

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: P866493

Luminaire Tested: PRLX-2004-M-930-35L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-M-930-35L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

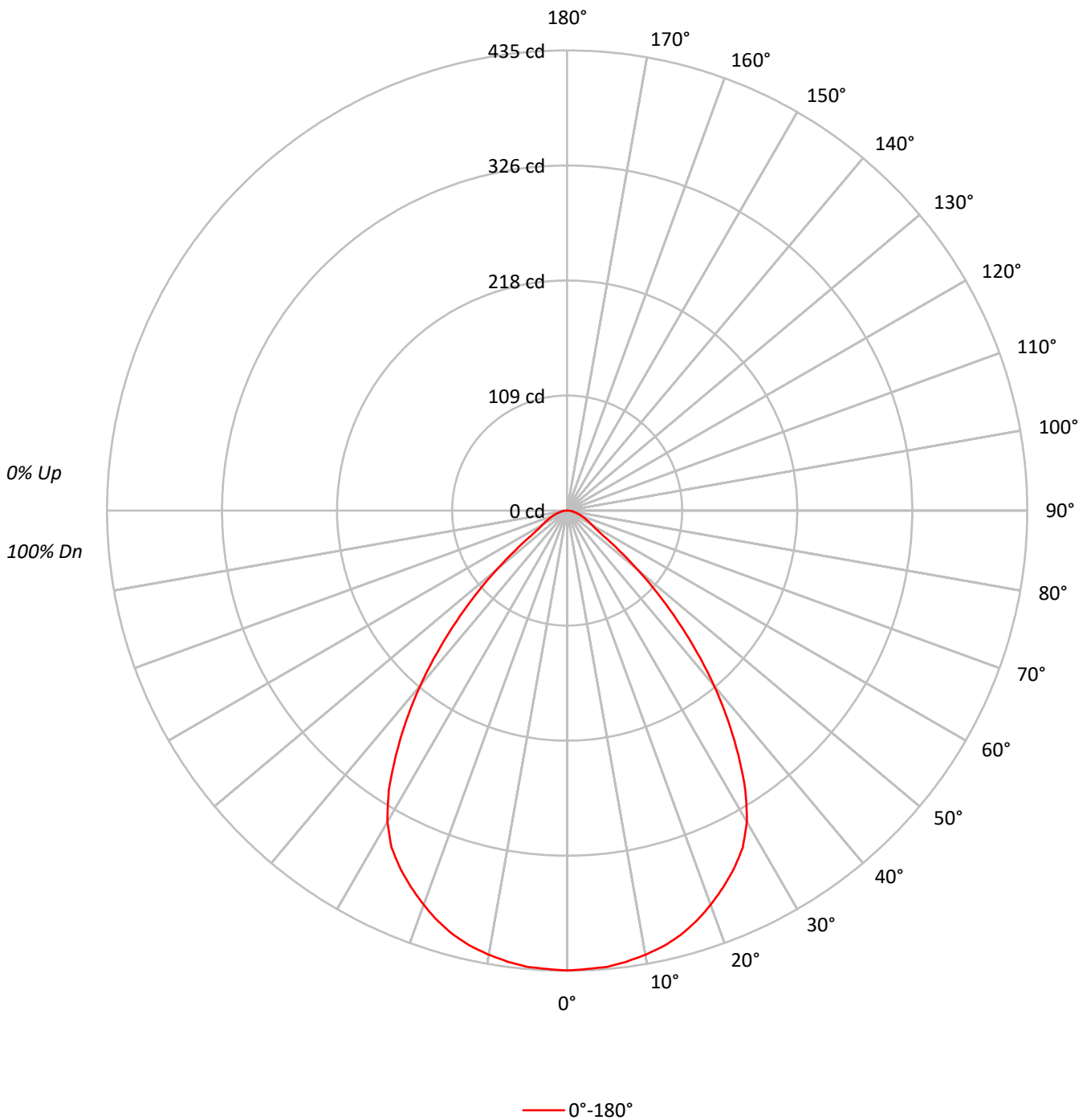
Lumens per Lamp: N/A
Luminaire Lumens: 694.1 lumens
Efficiency: N/A
Efficacy: 23.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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: P866493

CATALOG NUMBER: PRLX-2004-M-930-35L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866493

CATALOG NUMBER: PRLX-2004-M-930-35L-G-U-S-X-X-BRSS-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	103	109	106	103	101	102	100	98		98	97	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81	77	74	72
4	91	82	75	70	89	81	74	70	79	73	69		76	72	68		74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	57	78	68	61	56	67	61	56		65	60	56		64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51		60	55	51		59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	46		55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	63	51	44	40	62	51	44	40	50	44	40		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3458
5°	3457
10°	3444
15°	3420
20°	3358
25°	3277
30°	3122
35°	2740
40°	2243
45°	1665
50°	1072
55°	581
60°	430
65°	367
70°	326
75°	286
80°	257
85°	256

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1665 cd/sqm

TEST NUMBER: P866493

CATALOG NUMBER: PRLX-2004-M-930-35L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	5.9
10°-20°	116.9	16.8
20°-30°	171.2	24.7
30°-40°	174.9	25.2
40°-50°	114.3	16.5
50°-60°	42.5	6.1
60°-70°	19.8	2.9
70°-80°	10.2	1.5
80°-90°	3.3	0.5
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°	329.2	47.4
0°-40°	504.1	72.6
0°-60°	660.8	95.2
0°-90°	694.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	435	
5°	433	41
15°	415	117
25°	373	171
35°	282	175
45°	148	114
55°	42	42
65°	20	20
75°	9	10
85°	3	3
90°	0	

TEST NUMBER: P866493

CATALOG NUMBER: PRLX-2004-M-930-35L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	434.7
2.5°	433.8
5°	432.9
7.5°	430.1
10°	426.3
12.5°	421.7
15°	415.2
17.5°	406.8
20°	396.6
22.5°	385.4
25°	373.3
27.5°	359.3
30°	339.8
32.5°	313.7
35°	282.1
37.5°	249.5
40°	216.0
42.5°	181.5
45°	148.0
47.5°	116.4
50°	86.6
52.5°	61.4
55°	41.9
57.5°	31.6
60°	27.0
62.5°	23.3
65°	19.5
67.5°	16.8
70°	14.0
72.5°	12.1
75°	9.3
77.5°	7.4
80°	5.6
82.5°	4.7
85°	2.8
87.5°	1.9
90°	0.0



TEST NUMBER: P866493
 CATALOG NUMBER: PRLX-2004-M-930-35L-G-U-S-X-X-BRSS-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	5.50	6.76	5.87	7.08	7.39	5.50	6.76	5.87	7.08	7.39
	3H	6.71	7.82	7.09	8.15	8.51	6.71	7.82	7.09	8.15	8.51
	4H	7.15	8.18	7.55	8.53	8.91	7.15	8.18	7.55	8.53	8.91
	6H	7.45	8.40	7.87	8.77	9.17	7.45	8.40	7.87	8.77	9.17
	8H	7.58	8.48	8.01	8.87	9.28	7.58	8.48	8.01	8.87	9.28
	12H	7.67	8.53	8.10	8.91	9.34	7.67	8.53	8.10	8.91	9.34
4H	2H	5.87	6.91	6.28	7.26	7.64	5.87	6.91	6.28	7.26	7.64
	3H	7.30	8.14	7.71	8.54	8.95	7.30	8.14	7.71	8.54	8.95
	4H	7.84	8.59	8.28	9.01	9.46	7.84	8.59	8.28	9.01	9.46
	6H	8.26	8.91	8.72	9.35	9.82	8.26	8.91	8.72	9.35	9.82
	8H	8.44	9.05	8.91	9.49	9.96	8.44	9.05	8.91	9.49	9.96
	12H	8.58	9.11	9.07	9.59	10.07	8.58	9.11	9.07	9.59	10.07
8H	4H	8.00	8.61	8.47	9.05	9.53	8.00	8.61	8.47	9.05	9.53
	6H	8.53	9.03	9.04	9.52	10.01	8.53	9.03	9.04	9.52	10.01
	8H	8.80	9.25	9.33	9.76	10.26	8.80	9.25	9.33	9.76	10.26
	12H	9.03	9.42	9.54	9.91	10.49	9.03	9.42	9.54	9.91	10.49
12H	4H	8.00	8.53	8.48	9.01	9.49	8.00	8.53	8.48	9.01	9.49
	6H	8.56	9.00	9.08	9.52	10.01	8.56	9.00	9.08	9.52	10.01
	8H	8.89	9.28	9.41	9.78	10.35	8.89	9.28	9.41	9.78	10.35