

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: P866663

Luminaire Tested: PRLX-2001-L-927-100L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-100L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

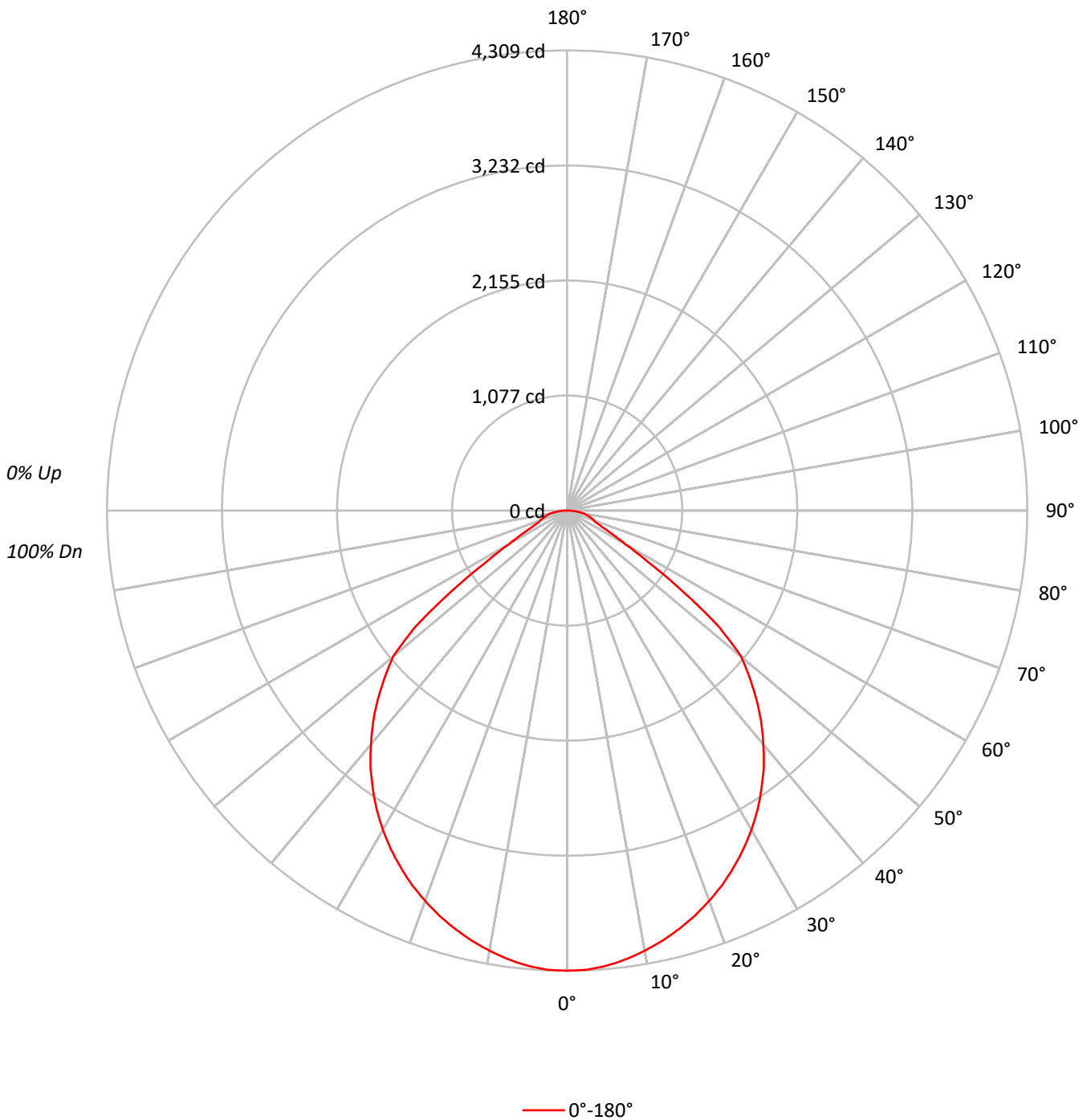
Lumens per Lamp: N/A
Luminaire Lumens: 9060.7 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.333 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	99	101	98	96	97	95	93	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	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23556
5°	23474
10°	23232
15°	22948
20°	22624
25°	22249
30°	21781
35°	21180
40°	20402
45°	19391
50°	18094
55°	12708
60°	6879
65°	4684
70°	4257
75°	4520
80°	4864
85°	5200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19391 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.4	4.5
10°-20°	1143.4	12.6
20°-30°	1698.3	18.7
30°-40°	1982.9	21.9
40°-50°	1930.2	21.3
50°-60°	1201.0	13.3
60°-70°	387.2	4.3
70°-80°	224.6	2.5
80°-90°	87.8	1.0
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°	3247.1	35.8
0°-40°	5230.0	57.7
0°-60°	8361.1	92.3
0°-90°	9060.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9060.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4309	
5°	4278	405
15°	4055	1143
25°	3688	1698
35°	3174	1983
45°	2508	1930
55°	1333	1201
65°	362	387
75°	214	225
85°	83	88
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4308.9
2.5°	4304.1
5°	4277.5
7.5°	4237.3
10°	4185.0
12.5°	4125.5
15°	4054.7
17.5°	3977.4
20°	3888.9
22.5°	3795.6
25°	3688.5
27.5°	3574.3
30°	3450.4
32.5°	3319.2
35°	3173.6
37.5°	3024.7
40°	2858.9
42.5°	2690.8
45°	2508.1
47.5°	2317.4
50°	2127.5
52.5°	1796.0
55°	1333.3
57.5°	908.5
60°	629.2
62.5°	469.9
65°	362.1
67.5°	289.7
70°	266.3
72.5°	240.6
75°	214.0
77.5°	185.9
80°	154.5
82.5°	120.7
85°	82.9
87.5°	41.8
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	18.28	19.73	18.65	20.05	20.36	18.28	19.73	18.65	20.05	20.36
	3H	18.76	20.05	19.14	20.38	20.74	18.76	20.05	19.14	20.38	20.74
	4H	19.08	20.28	19.48	20.63	21.01	19.08	20.28	19.48	20.63	21.01
	6H	19.43	20.54	19.85	20.91	21.30	19.43	20.54	19.85	20.91	21.30
	8H	19.59	20.64	20.01	21.03	21.43	19.59	20.64	20.01	21.03	21.43
	12H	19.71	20.72	20.14	21.10	21.53	19.71	20.72	20.14	21.10	21.53
4H	2H	18.36	19.56	18.76	19.91	20.29	18.36	19.56	18.76	19.91	20.29
	3H	19.06	20.04	19.47	20.44	20.84	19.06	20.04	19.47	20.44	20.84
	4H	19.53	20.41	19.96	20.82	21.26	19.53	20.41	19.96	20.82	21.26
	6H	20.05	20.82	20.51	21.26	21.72	20.05	20.82	20.51	21.26	21.72
	8H	20.28	21.00	20.75	21.44	21.91	20.28	21.00	20.75	21.44	21.91
	12H	20.48	21.12	20.97	21.60	22.07	20.48	21.12	20.97	21.60	22.07
8H	4H	19.69	20.41	20.16	20.85	21.32	19.69	20.41	20.16	20.85	21.32
	6H	20.36	20.95	20.86	21.45	21.93	20.36	20.95	20.86	21.45	21.93
	8H	20.69	21.22	21.20	21.73	22.22	20.69	21.22	21.20	21.73	22.22
	12H	20.99	21.47	21.50	21.96	22.53	20.99	21.47	21.50	21.96	22.53
12H	4H	19.71	20.35	20.19	20.83	21.30	19.71	20.35	20.19	20.83	21.30
	6H	20.41	20.95	20.93	21.46	21.95	20.41	20.95	20.93	21.46	21.95
	8H	20.80	21.28	21.31	21.77	22.34	20.80	21.28	21.31	21.77	22.34