

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: P865830

Luminaire Tested: PRLX-2004-S-935-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-935-15L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

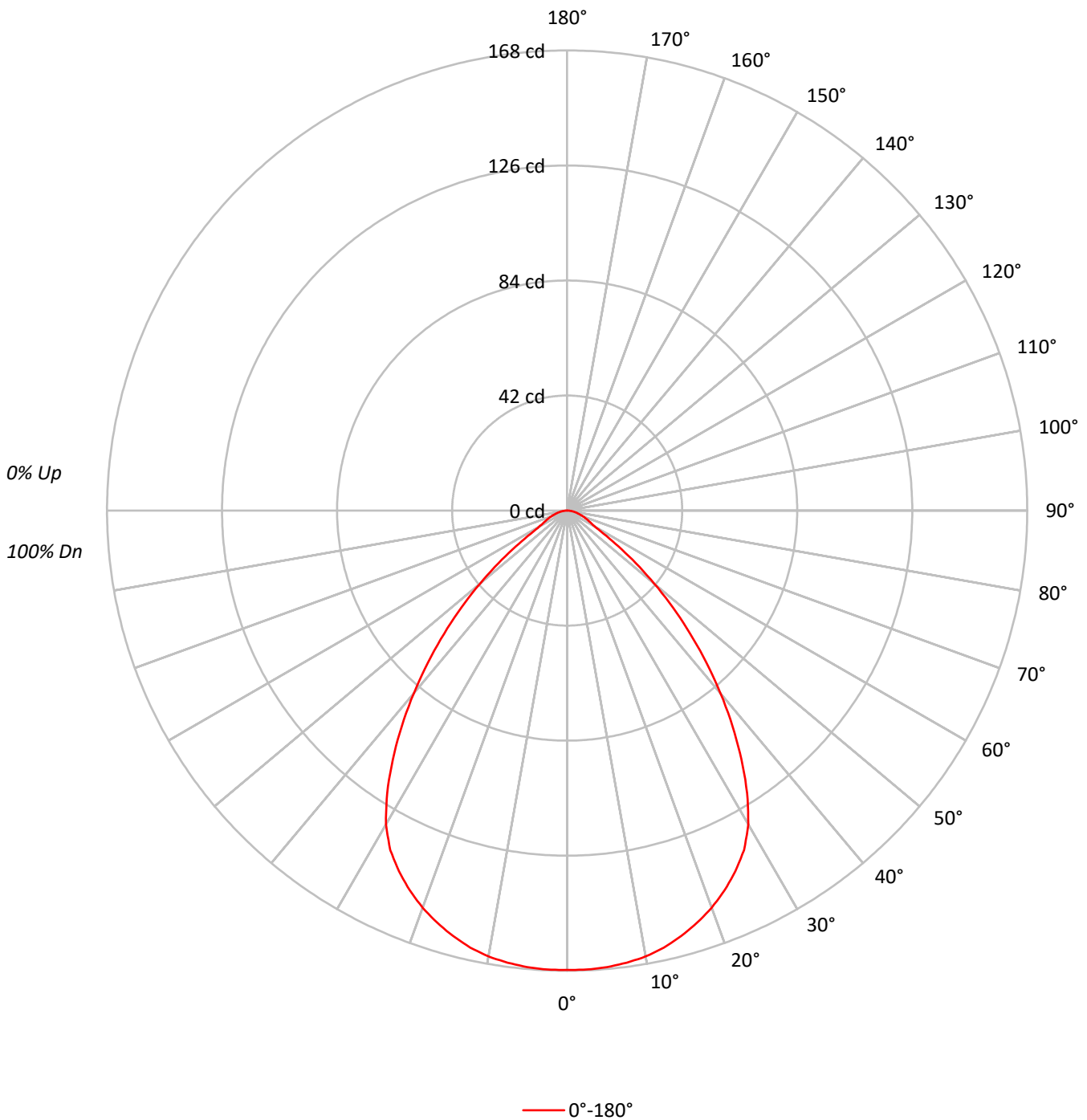
Lumens per Lamp: N/A
Luminaire Lumens: 281.4 lumens
Efficiency: N/A
Efficacy: 18.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865830

CATALOG NUMBER: PRLX-2004-S-935-15L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865830

CATALOG NUMBER: PRLX-2004-S-935-15L-G-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	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	72
4	91	81	74	69	89	80	74	68	78	72	68		76	71	67		74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61		70	64	60		68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55		64	59	54		63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58	53	49	47
8	70	58	51	46	68	57	51	46	56	50	45		55	49	45		54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2735
5°	2739
10°	2738
15°	2715
20°	2678
25°	2615
30°	2492
35°	2210
40°	1854
45°	1465
50°	1053
55°	648
60°	382
65°	324
70°	291
75°	258
80°	244
85°	225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1465 cd/sqm

TEST NUMBER: P865830

CATALOG NUMBER: PRLX-2004-S-935-15L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.9	5.7
10°-20°	45.3	16.1
20°-30°	66.7	23.7
30°-40°	68.9	24.5
40°-50°	49.0	17.4
50°-60°	21.4	7.6
60°-70°	8.5	3.0
70°-80°	4.4	1.6
80°-90°	1.3	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°	127.9	45.4
0°-40°	196.8	69.9
0°-60°	267.2	94.9
0°-90°	281.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	281.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	168	
5°	167	16
15°	161	45
25°	145	67
35°	111	69
45°	64	49
55°	23	21
65°	8	8
75°	4	4
85°	1	1
90°	0	

TEST NUMBER: P865830

CATALOG NUMBER: PRLX-2004-S-935-15L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	167.7
2.5°	167.7
5°	167.3
7.5°	166.5
10°	165.3
12.5°	163.4
15°	160.8
17.5°	157.8
20°	154.3
22.5°	150.1
25°	145.3
27.5°	139.8
30°	132.3
32.5°	122.3
35°	111.0
37.5°	99.2
40°	87.1
42.5°	75.2
45°	63.5
47.5°	52.4
50°	41.5
52.5°	31.6
55°	22.8
57.5°	15.7
60°	11.7
62.5°	9.8
65°	8.4
67.5°	7.2
70°	6.1
72.5°	5.0
75°	4.1
77.5°	3.4
80°	2.6
82.5°	1.9
85°	1.2
87.5°	0.5
90°	0.0

TEST NUMBER: P865830
 CATALOG NUMBER: PRLX-2004-S-935-15L-G-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	6.17	7.47	6.54	7.78	8.09	6.17	7.47	6.54	7.78	8.09
	3H	7.11	8.25	7.49	8.58	8.95	7.11	8.25	7.49	8.58	8.95
	4H	7.46	8.53	7.87	8.88	9.26	7.46	8.53	7.87	8.88	9.26
	6H	7.76	8.74	8.18	9.11	9.50	7.76	8.74	8.18	9.11	9.50
	8H	7.86	8.79	8.29	9.18	9.58	7.86	8.79	8.29	9.18	9.58
	12H	7.93	8.81	8.36	9.19	9.62	7.93	8.81	8.36	9.19	9.62
4H	2H	6.41	7.47	6.81	7.83	8.21	6.41	7.47	6.81	7.83	8.21
	3H	7.57	8.43	7.98	8.84	9.24	7.57	8.43	7.98	8.84	9.24
	4H	8.04	8.81	8.48	9.23	9.68	8.04	8.81	8.48	9.23	9.68
	6H	8.47	9.14	8.93	9.58	10.05	8.47	9.14	8.93	9.58	10.05
	8H	8.61	9.24	9.08	9.68	10.16	8.61	9.24	9.08	9.68	10.16
	12H	8.72	9.27	9.21	9.76	10.23	8.72	9.27	9.21	9.76	10.23
8H	4H	8.19	8.81	8.66	9.26	9.73	8.19	8.81	8.66	9.26	9.73
	6H	8.73	9.23	9.23	9.73	10.21	8.73	9.23	9.23	9.73	10.21
	8H	8.94	9.40	9.46	9.92	10.41	8.94	9.40	9.46	9.92	10.41
	12H	9.12	9.53	9.64	10.02	10.60	9.12	9.53	9.64	10.02	10.60
12H	4H	8.18	8.73	8.67	9.22	9.69	8.18	8.73	8.67	9.22	9.69
	6H	8.74	9.20	9.27	9.72	10.21	8.74	9.20	9.27	9.72	10.21
	8H	9.01	9.42	9.53	9.91	10.49	9.01	9.42	9.53	9.91	10.49