

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: P866719

Luminaire Tested: PRLX-2001-L-927-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866719
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-927-83L-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 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

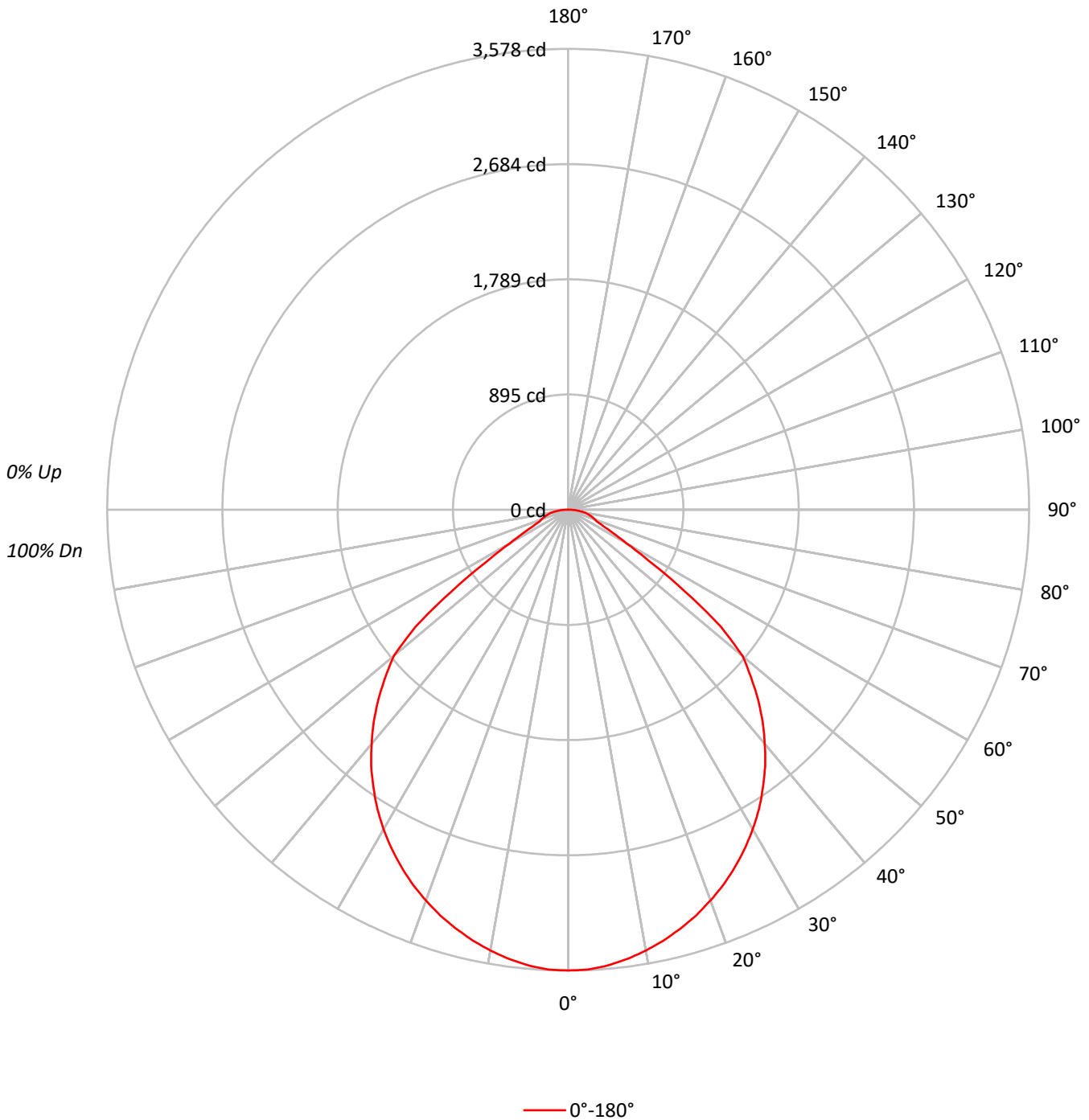
Lumens per Lamp: N/A
Luminaire Lumens: 7523.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: 0.333 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°	19559
5°	19490
10°	19289
15°	19053
20°	18785
25°	18474
30°	18084
35°	17585
40°	16940
45°	16100
50°	15023
55°	10551
60°	5713
65°	3888
70°	3534
75°	3753
80°	4039
85°	4315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.6	4.5
10°-20°	949.3	12.6
20°-30°	1410.1	18.7
30°-40°	1646.4	21.9
40°-50°	1602.6	21.3
50°-60°	997.2	13.3
60°-70°	321.5	4.3
70°-80°	186.5	2.5
80°-90°	72.9	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°	2696.0	35.8
0°-40°	4342.4	57.7
0°-60°	6942.2	92.3
0°-90°	7523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7523.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3578	
5°	3552	337
15°	3366	949
25°	3063	1410
35°	2635	1646
45°	2082	1603
55°	1107	997
65°	301	321
75°	178	186
85°	69	73
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3577.7
2.5°	3573.6
5°	3551.6
7.5°	3518.2
10°	3474.8
12.5°	3425.3
15°	3366.5
17.5°	3302.4
20°	3228.9
22.5°	3151.4
25°	3062.6
27.5°	2967.7
30°	2864.8
32.5°	2755.9
35°	2635.0
37.5°	2511.4
40°	2373.7
42.5°	2234.1
45°	2082.5
47.5°	1924.1
50°	1766.4
52.5°	1491.2
55°	1107.0
57.5°	754.3
60°	522.5
62.5°	390.2
65°	300.6
67.5°	240.5
70°	221.1
72.5°	199.8
75°	177.7
77.5°	154.3
80°	128.3
82.5°	100.2
85°	68.8
87.5°	34.7
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	17.64	19.09	18.00	19.40	19.72	17.64	19.09	18.00	19.40	19.72
	3H	18.11	19.40	18.49	19.73	20.09	18.11	19.40	18.49	19.73	20.09
	4H	18.44	19.64	18.84	19.99	20.37	18.44	19.64	18.84	19.99	20.37
	6H	18.79	19.89	19.20	20.26	20.65	18.79	19.89	19.20	20.26	20.65
	8H	18.94	19.99	19.37	20.38	20.78	18.94	19.99	19.37	20.38	20.78
	12H	19.07	20.07	19.50	20.45	20.88	19.07	20.07	19.50	20.45	20.88
4H	2H	17.72	18.92	18.12	19.27	19.65	17.72	18.92	18.12	19.27	19.65
	3H	18.41	19.39	18.82	19.79	20.20	18.41	19.39	18.82	19.79	20.20
	4H	18.88	19.76	19.31	20.18	20.62	18.88	19.76	19.31	20.18	20.62
	6H	19.41	20.17	19.87	20.61	21.08	19.41	20.17	19.87	20.61	21.08
	8H	19.64	20.35	20.10	20.79	21.26	19.64	20.35	20.10	20.79	21.26
	12H	19.84	20.47	20.32	20.95	21.43	19.84	20.47	20.32	20.95	21.43
8H	4H	19.05	19.76	19.51	20.20	20.67	19.05	19.76	19.51	20.20	20.67
	6H	19.72	20.31	20.21	20.80	21.28	19.72	20.31	20.21	20.80	21.28
	8H	20.04	20.58	20.56	21.09	21.58	20.04	20.58	20.56	21.09	21.58
	12H	20.34	20.82	20.86	21.32	21.88	20.34	20.82	20.86	21.32	21.88
12H	4H	19.06	19.70	19.55	20.18	20.65	19.06	19.70	19.55	20.18	20.65
	6H	19.76	20.30	20.28	20.81	21.30	19.76	20.30	20.28	20.81	21.30
	8H	20.16	20.64	20.67	21.13	21.70	20.16	20.64	20.67	21.13	21.70