens per Lamp: N/A
Luminaire Lumens: 5278.4 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: P866874

CATALOG NUMBER: PRLX-2001-L-940-133L-G-X-X-GREY-X

Luminous Intensity Polar Plot





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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8385
5°	8410
10°	8445
15°	8497
20°	8568
25°	8666
30°	8802
35°	9024
40°	9330
45°	9617
50°	9764
55°	9805
60°	9752
65°	9574
70°	9245
75°	8854
80°	8418
85°	8349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 9808 cd/sqm

TEST NUMBER: P866874

CATALOG NUMBER: PRLX-2001-L-940-133L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	2.8
10°-20°	424.4	8.0
20°-30°	663.3	12.6
30°-40°	848.0	16.1
40°-50°	956.6	18.1
50°-60°	917.9	17.4
60°-70°	731.2	13.9
70°-80°	443.9	8.4
80°-90°	147.1	2.8
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°	1233.7	23.4
0°-40°	2081.6	39.4
0°-60°	3956.2	75.0
0°-90°	5278.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5278.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1534	
5°	1532	146
15°	1501	424
25°	1437	663
35°	1352	848
45°	1244	957
55°	1029	918
65°	740	731
75°	419	444
85°	133	147
90°	0	

TEST NUMBER: P866874

CATALOG NUMBER: PRLX-2001-L-940-133L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1533.8
2.5°	1533.8
5°	1532.5
7.5°	1530.0
10°	1521.3
12.5°	1512.6
15°	1501.4
17.5°	1487.7
20°	1472.8
22.5°	1455.4
25°	1436.7
27.5°	1415.6
30°	1394.4
32.5°	1373.3
35°	1352.1
37.5°	1329.8
40°	1307.4
42.5°	1278.8
45°	1243.9
47.5°	1199.1
50°	1148.1
52.5°	1092.2
55°	1028.7
57.5°	961.6
60°	891.9
62.5°	817.3
65°	740.1
67.5°	661.8
70°	578.4
72.5°	498.8
75°	419.2
77.5°	342.1
80°	267.4
82.5°	197.8
85°	133.1
87.5°	75.9
90°	0.0

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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	20.35	22.06	20.71	22.37	22.68	20.35	22.06	20.71	22.37	22.68
	3H	22.31	23.86	22.68	24.19	24.55	22.31	23.86	22.68	24.19	24.55
	4H	23.07	24.54	23.46	24.88	25.26	23.07	24.54	23.46	24.88	25.26
	6H	23.67	25.03	24.08	25.39	25.78	23.67	25.03	24.08	25.39	25.78
	8H	23.88	25.19	24.31	25.58	25.98	23.88	25.19	24.31	25.58	25.98
	12H	24.05	25.31	24.48	25.69	26.12	24.05	25.31	24.48	25.69	26.12
4H	2H	21.04	22.51	21.43	22.85	23.23	21.04	22.51	21.43	22.85	23.23
	3H	23.22	24.46	23.63	24.85	25.25	23.22	24.46	23.63	24.85	25.25
	4H	24.11	25.24	24.54	25.65	26.09	24.11	25.24	24.54	25.65	26.09
	6H	24.86	25.84	25.31	26.28	26.74	24.86	25.84	25.31	26.28	26.74
	8H	25.13	26.06	25.59	26.50	26.96	25.13	26.06	25.59	26.50	26.96
	12H	25.36	26.20	25.84	26.67	27.14	25.36	26.20	25.84	26.67	27.14
8H	4H	24.48	25.41	24.94	25.85	26.31	24.48	25.41	24.94	25.85	26.31
	6H	25.36	26.14	25.85	26.62	27.10	25.36	26.14	25.85	26.62	27.10
	8H	25.73	26.43	26.24	26.93	27.41	25.73	26.43	26.24	26.93	27.41
	12H	26.06	26.68	26.56	27.17	27.72	26.06	26.68	26.56	27.17	27.72
12H	4H	24.53	25.37	25.01	25.84	26.31	24.53	25.37	25.01	25.84	26.31
	6H	25.44	26.14	25.95	26.65	27.13	25.44	26.14	25.95	26.65	27.13
	8H	25.88	26.50	26.39	26.99	27.55	25.88	26.50	26.39	26.99	27.55