

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: P866999

Luminaire Tested: PRLX-2002-L-930-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-133L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

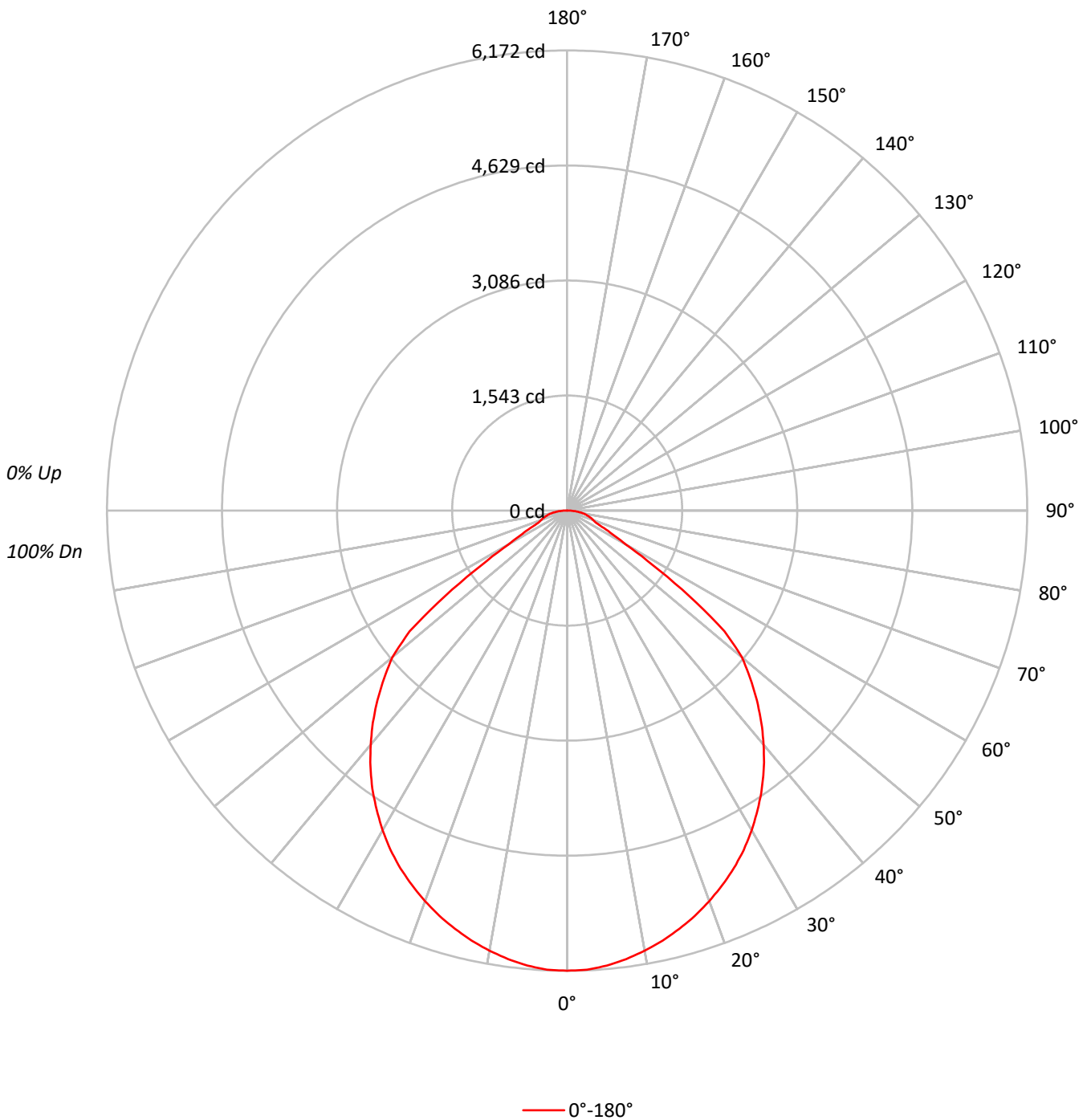
Lumens per Lamp: N/A
Luminaire Lumens: 13037.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	69	64	85	76	69	63	73	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	54		63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44		54	48	43		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	36		45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30451
5°	30339
10°	30025
15°	29664
20°	29263
25°	28809
30°	28198
35°	27429
40°	26404
45°	25097
50°	23483
55°	17200
60°	8989
65°	5991
70°	5356
75°	5694
80°	6225
85°	6855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25097 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.5	4.5
10°-20°	1638.0	12.6
20°-30°	2435.8	18.7
30°-40°	2843.3	21.8
40°-50°	2770.0	21.2
50°-60°	1774.6	13.6
60°-70°	552.6	4.2
70°-80°	314.8	2.4
80°-90°	127.4	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°	4654.3	35.7
0°-40°	7497.5	57.5
0°-60°	12042.2	92.4
0°-90°	13037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13037.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6172	
5°	6126	580
15°	5808	1638
25°	5292	2436
35°	4554	2843
45°	3597	2770
55°	2000	1775
65°	513	553
75°	299	315
85°	121	127
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	6171.9
2.5°	6162.7
5°	6125.8
7.5°	6068.1
10°	5993.1
12.5°	5909.0
15°	5807.5
17.5°	5699.1
20°	5573.4
22.5°	5438.5
25°	5292.0
27.5°	5130.6
30°	4949.5
32.5°	4756.9
35°	4554.0
37.5°	4334.8
40°	4099.6
42.5°	3856.3
45°	3596.8
47.5°	3331.6
50°	3059.4
52.5°	2662.7
55°	1999.6
57.5°	1353.8
60°	911.0
62.5°	679.2
65°	513.2
67.5°	407.1
70°	371.3
72.5°	337.9
75°	298.7
77.5°	260.6
80°	219.1
82.5°	173.0
85°	121.1
87.5°	64.6
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	19.42	20.87	19.78	21.19	21.50	19.42	20.87	19.78	21.19	21.50
	3H	19.83	21.13	20.21	21.45	21.82	19.83	21.13	20.21	21.45	21.82
	4H	20.12	21.32	20.52	21.67	22.05	20.12	21.32	20.52	21.67	22.05
	6H	20.44	21.55	20.85	21.91	22.31	20.44	21.55	20.85	21.91	22.31
	8H	20.58	21.64	21.01	22.03	22.43	20.58	21.64	21.01	22.03	22.43
	12H	20.71	21.72	21.14	22.10	22.53	20.71	21.72	21.14	22.10	22.53
4H	2H	19.48	20.68	19.88	21.03	21.41	19.48	20.68	19.88	21.03	21.41
	3H	20.09	21.08	20.50	21.48	21.88	20.09	21.08	20.50	21.48	21.88
	4H	20.52	21.40	20.95	21.81	22.25	20.52	21.40	20.95	21.81	22.25
	6H	21.01	21.77	21.47	22.21	22.68	21.01	21.77	21.47	22.21	22.68
	8H	21.23	21.94	21.70	22.39	22.86	21.23	21.94	21.70	22.39	22.86
	12H	21.43	22.07	21.91	22.55	23.02	21.43	22.07	21.91	22.55	23.02
8H	4H	20.66	21.37	21.13	21.82	22.29	20.66	21.37	21.13	21.82	22.29
	6H	21.29	21.88	21.79	22.38	22.86	21.29	21.88	21.79	22.38	22.86
	8H	21.61	22.15	22.13	22.66	23.15	21.61	22.15	22.13	22.66	23.15
	12H	21.92	22.40	22.43	22.89	23.46	21.92	22.40	22.43	22.89	23.46
12H	4H	20.67	21.31	21.16	21.79	22.26	20.67	21.31	21.16	21.79	22.26
	6H	21.34	21.88	21.86	22.39	22.88	21.34	21.88	21.86	22.39	22.88
	8H	21.72	22.20	22.23	22.70	23.26	21.72	22.20	22.23	22.70	23.26