

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: P867270

Luminaire Tested: PRLX-2004-L-930-32L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-930-32L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

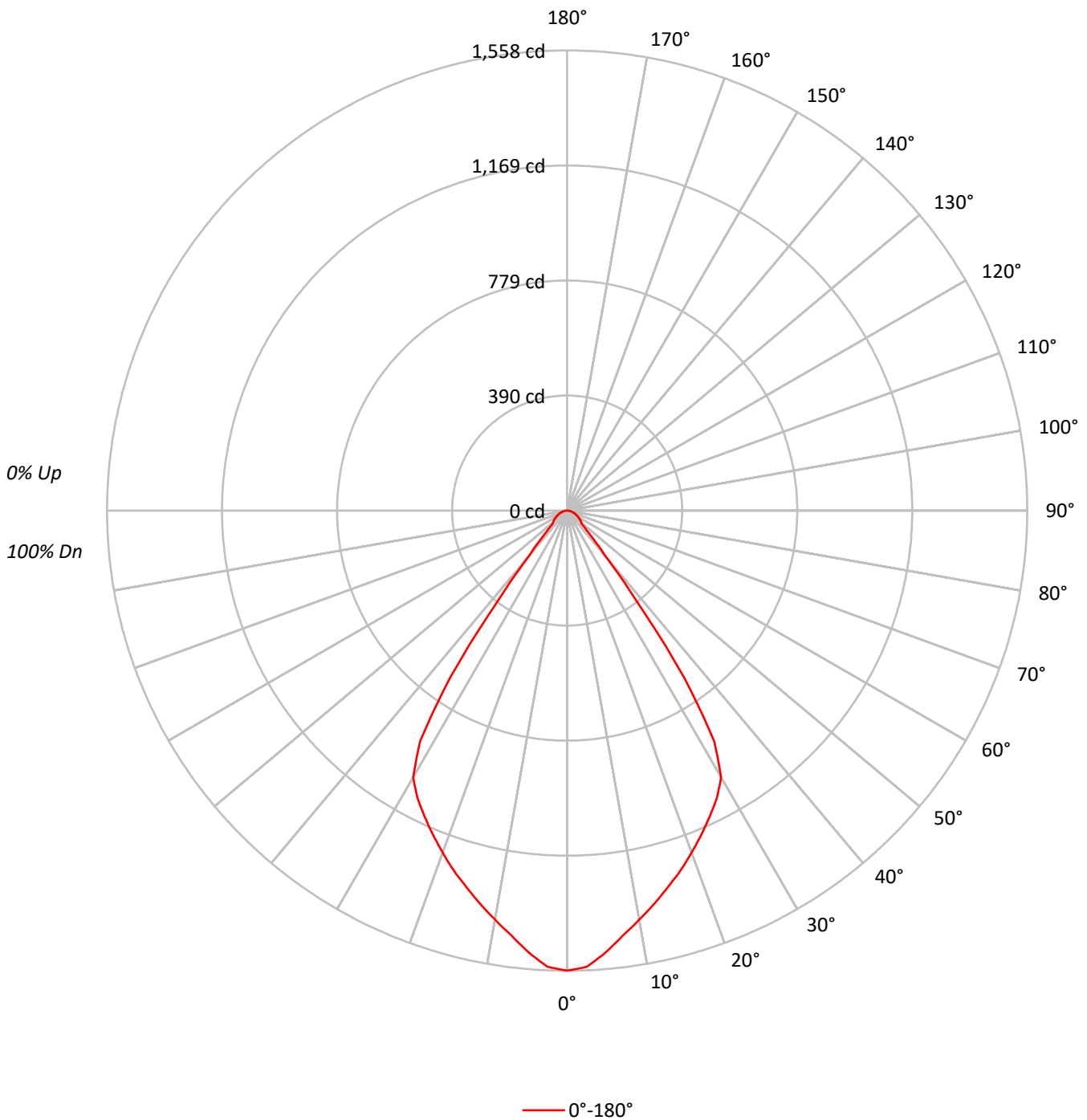
Lumens per Lamp: N/A
Luminaire Lumens: 1624.1 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
Input Voltage (V): 120
Input Current (Ain): 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: P867270

CATALOG NUMBER: PRLX-2004-L-930-32L-L-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P867270

CATALOG NUMBER: PRLX-2004-L-930-32L-L-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	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7684
5°	7434
10°	7045
15°	6740
20°	6472
25°	6220
30°	5939
35°	4160
40°	1309
45°	635
50°	474
55°	457
60°	425
65°	393
70°	366
75°	343
80°	321
85°	300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 635 cd/sqm

TEST NUMBER: P867270

CATALOG NUMBER: PRLX-2004-L-930-32L-L-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	8.6
10°-20°	371.7	22.9
20°-30°	525.7	32.4
30°-40°	400.3	24.6
40°-50°	80.5	5.0
50°-60°	47.2	2.9
60°-70°	33.6	2.1
70°-80°	19.2	1.2
80°-90°	5.9	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°	1037.5	63.9
0°-40°	1437.8	88.5
0°-60°	1565.5	96.4
0°-90°	1624.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1558	
5°	1501	140
15°	1320	372
25°	1142	526
35°	691	400
45°	91	80
55°	53	47
65°	34	34
75°	18	19
85°	5	6
90°	0	

TEST NUMBER: P867270

CATALOG NUMBER: PRLX-2004-L-930-32L-L-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1557.5
2.5°	1545.9
5°	1501.1
7.5°	1450.8
10°	1406.3
12.5°	1363.4
15°	1319.5
17.5°	1277.4
20°	1232.6
22.5°	1187.3
25°	1142.5
27.5°	1097.2
30°	1042.4
32.5°	926.6
35°	690.7
37.5°	381.8
40°	203.2
42.5°	134.4
45°	91.0
47.5°	65.5
50°	61.7
52.5°	57.8
55°	53.1
57.5°	47.8
60°	43.1
62.5°	38.2
65°	33.7
67.5°	29.6
70°	25.4
72.5°	21.6
75°	18.0
77.5°	14.7
80°	11.3
82.5°	8.3
85°	5.3
87.5°	2.5
90°	0.0

TEST NUMBER: P867270
 CATALOG NUMBER: PRLX-2004-L-930-32L-L-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	4.05	5.10	4.42	5.41	5.73	4.05	5.10	4.42	5.41	5.73
	3H	5.62	6.55	6.00	6.88	7.25	5.62	6.55	6.00	6.88	7.25
	4H	6.21	7.07	6.62	7.43	7.81	6.21	7.07	6.62	7.43	7.81
	6H	6.67	7.46	7.09	7.83	8.23	6.67	7.46	7.09	7.83	8.23
	8H	6.82	7.57	7.26	7.96	8.37	6.82	7.57	7.26	7.96	8.37
	12H	6.92	7.63	7.36	8.02	8.45	6.92	7.63	7.36	8.02	8.45
4H	2H	4.52	5.38	4.92	5.73	6.12	4.52	5.38	4.92	5.73	6.12
	3H	6.29	7.00	6.71	7.41	7.81	6.29	7.00	6.71	7.41	7.81
	4H	7.01	7.64	7.45	8.06	8.51	7.01	7.64	7.45	8.06	8.51
	6H	7.60	8.14	8.07	8.59	9.06	7.60	8.14	8.07	8.59	9.06
	8H	7.80	8.30	8.27	8.75	9.23	7.80	8.30	8.27	8.75	9.23
	12H	7.95	8.38	8.44	8.87	9.35	7.95	8.38	8.44	8.87	9.35
8H	4H	7.23	7.74	7.71	8.19	8.66	7.23	7.74	7.71	8.19	8.66
	6H	7.96	8.36	8.46	8.86	9.35	7.96	8.36	8.46	8.86	9.35
	8H	8.25	8.60	8.78	9.12	9.62	8.25	8.60	8.78	9.12	9.62
	12H	8.49	8.79	9.01	9.29	9.87	8.49	8.79	9.01	9.29	9.87
12H	4H	7.23	7.67	7.72	8.16	8.63	7.23	7.67	7.72	8.16	8.63
	6H	7.99	8.35	8.53	8.87	9.37	7.99	8.35	8.53	8.87	9.37
	8H	8.34	8.65	8.87	9.15	9.73	8.34	8.65	8.87	9.15	9.73