

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: P1245368

Luminaire Tested: PRLX-UNA-L-940-12L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-L-940-12L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL LINES SHADE TEXTURE
LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

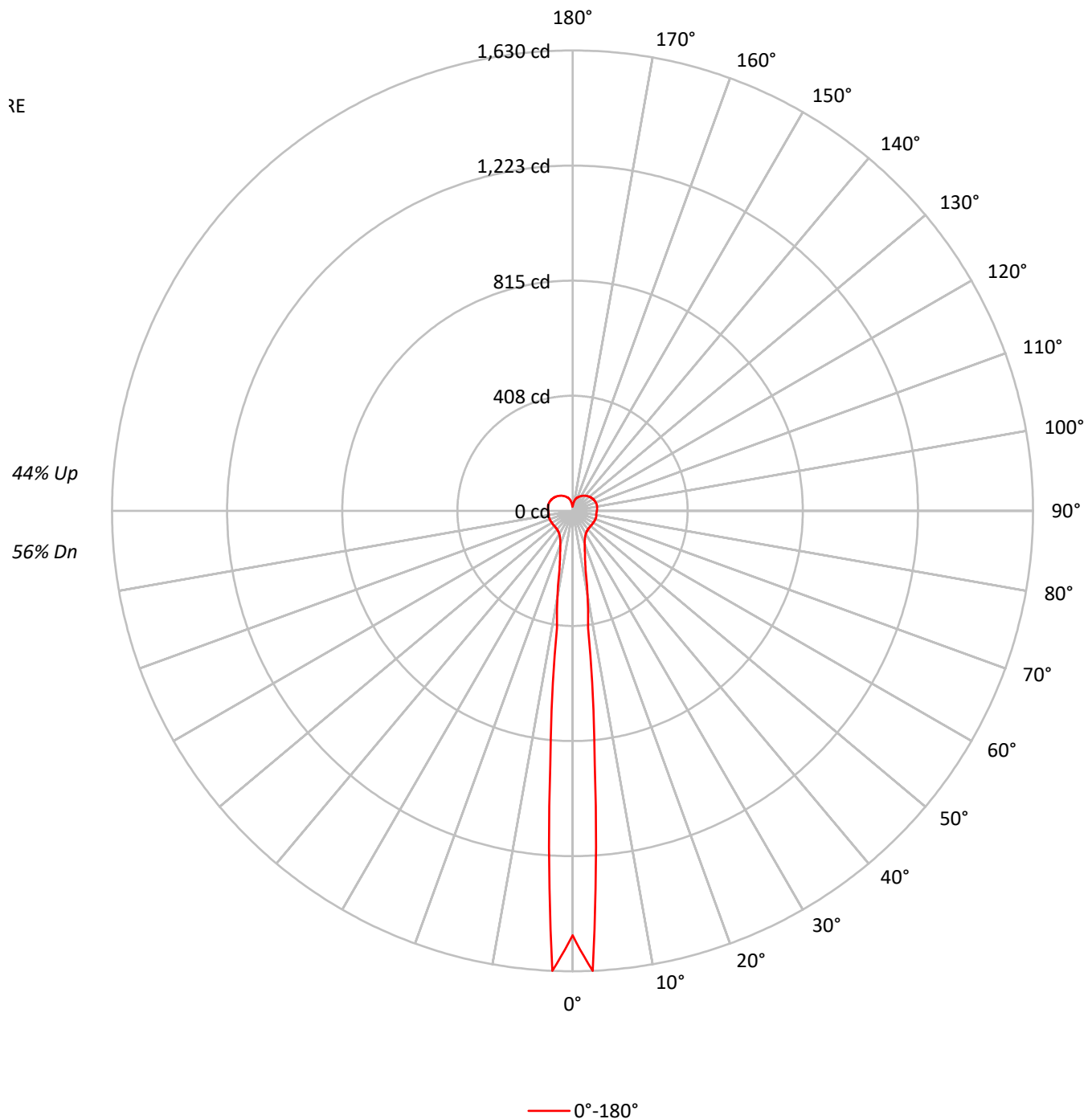
Lumens per Lamp: N/A
Luminaire Lumens: 1117.4 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56		
1	96	90	85	80	88	83	79	75	71	68	64	60	57	55	49	47	46	40		
2	86	77	70	63	80	72	65	59	61	56	51	51	47	44	42	39	37	32		
3	79	68	59	52	72	63	55	49	54	48	43	45	40	37	37	34	31	27		
4	72	60	51	44	66	56	48	42	48	41	37	40	35	31	33	30	27	23		
5	66	54	45	38	61	50	42	36	43	37	32	36	31	28	30	27	23	20		
6	61	48	40	34	57	45	37	32	39	33	28	33	28	25	28	24	21	18		
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17		
8	53	41	33	27	49	38	31	26	33	27	23	29	24	20	24	21	18	15		
9	50	37	30	25	46	35	28	23	31	25	21	27	22	19	23	19	16	14		
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47527
5°	22276
10°	6263
15°	2942
20°	1938
25°	1441
30°	1185
35°	1035
40°	934
45°	877
50°	836
55°	814
60°	799
65°	795
70°	793
75°	797
80°	789
85°	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 877 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	6.0
10°-20°	50.2	4.5
20°-30°	48.9	4.4
30°-40°	55.7	5.0
40°-50°	65.1	5.8
50°-60°	75.5	6.8
60°-70°	84.8	7.6
70°-80°	91.1	8.2
80°-90°	93.0	8.3
90°-100°	95.4	8.5
100°-110°	93.4	8.4
110°-120°	85.3	7.6
120°-130°	72.7	6.5
130°-140°	57.3	5.1
140°-150°	41.0	3.7
150°-160°	25.8	2.3
160°-170°	12.5	1.1
170°-180°	2.6	0.2
0°-30°	166.1	14.9
0°-40°	221.8	19.9
0°-60°	362.4	32.4
0°-90°	631.3	56.5
90°-120°	274.1	24.5
90°-150°	445.2	39.8
90°-180°	486.0	43.5
0°-180°	1117.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1502	
5°	903	67
15°	169	50
25°	104	49
35°	88	56
45°	84	65
55°	84	75
65°	86	85
75°	86	91
85°	85	70
90°	86	47
95°	88	72
105°	88	93
115°	86	85
125°	81	73
135°	74	57
145°	65	41
155°	56	26
165°	44	13
175°	23	3
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1502.3
2.5°	1630.2
5°	903.1
7.5°	418.8
10°	307.9
12.5°	211.9
15°	168.9
17.5°	143.9
20°	126.4
22.5°	113.4
25°	104.5
27.5°	98.5
30°	94.0
32.5°	91.0
35°	88.5
37.5°	86.5
40°	85.0
42.5°	84.5
45°	84.0
47.5°	83.5
50°	83.5
52.5°	84.0
55°	84.0
57.5°	84.5
60°	84.5
62.5°	85.0
65°	85.5
67.5°	86.0
70°	86.0
72.5°	86.5
75°	86.5
77.5°	86.0
80°	85.0
82.5°	85.0
85°	85.0
87.5°	85.5
90°	86.0
92.5°	87.0
95°	87.5
97.5°	88.0
100°	88.5
102.5°	88.5
105°	88.5
107.5°	88.0
110°	87.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	87.0
115°	86.0
117.5°	85.0
120°	84.0
122.5°	82.5
125°	81.0
127.5°	79.5
130°	78.0
132.5°	76.0
135°	74.0
137.5°	72.0
140°	69.5
142.5°	67.5
145°	65.0
147.5°	63.0
150°	60.5
152.5°	58.0
155°	55.5
157.5°	53.0
160°	50.0
162.5°	47.5
165°	44.0
167.5°	40.0
170°	35.0
172.5°	29.5
175°	23.0
177.5°	17.0
180°	15.0

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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	6.7	7.7	7.6	8.6	9.8	6.7	7.7	7.6	8.6	9.8
	3H	9.5	10.5	10.4	11.4	12.6	9.5	10.5	10.4	11.4	12.6
	4H	10.9	11.8	11.8	12.7	13.9	10.9	11.8	11.8	12.7	13.9
	6H	12.3	13.1	13.2	14.0	15.2	12.3	13.1	13.2	14.0	15.2
	8H	12.9	13.7	13.8	14.6	15.9	12.9	13.7	13.8	14.6	15.9
	12H	13.5	14.3	14.5	15.2	16.5	13.5	14.3	14.5	15.2	16.5
4H	2H	7.4	8.3	8.3	9.2	10.4	7.4	8.3	8.3	9.2	10.4
	3H	10.5	11.2	11.4	12.2	13.4	10.5	11.2	11.4	12.2	13.4
	4H	12.0	12.7	12.9	13.7	14.9	12.0	12.7	12.9	13.7	14.9
	6H	13.5	14.1	14.4	15.1	16.3	13.5	14.1	14.4	15.1	16.3
	8H	14.2	14.8	15.2	15.8	17.1	14.2	14.8	15.2	15.8	17.1
	12H	15.0	15.5	15.9	16.5	17.8	15.0	15.5	15.9	16.5	17.8
8H	4H	12.5	13.1	13.4	14.1	15.3	12.5	13.1	13.4	14.1	15.3
	6H	14.2	14.7	15.2	15.7	17.0	14.2	14.7	15.2	15.7	17.0
	8H	15.1	15.5	16.0	16.5	17.8	15.1	15.5	16.0	16.5	17.8
	12H	16.0	16.4	17.0	17.4	18.7	16.0	16.4	17.0	17.4	18.7
12H	4H	12.6	13.1	13.5	14.1	15.4	12.6	13.1	13.5	14.1	15.4
	6H	14.4	14.8	15.3	15.8	17.1	14.4	14.8	15.3	15.8	17.1
	8H	15.3	15.7	16.3	16.7	18.0	15.3	15.7	16.3	16.7	18.0

(END OF REPORT)