

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: P867331

Luminaire Tested: PRLX-2004-L-935-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-935-15L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

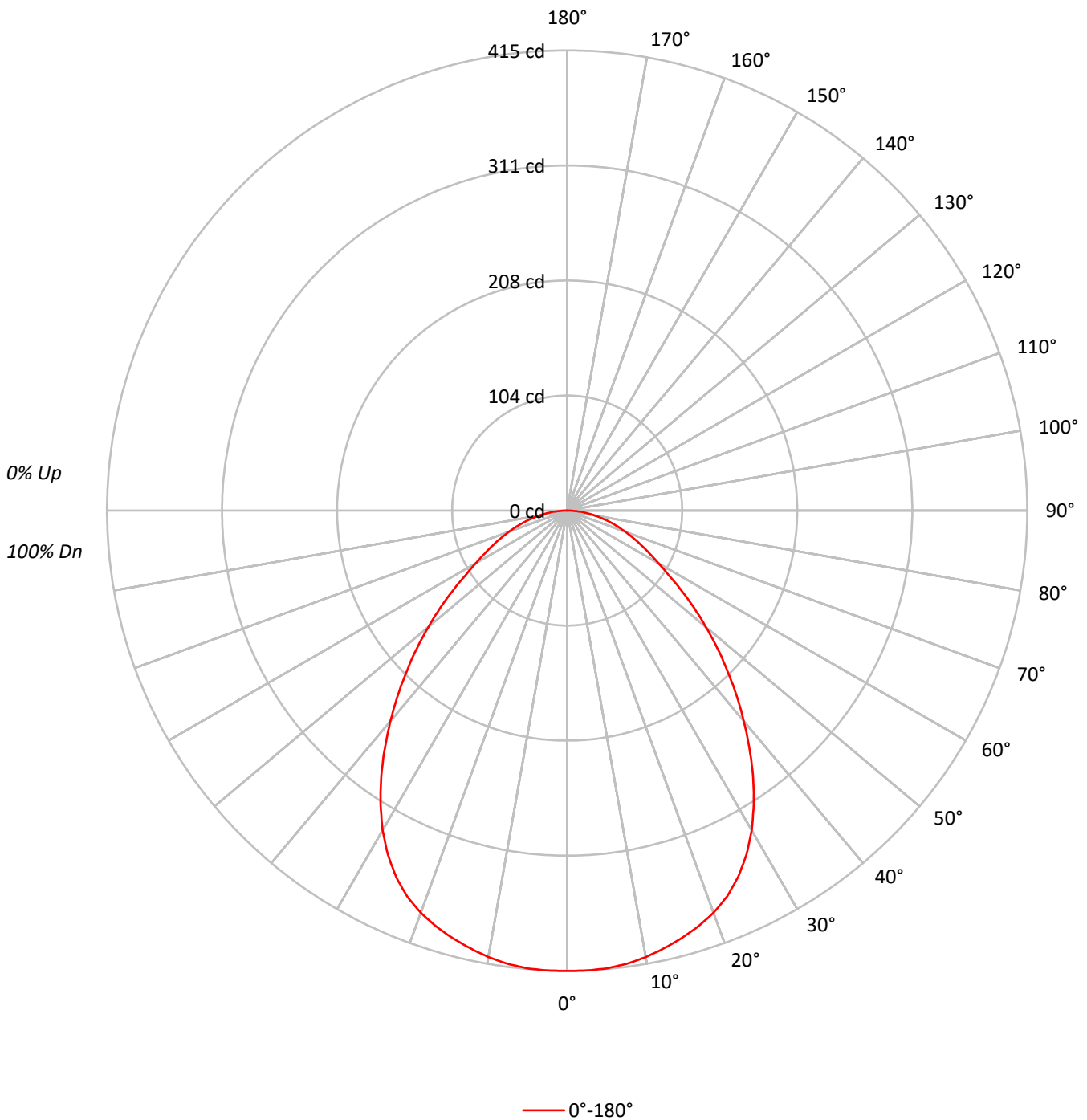
Lumens per Lamp: N/A
Luminaire Lumens: 901.4 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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: P867331

CATALOG NUMBER: PRLX-2004-L-935-15L-G-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P867331

CATALOG NUMBER: PRLX-2004-L-935-15L-G-X-X-WHHR-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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2049
5°	2052
10°	2049
15°	2039
20°	2027
25°	1985
30°	1896
35°	1760
40°	1597
45°	1426
50°	1253
55°	1082
60°	938
65°	862
70°	805
75°	755
80°	713
85°	674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1426 cd/sqm

TEST NUMBER: P867331

CATALOG NUMBER: PRLX-2004-L-935-15L-G-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	4.4
10°-20°	112.6	12.5
20°-30°	167.2	18.5
30°-40°	182.1	20.2
40°-50°	157.9	17.5
50°-60°	113.4	12.6
60°-70°	73.6	8.2
70°-80°	42.1	4.7
80°-90°	13.2	1.5
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°	319.2	35.4
0°-40°	501.3	55.6
0°-60°	772.6	85.7
0°-90°	901.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	901.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	415	
5°	414	39
15°	399	113
25°	365	167
35°	292	182
45°	204	158
55°	126	113
65°	74	74
75°	40	42
85°	12	13
90°	0	

TEST NUMBER: P867331

CATALOG NUMBER: PRLX-2004-L-935-15L-G-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	415.2
2.5°	415.2
5°	414.4
7.5°	412.2
10°	408.9
12.5°	404.3
15°	399.2
17.5°	393.2
20°	386.0
22.5°	376.7
25°	364.7
27.5°	350.1
30°	332.8
32.5°	313.2
35°	292.2
37.5°	270.1
40°	248.0
42.5°	226.2
45°	204.4
47.5°	183.8
50°	163.3
52.5°	144.4
55°	125.8
57.5°	109.0
60°	95.1
62.5°	83.8
65°	73.8
67.5°	64.4
70°	55.8
72.5°	47.4
75°	39.6
77.5°	32.2
80°	25.1
82.5°	18.3
85°	11.9
87.5°	5.8
90°	0.0

TEST NUMBER: P867331
 CATALOG NUMBER: PRLX-2004-L-935-15L-G-X-X-WHHR-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	11.24	12.74	11.61	13.06	13.37	11.24	12.74	11.61	13.06	13.37
	3H	12.76	14.10	13.14	14.43	14.79	12.76	14.10	13.14	14.43	14.79
	4H	13.36	14.62	13.76	14.97	15.35	13.36	14.62	13.76	14.97	15.35
	6H	13.83	15.00	14.25	15.37	15.76	13.83	15.00	14.25	15.37	15.76
	8H	14.00	15.11	14.43	15.50	15.90	14.00	15.11	14.43	15.50	15.90
	12H	14.13	15.19	14.56	15.57	16.00	14.13	15.19	14.56	15.57	16.00
4H	2H	11.75	13.01	12.15	13.36	13.73	11.75	13.01	12.15	13.36	13.73
	3H	13.50	14.55	13.91	14.95	15.35	13.50	14.55	13.91	14.95	15.35
	4H	14.23	15.18	14.67	15.59	16.03	14.23	15.18	14.67	15.59	16.03
	6H	14.85	15.67	15.31	16.11	16.58	14.85	15.67	15.31	16.11	16.58
	8H	15.07	15.84	15.54	16.29	16.75	15.07	15.84	15.54	16.29	16.75
	12H	15.25	15.93	15.73	16.41	16.88	15.25	15.93	15.73	16.41	16.88
8H	4H	14.51	15.28	14.97	15.72	16.19	14.51	15.28	14.97	15.72	16.19
	6H	15.26	15.90	15.76	16.39	16.86	15.26	15.90	15.76	16.39	16.86
	8H	15.56	16.14	16.08	16.65	17.13	15.56	16.14	16.08	16.65	17.13
	12H	15.83	16.33	16.34	16.83	17.39	15.83	16.33	16.34	16.83	17.39
12H	4H	14.54	15.22	15.02	15.70	16.17	14.54	15.22	15.02	15.70	16.17
	6H	15.31	15.89	15.83	16.40	16.89	15.31	15.89	15.83	16.40	16.89
	8H	15.68	16.19	16.19	16.68	17.25	15.68	16.19	16.19	16.68	17.25