

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: P867351

Luminaire Tested: PRLX-2004-L-935-67L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-935-67L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

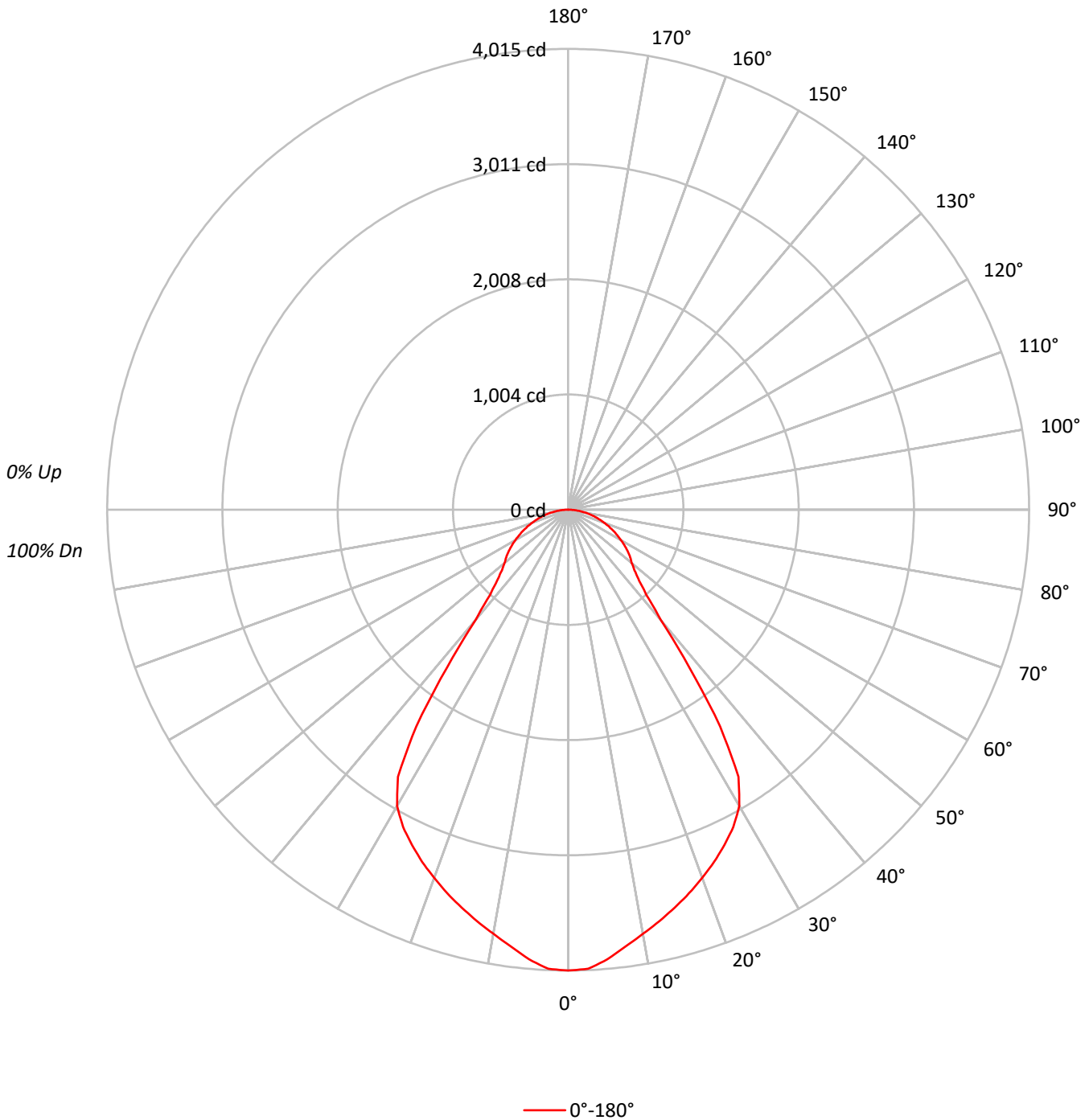
Lumens per Lamp: N/A
Luminaire Lumens: 6276.7 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: P867351

CATALOG NUMBER: PRLX-2004-L-935-67L-L-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P867351

CATALOG NUMBER: PRLX-2004-L-935-67L-L-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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19808
5°	19473
10°	18798
15°	18328
20°	17920
25°	17534
30°	16980
35°	13902
40°	8073
45°	6105
50°	5548
55°	5454
60°	5259
65°	5049
70°	4848
75°	4638
80°	4441
85°	4257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6105 cd/sqm

TEST NUMBER: P867351

CATALOG NUMBER: PRLX-2004-L-935-67L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	5.9
10°-20°	1011.8	16.1
20°-30°	1481.7	23.6
30°-40°	1377.6	21.9
40°-50°	701.9	11.2
50°-60°	564.6	9.0
60°-70°	428.7	6.8
70°-80°	258.2	4.1
80°-90°	83.0	1.3
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°	2862.7	45.6
0°-40°	4240.3	67.6
0°-60°	5506.8	87.7
0°-90°	6276.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6276.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4015	
5°	3932	369
15°	3588	1012
25°	3221	1482
35°	2308	1378
45°	875	702
55°	634	565
65°	432	429
75°	243	258
85°	75	83
90°	0	

TEST NUMBER: P867351

CATALOG NUMBER: PRLX-2004-L-935-67L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	4014.7
2.5°	4003.0
5°	3931.9
7.5°	3836.7
10°	3752.1
12.5°	3671.5
15°	3588.1
17.5°	3503.5
20°	3413.0
22.5°	3321.3
25°	3220.8
27.5°	3115.1
30°	2980.5
32.5°	2758.9
35°	2308.2
37.5°	1732.4
40°	1253.4
42.5°	1007.8
45°	875.0
47.5°	781.6
50°	722.8
52.5°	680.5
55°	634.1
57.5°	582.3
60°	533.0
62.5°	481.9
65°	432.5
67.5°	383.7
70°	336.1
72.5°	289.7
75°	243.3
77.5°	199.8
80°	156.3
82.5°	115.8
85°	75.2
87.5°	35.8
90°	0.0

TEST NUMBER: P867351

CATALOG NUMBER: PRLX-2004-L-935-67L-L-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	16.35	17.71	16.72	18.02	18.34	16.35	17.71	16.72	18.02	18.34
	3H	18.15	19.37	18.53	19.70	20.06	18.15	19.37	18.53	19.70	20.06
	4H	18.86	20.00	19.26	20.35	20.73	18.86	20.00	19.26	20.35	20.73
	6H	19.42	20.47	19.83	20.84	21.23	19.42	20.47	19.83	20.84	21.23
	8H	19.62	20.62	20.05	21.01	21.41	19.62	20.62	20.05	21.01	21.41
	12H	19.77	20.72	20.20	21.10	21.53	19.77	20.72	20.20	21.10	21.53
4H	2H	16.94	18.08	17.34	18.43	18.81	16.94	18.08	17.34	18.43	18.81
	3H	18.96	19.91	19.37	20.31	20.71	18.96	19.91	19.37	20.31	20.71
	4H	19.80	20.65	20.24	21.07	21.51	19.80	20.65	20.24	21.07	21.51
	6H	20.50	21.24	20.96	21.68	22.15	20.50	21.24	20.96	21.68	22.15
	8H	20.76	21.44	21.22	21.89	22.36	20.76	21.44	21.22	21.89	22.36
	12H	20.95	21.56	21.44	22.05	22.52	20.95	21.56	21.44	22.05	22.52
8H	4H	20.11	20.80	20.57	21.24	21.71	20.11	20.80	20.57	21.24	21.71
	6H	20.95	21.52	21.45	22.01	22.49	20.95	21.52	21.45	22.01	22.49
	8H	21.30	21.80	21.82	22.32	22.81	21.30	21.80	21.82	22.32	22.81
	12H	21.59	22.04	22.10	22.53	23.10	21.59	22.04	22.10	22.53	23.10
12H	4H	20.14	20.75	20.62	21.23	21.70	20.14	20.75	20.62	21.23	21.70
	6H	21.01	21.52	21.53	22.03	22.52	21.01	21.52	21.53	22.03	22.52
	8H	21.43	21.87	21.94	22.37	22.93	21.43	21.87	21.94	22.37	22.93