

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: P865828

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-14)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

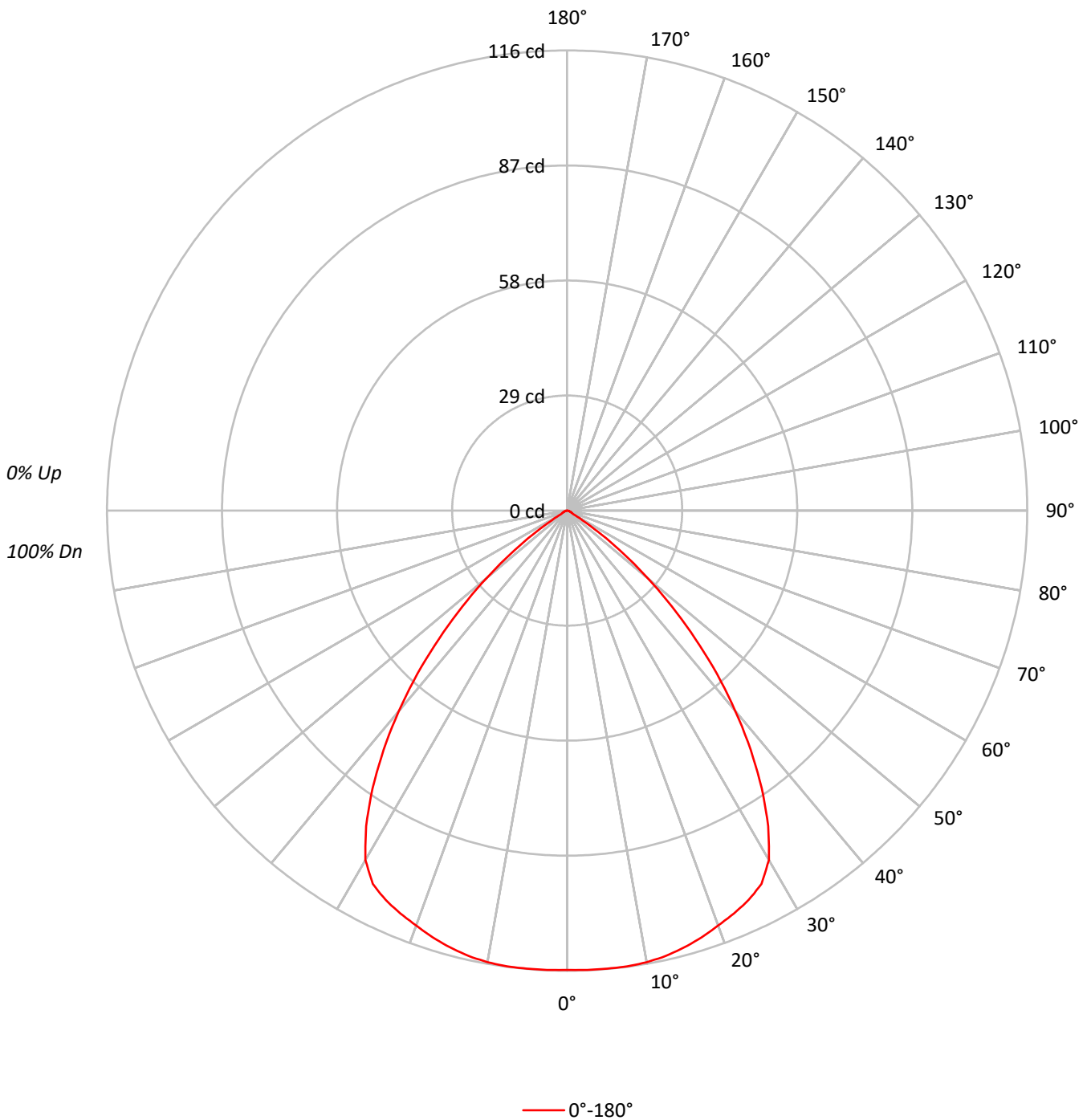
Lumens per Lamp: N/A
Luminaire Lumens: 193.5 lumens
Efficiency: N/A
Efficacy: 12.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.2
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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: P865828

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

Luminous Intensity Polar Plot





TEST NUMBER: P865828

CATALOG NUMBER: PRLX-2004-S-935-15L-G-U-S-X-X-BLAK-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	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1889
5°	1898
10°	1915
15°	1925
20°	1932
25°	1949
30°	1915
35°	1702
40°	1405
45°	1054
50°	672
55°	301
60°	62
65°	46
70°	38
75°	32
80°	38
85°	19

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1054 cd/sqm

TEST NUMBER: P865828

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	5.7
10°-20°	32.2	16.6
20°-30°	49.7	25.7
30°-40°	52.9	27.3
40°-50°	35.1	18.2
50°-60°	10.4	5.4
60°-70°	1.2	0.6
70°-80°	0.6	0.3
80°-90°	0.2	0.1
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°	93.0	48.1
0°-40°	145.9	75.4
0°-60°	191.5	99.0
0°-90°	193.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	193.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	116	
5°	116	11
15°	114	32
25°	108	50
35°	86	53
45°	46	35
55°	11	10
65°	1	1
75°	0	1
85°	0	0
90°	0	

TEST NUMBER: P865828

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	115.8
2.5°	115.9
5°	115.9
7.5°	115.9
10°	115.6
12.5°	115.0
15°	114.0
17.5°	112.8
20°	111.3
22.5°	109.9
25°	108.3
27.5°	106.1
30°	101.7
32.5°	94.3
35°	85.5
37.5°	76.0
40°	66.0
42.5°	55.9
45°	45.7
47.5°	35.8
50°	26.5
52.5°	18.1
55°	10.6
57.5°	4.6
60°	1.9
62.5°	1.4
65°	1.2
67.5°	1.0
70°	0.8
72.5°	0.7
75°	0.5
77.5°	0.4
80°	0.4
82.5°	0.3
85°	0.1
87.5°	0.1
90°	0.0



TEST NUMBER: P865828

CATALOG NUMBER: PRLX-2004-S-935-15L-G-U-S-X-X-BLAK-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	0.00	0.08	0.00	0.39	0.71	0.00	0.08	0.00	0.39	0.71
	3H	0.00	0.05	0.00	0.38	0.75	0.00	0.05	0.00	0.38	0.75
	4H	0.00	0.01	0.00	0.36	0.74	0.00	0.01	0.00	0.36	0.74
	6H	0.00	0.00	0.00	0.32	0.71	0.00	0.00	0.00	0.32	0.71
	8H	0.00	0.00	0.00	0.31	0.71	0.00	0.00	0.00	0.31	0.71
	12H	0.00	0.00	0.00	0.24	0.67	0.00	0.00	0.00	0.24	0.67
4H	2H	0.00	0.00	0.00	0.09	0.47	0.00	0.00	0.00	0.09	0.47
	3H	0.00	0.00	0.00	0.16	0.57	0.00	0.00	0.00	0.16	0.57
	4H	0.00	0.00	0.00	0.16	0.60	0.00	0.00	0.00	0.16	0.60
	6H	0.00	0.00	0.00	0.18	0.65	0.00	0.00	0.00	0.18	0.65
	8H	0.00	0.00	0.00	0.19	0.66	0.00	0.00	0.00	0.19	0.66
	12H	0.00	0.00	0.00	0.15	0.63	0.00	0.00	0.00	0.15	0.63
8H	4H	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.46
	6H	0.00	0.00	0.00	0.08	0.57	0.00	0.00	0.00	0.08	0.57
	8H	0.00	0.00	0.00	0.15	0.64	0.00	0.00	0.00	0.15	0.64
	12H	0.00	0.00	0.00	0.10	0.68	0.00	0.00	0.00	0.10	0.68
12H	4H	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.39
	6H	0.00	0.00	0.00	0.03	0.53	0.00	0.00	0.00	0.03	0.53
	8H	0.00	0.00	0.00	0.09	0.67	0.00	0.00	0.00	0.09	0.67