

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: P866742

Luminaire Tested: PRLX-2001-L-930-133L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-133L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

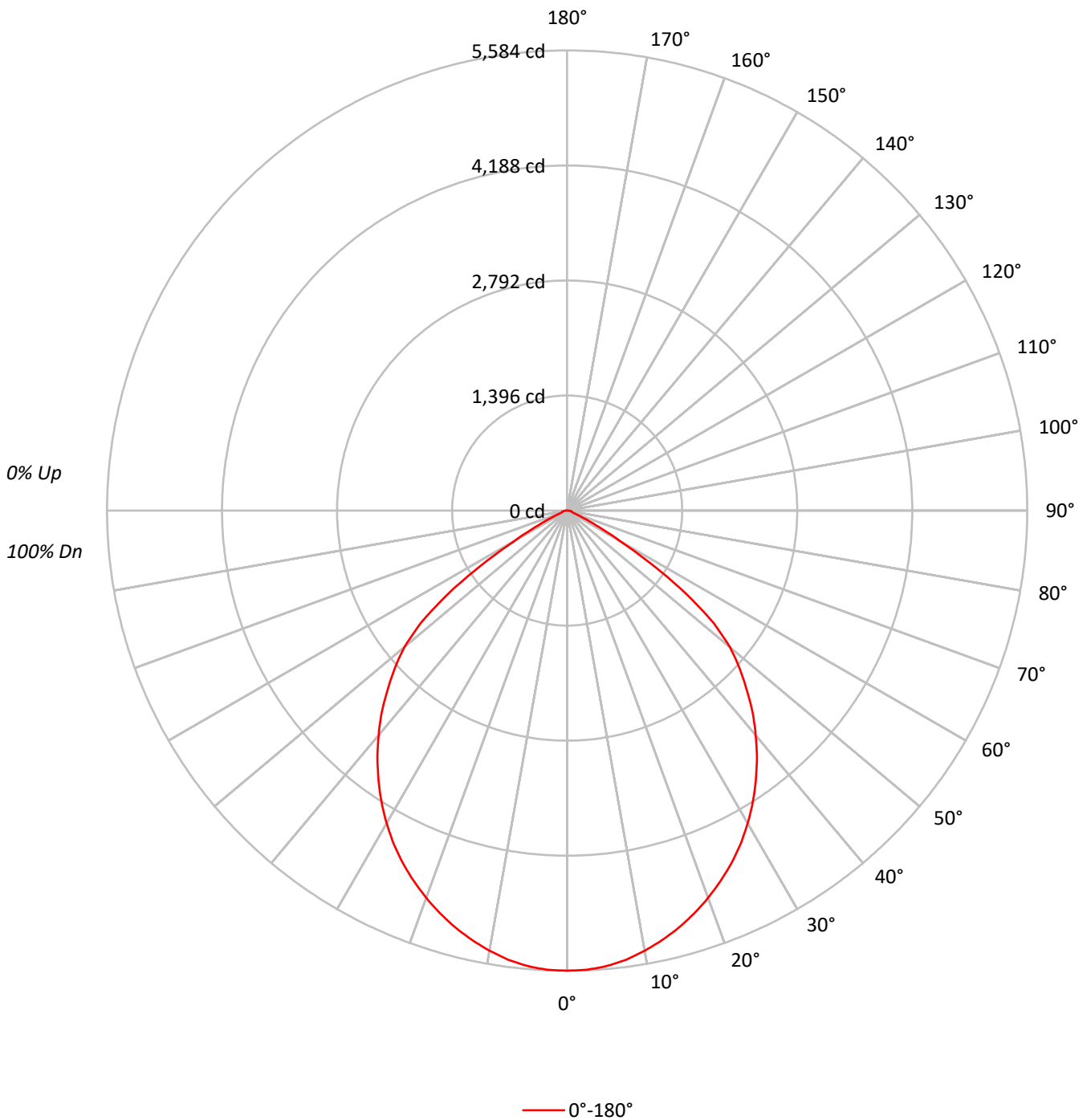
Lumens per Lamp: N/A
Luminaire Lumens: 10966.8 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.5 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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30526
5°	30440
10°	30107
15°	29651
20°	29097
25°	28464
30°	27662
35°	26644
40°	25405
45°	23858
50°	21921
55°	16926
60°	8183
65°	3088
70°	1216
75°	1339
80°	1524
85°	1737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23858 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.6	4.8
10°-20°	1476.0	13.5
20°-30°	2171.0	19.8
30°-40°	2493.3	22.7
40°-50°	2376.8	21.7
50°-60°	1534.4	14.0
60°-70°	294.8	2.7
70°-80°	66.4	0.6
80°-90°	28.5	0.3
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°	4172.6	38.0
0°-40°	6665.9	60.8
0°-60°	10577.1	96.4
0°-90°	10966.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10966.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5584	
5°	5547	526
15°	5239	1476
25°	4719	2171
35°	3992	2493
45°	3086	2377
55°	1776	1534
65°	239	295
75°	63	66
85°	28	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5583.8
2.5°	5576.8
5°	5546.9
7.5°	5496.1
10°	5423.5
12.5°	5337.0
15°	5239.0
17.5°	5125.9
20°	5001.4
22.5°	4864.2
25°	4718.9
27.5°	4558.6
30°	4382.1
32.5°	4193.0
35°	3992.4
37.5°	3783.6
40°	3559.9
42.5°	3335.0
45°	3085.9
47.5°	2840.3
50°	2577.4
52.5°	2237.2
55°	1775.9
57.5°	1237.4
60°	748.4
62.5°	429.0
65°	238.7
67.5°	124.5
70°	76.1
72.5°	69.2
75°	63.4
77.5°	56.5
80°	48.4
82.5°	39.2
85°	27.7
87.5°	13.8
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	19.78	21.18	20.15	21.50	21.81	19.78	21.18	20.15	21.50	21.81
	3H	19.71	20.94	20.09	21.27	21.63	19.71	20.94	20.09	21.27	21.63
	4H	19.66	20.81	20.06	21.16	21.54	19.66	20.81	20.06	21.16	21.54
	6H	19.62	20.67	20.03	21.04	21.43	19.62	20.67	20.03	21.04	21.43
	8H	19.59	20.59	20.02	20.98	21.38	19.59	20.59	20.02	20.98	21.38
	12H	19.57	20.52	20.00	20.90	21.33	19.57	20.52	20.00	20.90	21.33
4H	2H	19.66	20.81	20.06	21.16	21.54	19.66	20.81	20.06	21.16	21.54
	3H	19.60	20.53	20.01	20.93	21.33	19.60	20.53	20.01	20.93	21.33
	4H	19.56	20.38	19.99	20.80	21.24	19.56	20.38	19.99	20.80	21.24
	6H	19.53	20.24	19.99	20.68	21.15	19.53	20.24	19.99	20.68	21.15
	8H	19.50	20.17	19.97	20.61	21.08	19.50	20.17	19.97	20.61	21.08
	12H	19.49	20.07	19.97	20.56	21.03	19.49	20.07	19.97	20.56	21.03
8H	4H	19.45	20.11	19.91	20.55	21.02	19.45	20.11	19.91	20.55	21.02
	6H	19.41	19.96	19.92	20.46	20.94	19.41	19.96	19.92	20.46	20.94
	8H	19.39	19.89	19.91	20.40	20.90	19.39	19.89	19.91	20.40	20.90
	12H	19.39	19.84	19.91	20.33	20.90	19.39	19.84	19.91	20.33	20.90
12H	4H	19.40	19.99	19.89	20.47	20.95	19.40	19.99	19.89	20.47	20.95
	6H	19.36	19.86	19.88	20.37	20.86	19.36	19.86	19.88	20.37	20.86
	8H	19.37	19.81	19.88	20.30	20.87	19.37	19.81	19.88	20.30	20.87