

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: P867300

Luminaire Tested: PRLX-2004-L-935-100L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-87)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-935-100L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

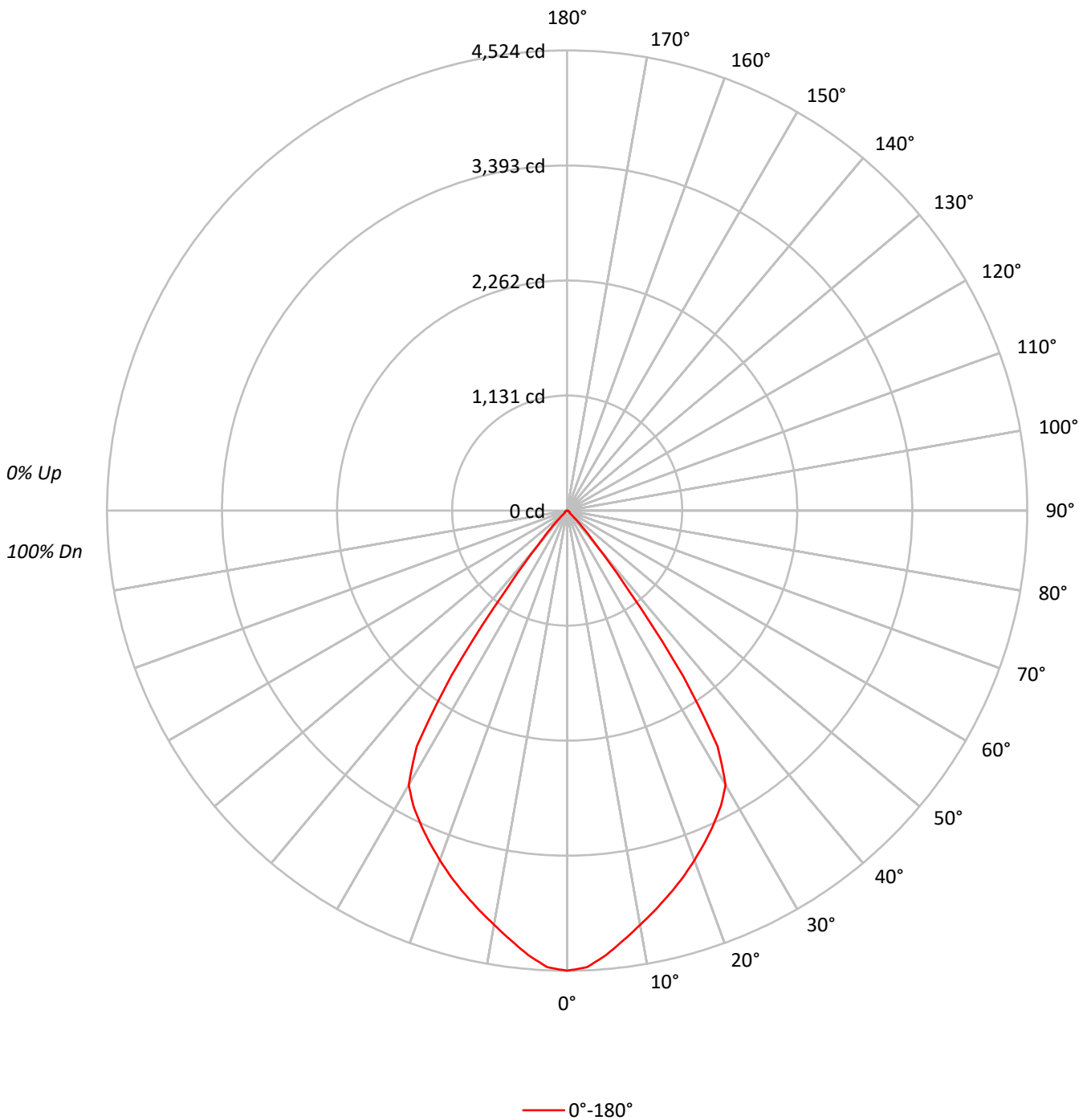
Lumens per Lamp: N/A
Luminaire Lumens: 4393.8 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867300

CATALOG NUMBER: PRLX-2004-L-935-100L-L-X-X-BLAK-X

Luminous Intensity Polar Plot





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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22318
5°	21725
10°	20715
15°	19920
20°	19210
25°	18538
30°	17743
35°	11970
40°	2887
45°	739
50°	259
55°	245
60°	228
65°	208
70°	192
75°	187
80°	176
85°	153

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 739 cd/sqm

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CATALOG NUMBER: PRLX-2004-L-935-100L-L-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.6	9.3
10°-20°	1098.4	25.0
20°-30°	1566.1	35.6
30°-40°	1146.0	26.1
40°-50°	116.1	2.6
50°-60°	25.4	0.6
60°-70°	17.7	0.4
70°-80°	10.3	0.2
80°-90°	3.3	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°	3075.0	70.0
0°-40°	4221.0	96.1
0°-60°	4362.5	99.3
0°-90°	4393.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4393.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4524	
5°	4386	411
15°	3900	1098
25°	3405	1566
35°	1987	1146
45°	106	116
55°	28	25
65°	18	18
75°	10	10
85°	3	3
90°	0	

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CATALOG NUMBER: PRLX-2004-L-935-100L-L-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	4523.5
2.5°	4492.4
5°	4386.5
7.5°	4258.4
10°	4134.8
12.5°	4017.3
15°	3899.9
17.5°	3781.6
20°	3658.8
22.5°	3531.6
25°	3405.3
27.5°	3272.8
30°	3114.4
32.5°	2750.6
35°	1987.3
37.5°	1010.6
40°	448.3
42.5°	237.5
45°	105.9
47.5°	37.4
50°	33.8
52.5°	31.1
55°	28.5
57.5°	25.8
60°	23.1
62.5°	20.5
65°	17.8
67.5°	15.1
70°	13.3
72.5°	11.6
75°	9.8
77.5°	8.0
80°	6.2
82.5°	4.4
85°	2.7
87.5°	1.8
90°	0.0

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.04	0.43	0.00	0.00	0.00	0.04	0.43
	8H	0.00	0.00	0.00	0.16	0.57	0.00	0.00	0.00	0.16	0.57
	12H	0.00	0.00	0.00	0.21	0.64	0.00	0.00	0.00	0.21	0.64
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.24	0.69	0.00	0.00	0.00	0.24	0.69
	6H	0.00	0.35	0.35	0.80	1.27	0.00	0.35	0.35	0.80	1.27
	8H	0.07	0.51	0.55	0.96	1.44	0.07	0.51	0.55	0.96	1.44
	12H	0.20	0.58	0.70	1.07	1.55	0.20	0.58	0.70	1.07	1.55
8H	4H	0.00	0.00	0.00	0.37	0.85	0.00	0.00	0.00	0.37	0.85
	6H	0.24	0.58	0.75	1.08	1.57	0.24	0.58	0.75	1.08	1.57
	8H	0.52	0.82	1.05	1.35	1.84	0.52	0.82	1.05	1.35	1.84
	12H	0.74	1.00	1.26	1.50	2.08	0.74	1.00	1.26	1.50	2.08
12H	4H	0.00	0.00	0.00	0.35	0.83	0.00	0.00	0.00	0.35	0.83
	6H	0.27	0.58	0.81	1.10	1.60	0.27	0.58	0.81	1.10	1.60
	8H	0.61	0.87	1.14	1.37	1.95	0.61	0.87	1.14	1.37	1.95