

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: P866474

Luminaire Tested: PRLX-2004-M-930-07L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-56)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-930-07L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

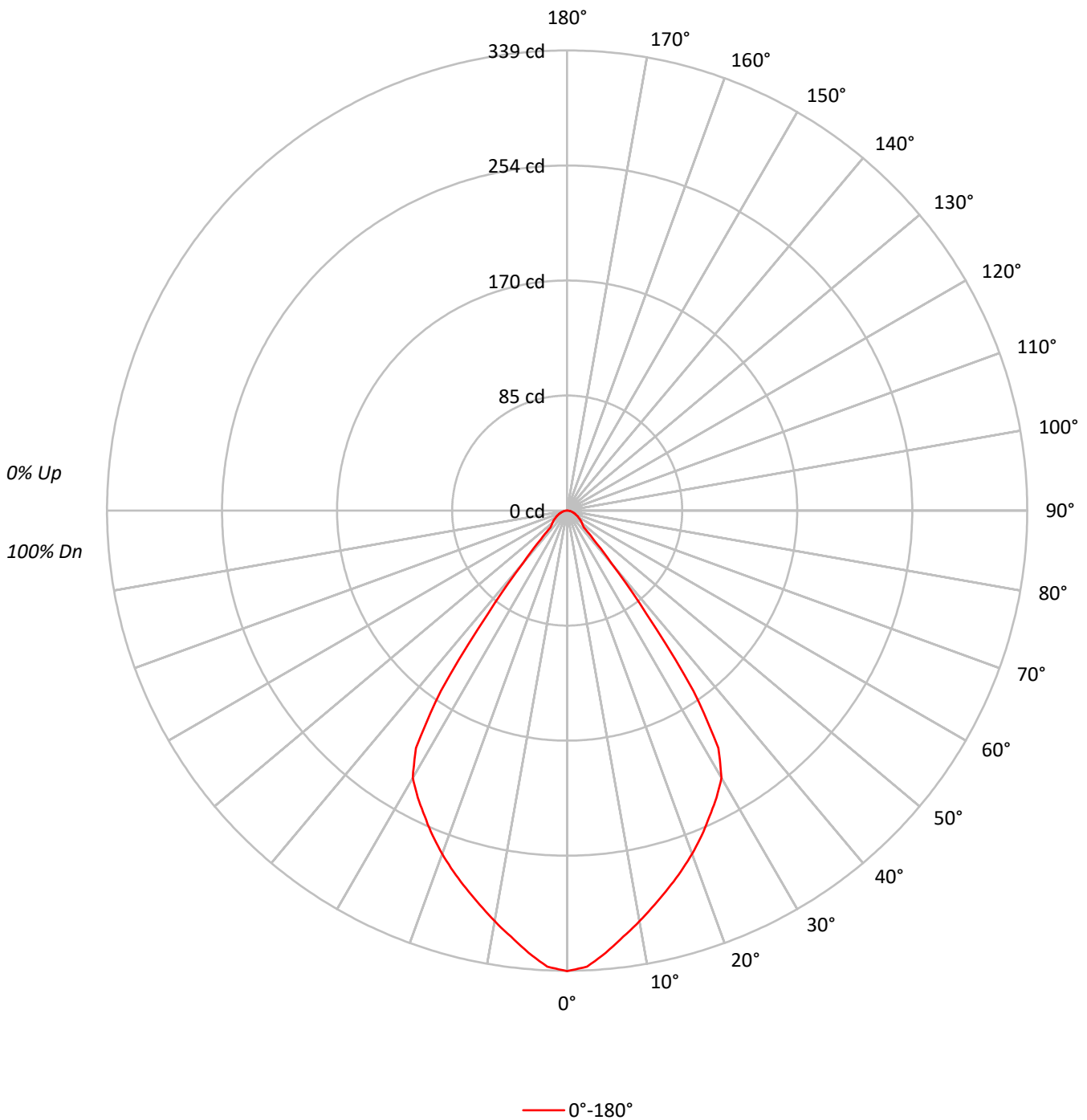
Lumens per Lamp: N/A
Luminaire Lumens: 359.4 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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: P866474

CATALOG NUMBER: PRLX-2004-M-930-07L-L-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866474

CATALOG NUMBER: PRLX-2004-M-930-07L-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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	51	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2699
5°	2611
10°	2482
15°	2372
20°	2278
25°	2181
30°	2089
35°	1575
40°	524
45°	195
50°	177
55°	161
60°	146
65°	134
70°	126
75°	120
80°	110
85°	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 195 cd/sqm

TEST NUMBER: P866474

CATALOG NUMBER: PRLX-2004-M-930-07L-L-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	8.5
10°-20°	81.1	22.6
20°-30°	114.5	31.8
30°-40°	92.5	25.7
40°-50°	17.7	4.9
50°-60°	10.5	2.9
60°-70°	7.1	2.0
70°-80°	4.1	1.2
80°-90°	1.3	0.4
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°	226.2	62.9
0°-40°	318.7	88.7
0°-60°	346.9	96.5
0°-90°	359.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	359.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	339	
5°	327	31
15°	288	81
25°	248	114
35°	162	93
45°	17	18
55°	12	10
65°	7	7
75°	4	4
85°	1	1
90°	0	

TEST NUMBER: P866474

CATALOG NUMBER: PRLX-2004-M-930-07L-L-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	339.3
2.5°	336.3
5°	326.9
7.5°	316.6
10°	307.2
12.5°	297.4
15°	288.0
17.5°	278.8
20°	269.1
22.5°	259.1
25°	248.4
27.5°	238.3
30°	227.4
32.5°	207.3
35°	162.2
37.5°	95.8
40°	50.5
42.5°	28.4
45°	17.3
47.5°	15.2
50°	14.3
52.5°	13.0
55°	11.6
57.5°	10.5
60°	9.2
62.5°	8.3
65°	7.1
67.5°	6.2
70°	5.4
72.5°	4.7
75°	3.9
77.5°	3.2
80°	2.4
82.5°	1.9
85°	1.1
87.5°	0.6
90°	0.0



TEST NUMBER: P866474
 CATALOG NUMBER: PRLX-2004-M-930-07L-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	0.41	1.46	0.77	1.77	2.09	0.41	1.46	0.77	1.77	2.09
	3H	1.87	2.79	2.25	3.13	3.49	1.87	2.79	2.25	3.13	3.49
	4H	2.47	3.33	2.87	3.68	4.07	2.47	3.33	2.87	3.68	4.07
	6H	2.92	3.71	3.34	4.08	4.48	2.92	3.71	3.34	4.08	4.48
	8H	3.09	3.83	3.53	4.22	4.63	3.09	3.83	3.53	4.22	4.63
	12H	3.19	3.90	3.63	4.29	4.72	3.19	3.90	3.63	4.29	4.72
4H	2H	0.82	1.68	1.23	2.04	2.43	0.82	1.68	1.23	2.04	2.43
	3H	2.52	3.22	2.93	3.63	4.04	2.52	3.22	2.93	3.63	4.04
	4H	3.25	3.88	3.69	4.30	4.75	3.25	3.88	3.69	4.30	4.75
	6H	3.84	4.38	4.31	4.83	5.30	3.84	4.38	4.31	4.83	5.30
	8H	4.06	4.56	4.53	5.01	5.48	4.06	4.56	4.53	5.01	5.48
	12H	4.21	4.64	4.70	5.13	5.61	4.21	4.64	4.70	5.13	5.61
8H	4H	3.47	3.98	3.95	4.43	4.90	3.47	3.98	3.95	4.43	4.90
	6H	4.20	4.60	4.71	5.10	5.59	4.20	4.60	4.71	5.10	5.59
	8H	4.51	4.87	5.04	5.39	5.89	4.51	4.87	5.04	5.39	5.89
	12H	4.75	5.06	5.28	5.56	6.14	4.75	5.06	5.28	5.56	6.14
12H	4H	3.48	3.91	3.97	4.40	4.88	3.48	3.91	3.97	4.40	4.88
	6H	4.24	4.60	4.77	5.12	5.61	4.24	4.60	4.77	5.12	5.61
	8H	4.62	4.93	5.14	5.43	6.00	4.62	4.93	5.14	5.43	6.00