

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: P865827

Luminaire Tested: PRLX-2004-S-935-10L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-935-10L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

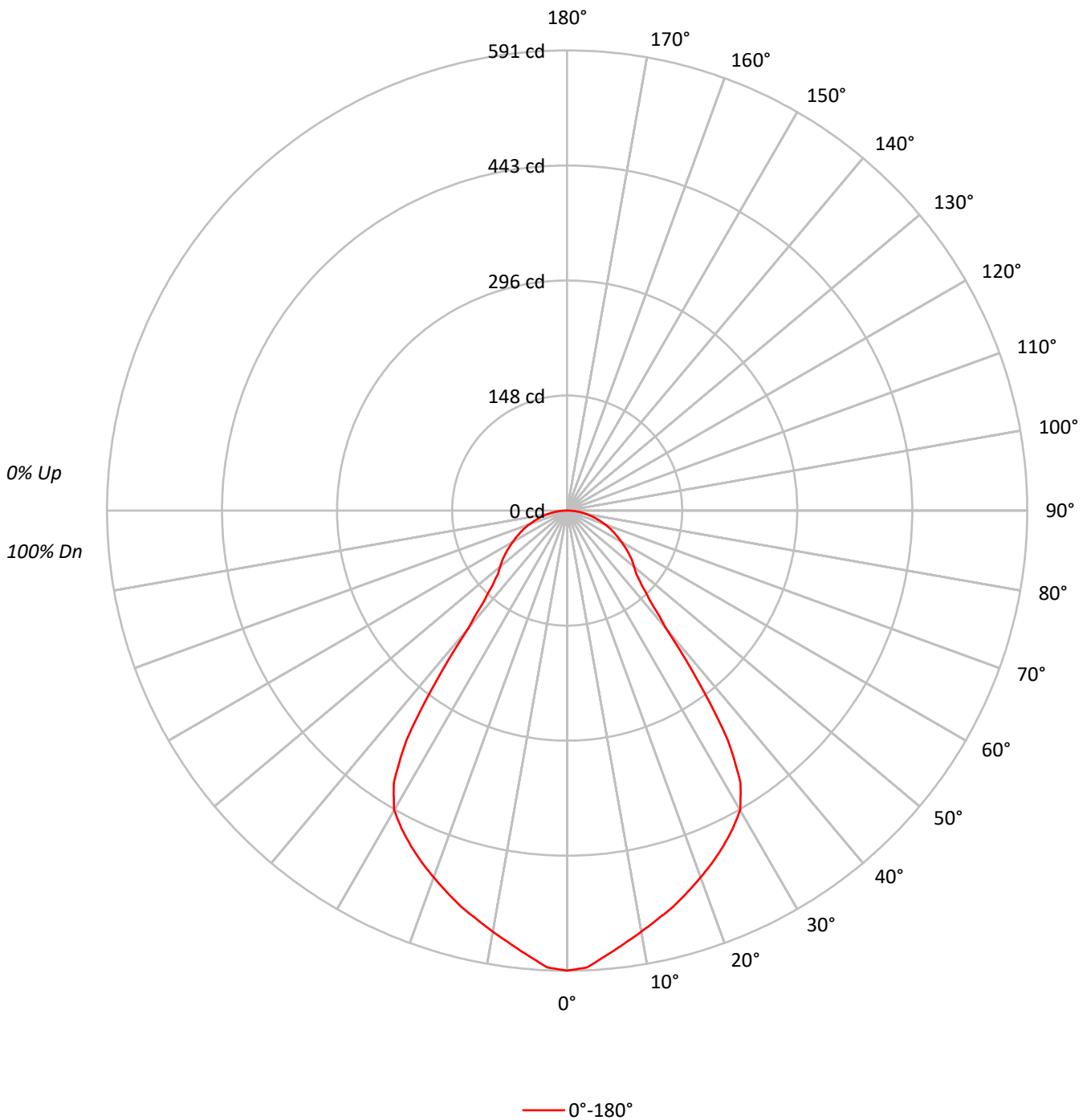
Lumens per Lamp: N/A
Luminaire Lumens: 947.2 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: P865827

CATALOG NUMBER: PRLX-2004-S-935-10L-L-U-S-X-X-WHHR-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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49
7	72	61	53	47	71	60	53	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9636
5°	9391
10°	9096
15°	8892
20°	8699
25°	8548
30°	8366
35°	7170
40°	4199
45°	3130
50°	2847
55°	2753
60°	2626
65°	2547
70°	2461
75°	2395
80°	2292
85°	2208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	5.7
10°-20°	148.4	15.7
20°-30°	218.7	23.1
30°-40°	212.2	22.4
40°-50°	109.3	11.5
50°-60°	86.5	9.1
60°-70°	65.4	6.9
70°-80°	39.9	4.2
80°-90°	12.9	1.4
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°	421.1	44.5
0°-40°	633.3	66.9
0°-60°	829.1	87.5
0°-90°	947.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	591	
5°	574	54
15°	527	148
25°	475	219
35°	360	212
45°	136	109
55°	97	86
65°	66	65
75°	38	40
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	590.8
2.5°	587.2
5°	573.6
7.5°	561.0
10°	549.2
12.5°	537.4
15°	526.6
17.5°	513.9
20°	501.2
22.5°	488.6
25°	475.0
27.5°	460.5
30°	444.2
32.5°	414.4
35°	360.1
37.5°	276.0
40°	197.2
42.5°	158.3
45°	135.7
47.5°	120.3
50°	112.2
52.5°	105.0
55°	96.8
57.5°	88.7
60°	80.5
62.5°	73.3
65°	66.0
67.5°	58.8
70°	51.6
72.5°	44.3
75°	38.0
77.5°	30.8
80°	24.4
82.5°	18.1
85°	11.8
87.5°	5.4
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	13.99	15.35	14.35	15.66	15.98	13.99	15.35	14.35	15.66	15.98
	3H	15.81	17.03	16.19	17.36	17.72	15.81	17.03	16.19	17.36	17.72
	4H	16.54	17.68	16.94	18.03	18.41	16.54	17.68	16.94	18.03	18.41
	6H	17.11	18.17	17.53	18.54	18.93	17.11	18.17	17.53	18.54	18.93
	8H	17.32	18.32	17.75	18.71	19.12	17.32	18.32	17.75	18.71	19.12
	12H	17.47	18.43	17.91	18.82	19.25	17.47	18.43	17.91	18.82	19.25
4H	2H	14.58	15.72	14.98	16.07	16.45	14.58	15.72	14.98	16.07	16.45
	3H	16.62	17.58	17.04	17.98	18.38	16.62	17.58	17.04	17.98	18.38
	4H	17.49	18.35	17.93	18.77	19.21	17.49	18.35	17.93	18.77	19.21
	6H	18.21	18.95	18.67	19.39	19.86	18.21	18.95	18.67	19.39	19.86
	8H	18.47	19.17	18.94	19.61	20.08	18.47	19.17	18.94	19.61	20.08
	12H	18.68	19.29	19.16	19.78	20.25	18.68	19.29	19.16	19.78	20.25
8H	4H	17.80	18.50	18.27	18.95	19.42	17.80	18.50	18.27	18.95	19.42
	6H	18.67	19.24	19.17	19.73	20.21	18.67	19.24	19.17	19.73	20.21
	8H	19.02	19.54	19.54	20.05	20.54	19.02	19.54	19.54	20.05	20.54
	12H	19.33	19.78	19.84	20.27	20.84	19.33	19.78	19.84	20.27	20.84
12H	4H	17.84	18.45	18.32	18.93	19.41	17.84	18.45	18.32	18.93	19.41
	6H	18.73	19.25	19.25	19.76	20.25	18.73	19.25	19.25	19.76	20.25
	8H	19.16	19.61	19.67	20.10	20.67	19.16	19.61	19.67	20.10	20.67