

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: P867303

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867303
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-935-100L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

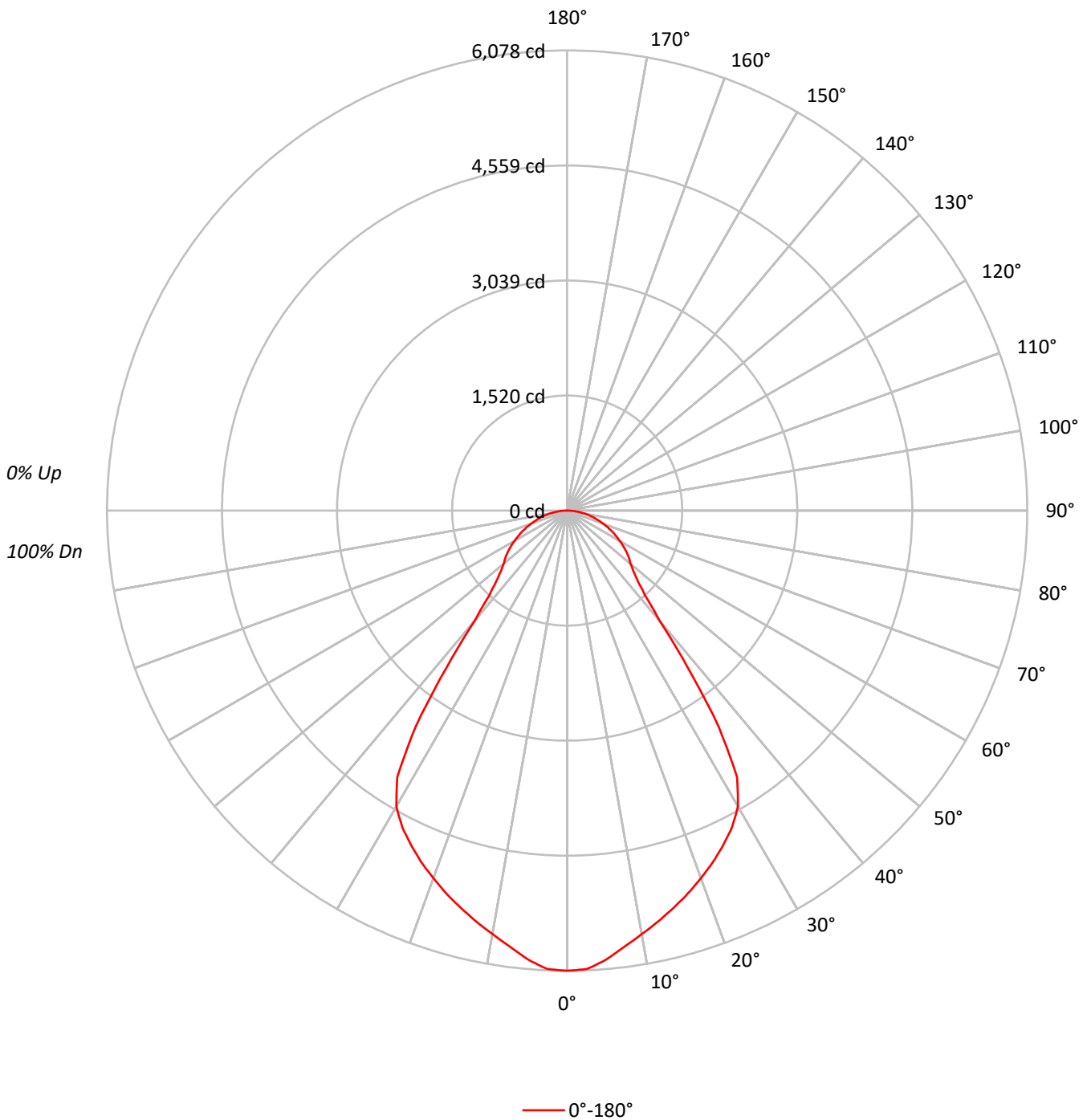
Lumens per Lamp: N/A
Luminaire Lumens: 9501.9 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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

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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	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°	29986
5°	29479
10°	28456
15°	27745
20°	27128
25°	26543
30°	25705
35°	21046
40°	12221
45°	9242
50°	8399
55°	8257
60°	7961
65°	7643
70°	7340
75°	7021
80°	6722
85°	6448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9242 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.0	5.9
10°-20°	1531.6	16.1
20°-30°	2243.0	23.6
30°-40°	2085.5	21.9
40°-50°	1062.5	11.2
50°-60°	854.8	9.0
60°-70°	649.0	6.8
70°-80°	390.9	4.1
80°-90°	125.6	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°	4333.6	45.6
0°-40°	6419.1	67.6
0°-60°	8336.4	87.7
0°-90°	9501.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9501.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6078	
5°	5952	559
15°	5432	1532
25°	4876	2243
35°	3494	2085
45°	1325	1062
55°	960	855
65°	655	649
75°	368	391
85°	114	126
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	6077.6
2.5°	6059.8
5°	5952.2
7.5°	5808.1
10°	5680.0
12.5°	5558.1
15°	5431.8
17.5°	5303.7
20°	5166.7
22.5°	5027.9
25°	4875.8
27.5°	4715.7
30°	4511.9
32.5°	4176.6
35°	3494.3
37.5°	2622.5
40°	1897.5
42.5°	1525.6
45°	1324.6
47.5°	1183.1
50°	1094.2
52.5°	1030.1
55°	959.9
57.5°	881.6
60°	806.8
62.5°	729.5
65°	654.7
67.5°	580.9
70°	508.8
72.5°	438.6
75°	368.3
77.5°	302.5
80°	236.6
82.5°	175.2
85°	113.9
87.5°	54.3
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	17.79	19.15	18.16	19.46	19.78	17.79	19.15	18.16	19.46	19.78
	3H	19.59	20.81	19.97	21.14	21.50	19.59	20.81	19.97	21.14	21.50
	4H	20.30	21.44	20.70	21.79	22.17	20.30	21.44	20.70	21.79	22.17
	6H	20.86	21.91	21.27	22.28	22.67	20.86	21.91	21.27	22.28	22.67
	8H	21.06	22.06	21.49	22.45	22.85	21.06	22.06	21.49	22.45	22.85
	12H	21.21	22.16	21.64	22.54	22.97	21.21	22.16	21.64	22.54	22.97
4H	2H	18.38	19.52	18.78	19.87	20.25	18.38	19.52	18.78	19.87	20.25
	3H	20.40	21.35	20.82	21.75	22.15	20.40	21.35	20.82	21.75	22.15
	4H	21.24	22.09	21.68	22.51	22.95	21.24	22.09	21.68	22.51	22.95
	6H	21.94	22.68	22.40	23.12	23.59	21.94	22.68	22.40	23.12	23.59
	8H	22.20	22.89	22.66	23.33	23.80	22.20	22.89	22.66	23.33	23.80
	12H	22.39	23.01	22.88	23.49	23.96	22.39	23.01	22.88	23.49	23.96
8H	4H	21.55	22.24	22.01	22.68	23.15	21.55	22.24	22.01	22.68	23.15
	6H	22.39	22.96	22.89	23.45	23.93	22.39	22.96	22.89	23.45	23.93
	8H	22.74	23.24	23.26	23.76	24.25	22.74	23.24	23.26	23.76	24.25
	12H	23.03	23.48	23.55	23.97	24.54	23.03	23.48	23.55	23.97	24.54
12H	4H	21.58	22.19	22.06	22.67	23.14	21.58	22.19	22.06	22.67	23.14
	6H	22.45	22.96	22.97	23.47	23.97	22.45	22.96	22.97	23.47	23.97
	8H	22.87	23.31	23.38	23.81	24.37	22.87	23.31	23.38	23.81	24.37