

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: P866735

Luminaire Tested: PRLX-2001-L-930-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866735
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-930-117L-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 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

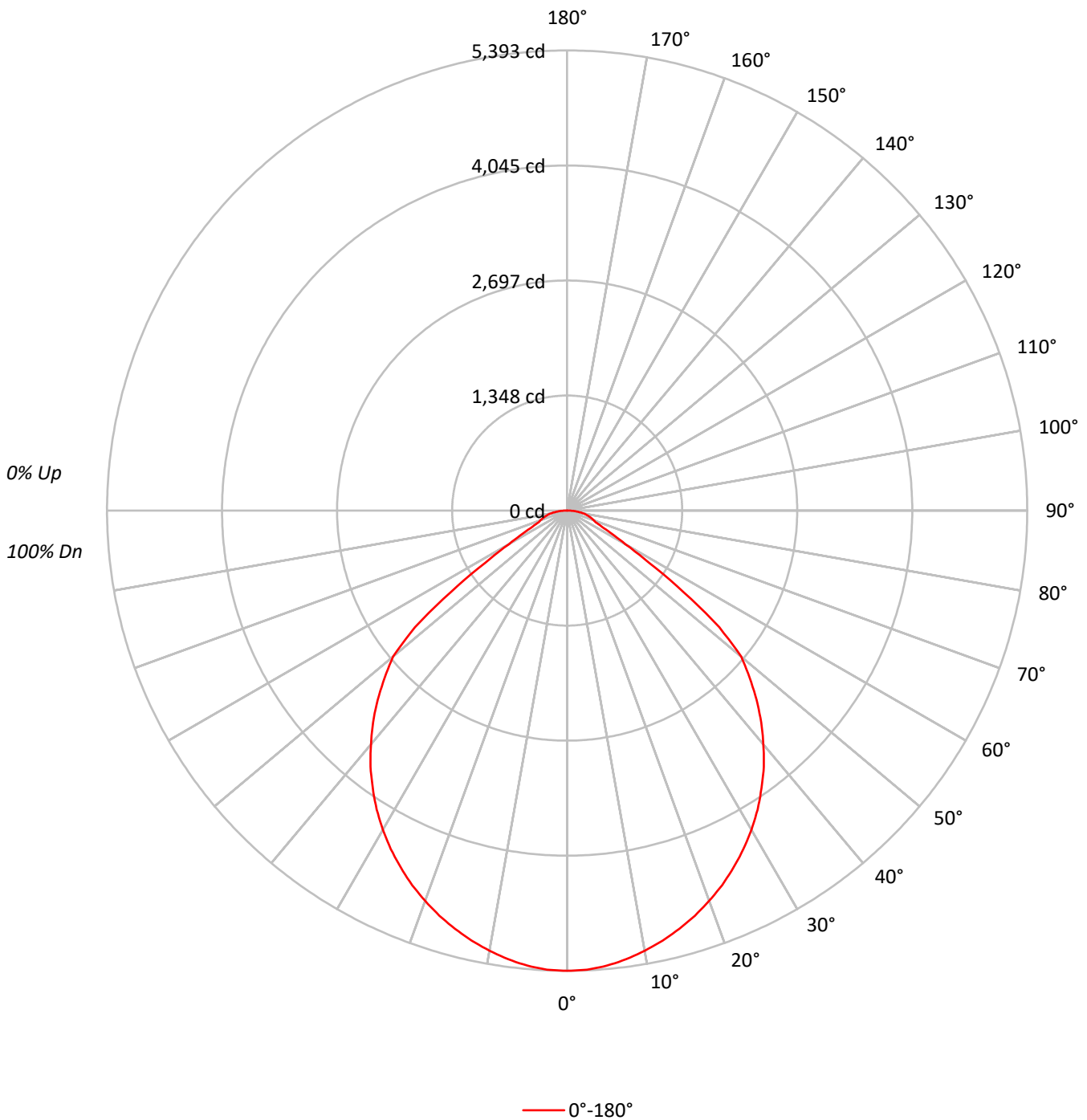
Lumens per Lamp: N/A
Luminaire Lumens: 11340.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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°	29482
5°	29379
10°	29076
15°	28721
20°	28316
25°	27846
30°	27260
35°	26508
40°	25535
45°	24269
50°	22646
55°	15905
60°	8610
65°	5862
70°	5327
75°	5659
80°	6089
85°	6505

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24269 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.3	4.5
10°-20°	1431.0	12.6
20°-30°	2125.5	18.7
30°-40°	2481.8	21.9
40°-50°	2415.7	21.3
50°-60°	1503.1	13.3
60°-70°	484.5	4.3
70°-80°	281.1	2.5
80°-90°	109.9	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°	4063.9	35.8
0°-40°	6545.6	57.7
0°-60°	10464.5	92.3
0°-90°	11340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11340.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5393	
5°	5354	507
15°	5075	1431
25°	4616	2126
35°	3972	2482
45°	3139	2416
55°	1669	1503
65°	453	485
75°	268	281
85°	104	110
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5392.9
2.5°	5386.9
5°	5353.6
7.5°	5303.3
10°	5237.8
12.5°	5163.3
15°	5074.7
17.5°	4978.0
20°	4867.2
22.5°	4750.4
25°	4616.4
27.5°	4473.4
30°	4318.3
32.5°	4154.2
35°	3971.9
37.5°	3785.6
40°	3578.1
42.5°	3367.7
45°	3139.1
47.5°	2900.4
50°	2662.7
52.5°	2247.8
55°	1668.7
57.5°	1137.0
60°	787.5
62.5°	588.1
65°	453.2
67.5°	362.5
70°	333.3
72.5°	301.1
75°	267.9
77.5°	232.6
80°	193.4
82.5°	151.1
85°	103.7
87.5°	52.4
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	19.06	20.51	19.43	20.83	21.14	19.06	20.51	19.43	20.83	21.14
	3H	19.54	20.83	19.92	21.16	21.52	19.54	20.83	19.92	21.16	21.52
	4H	19.86	21.06	20.26	21.41	21.79	19.86	21.06	20.26	21.41	21.79
	6H	20.21	21.32	20.62	21.69	22.08	20.21	21.32	20.62	21.69	22.08
	8H	20.37	21.42	20.79	21.81	22.21	20.37	21.42	20.79	21.81	22.21
	12H	20.49	21.50	20.92	21.88	22.31	20.49	21.50	20.92	21.88	22.31
4H	2H	19.14	20.34	19.54	20.69	21.07	19.14	20.34	19.54	20.69	21.07
	3H	19.84	20.82	20.25	21.22	21.62	19.84	20.82	20.25	21.22	21.62
	4H	20.31	21.19	20.74	21.60	22.04	20.31	21.19	20.74	21.60	22.04
	6H	20.83	21.60	21.29	22.04	22.50	20.83	21.60	21.29	22.04	22.50
	8H	21.06	21.78	21.53	22.22	22.69	21.06	21.78	21.53	22.22	22.69
	12H	21.26	21.90	21.75	22.38	22.85	21.26	21.90	21.75	22.38	22.85
8H	4H	20.47	21.18	20.94	21.63	22.10	20.47	21.18	20.94	21.63	22.10
	6H	21.14	21.73	21.64	22.23	22.71	21.14	21.73	21.64	22.23	22.71
	8H	21.47	22.00	21.98	22.51	23.00	21.47	22.00	21.98	22.51	23.00
	12H	21.77	22.25	22.28	22.74	23.31	21.77	22.25	22.28	22.74	23.31
12H	4H	20.49	21.12	20.97	21.61	22.08	20.49	21.12	20.97	21.61	22.08
	6H	21.19	21.73	21.71	22.24	22.73	21.19	21.73	21.71	22.24	22.73
	8H	21.58	22.06	22.09	22.55	23.12	21.58	22.06	22.09	22.55	23.12