

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: P1245296

Luminaire Tested: PRLX-UNA-L-927-12L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245296
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-927-12L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL LINES SHADE TEXTURE
LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

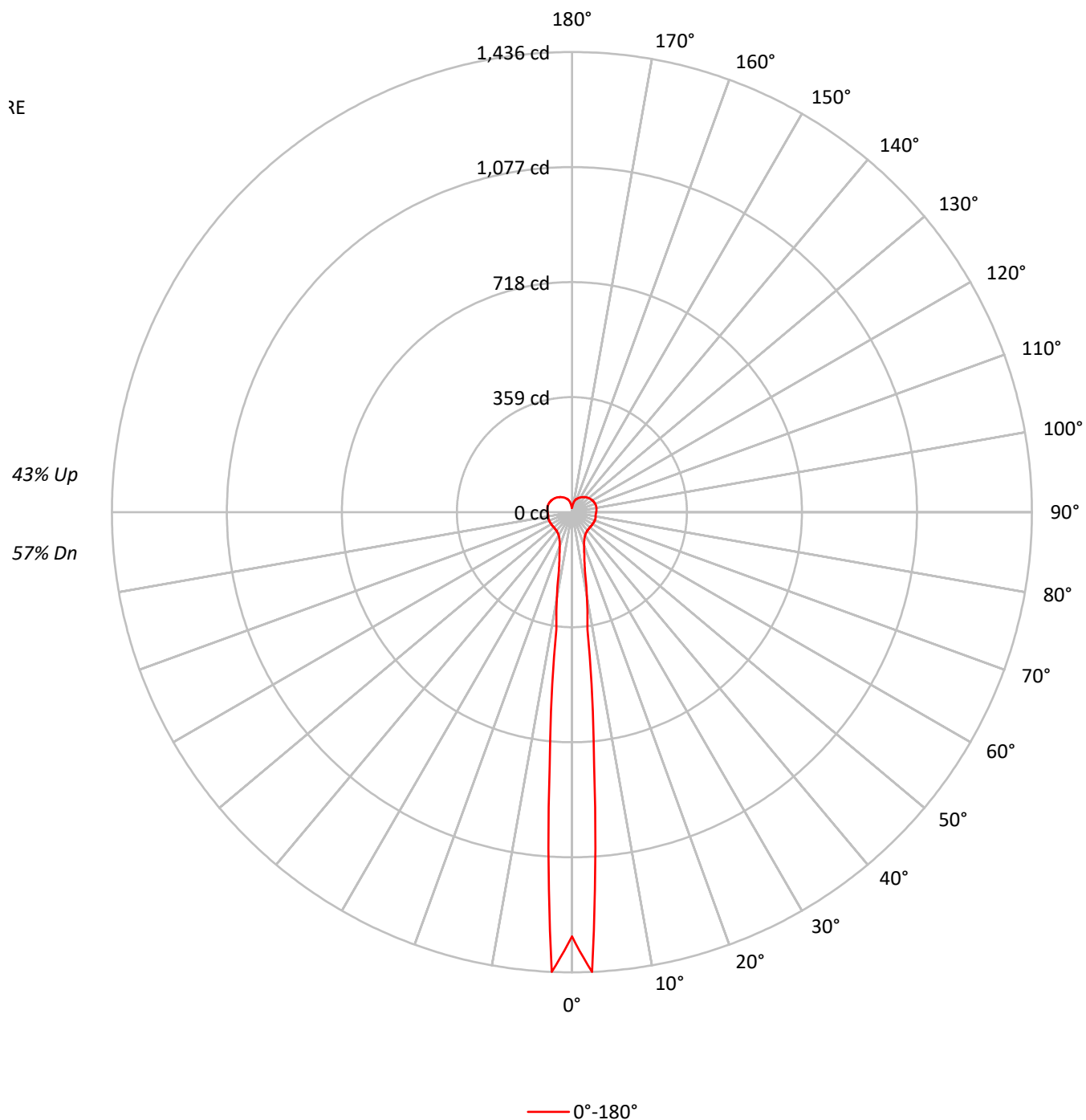
Lumens per Lamp: N/A
Luminaire Lumens: 983.9 lumens
Efficiency: N/A
Efficacy: 32.3 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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	57		
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°	41868
5°	19624
10°	5516
15°	2592
20°	1708
25°	1268
30°	1044
35°	911
40°	822
45°	772
50°	736
55°	717
60°	704
65°	701
70°	698
75°	702
80°	694
85°	704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 772 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	6.0
10°-20°	44.2	4.5
20°-30°	43.1	4.4
30°-40°	49.1	5.0
40°-50°	57.3	5.8
50°-60°	66.5	6.8
60°-70°	74.7	7.6
70°-80°	80.2	8.2
80°-90°	81.9	8.3
90°-100°	84.0	8.5
100°-110°	82.2	8.4
110°-120°	75.1	7.6
120°-130°	64.0	6.5
130°-140°	50.5	5.1
140°-150°	36.1	3.7
150°-160°	22.7	2.3
160°-170°	11.0	1.1
170°-180°	2.3	0.2
0°-30°	146.3	14.9
0°-40°	195.4	19.9
0°-60°	319.2	32.4
0°-90°	555.9	56.5
90°-120°	241.3	24.5
90°-150°	391.9	39.8
90°-180°	428.0	43.5
0°-180°	983.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1323	
5°	796	59
15°	149	44
25°	92	43
35°	78	49
45°	74	57
55°	74	66
65°	75	75
75°	76	80
85°	75	61
90°	76	42
95°	77	63
105°	78	82
115°	76	75
125°	71	64
135°	65	51
145°	57	36
155°	49	23
165°	39	11
175°	20	2
180°	13	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1323.4
2.5°	1436.1
5°	795.6
7.5°	368.9
10°	271.2
12.5°	186.7
15°	148.8
17.5°	126.8
20°	111.4
22.5°	99.9
25°	92.0
27.5°	86.7
30°	82.8
32.5°	80.1
35°	77.9
37.5°	76.2
40°	74.8
42.5°	74.4
45°	74.0
47.5°	73.5
50°	73.5
52.5°	74.0
55°	74.0
57.5°	74.4
60°	74.4
62.5°	74.8
65°	75.3
67.5°	75.7
70°	75.7
72.5°	76.2
75°	76.2
77.5°	75.7
80°	74.8
82.5°	74.8
85°	74.8
87.5°	75.3
90°	75.7
92.5°	76.6
95°	77.0
97.5°	77.5
100°	77.9
102.5°	77.9
105°	77.9
107.5°	77.5
110°	77.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	76.6
115°	75.7
117.5°	74.8
120°	74.0
122.5°	72.6
125°	71.3
127.5°	70.0
130°	68.7
132.5°	66.9
135°	65.2
137.5°	63.4
140°	61.2
142.5°	59.4
145°	57.2
147.5°	55.5
150°	53.3
152.5°	51.1
155°	48.9
157.5°	46.7
160°	44.0
162.5°	41.8
165°	38.7
167.5°	35.2
170°	30.8
172.5°	26.0
175°	20.3
177.5°	15.0
180°	13.2

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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	6.3	7.3	7.1	8.2	9.4	6.3	7.3	7.1	8.2	9.4
	3H	9.1	10.0	10.0	11.0	12.1	9.1	10.0	10.0	11.0	12.1
	4H	10.5	11.4	11.4	12.3	13.5	10.5	11.4	11.4	12.3	13.5
	6H	11.8	12.7	12.7	13.6	14.8	11.8	12.7	12.7	13.6	14.8
	8H	12.5	13.3	13.4	14.2	15.4	12.5	13.3	13.4	14.2	15.4
	12H	13.1	13.8	14.0	14.8	16.0	13.1	13.8	14.0	14.8	16.0
4H	2H	7.0	7.9	7.9	8.8	10.0	7.0	7.9	7.9	8.8	10.0
	3H	10.0	10.8	10.9	11.7	13.0	10.0	10.8	10.9	11.7	13.0
	4H	11.6	12.3	12.5	13.2	14.5	11.6	12.3	12.5	13.2	14.5
	6H	13.1	13.7	14.0	14.7	15.9	13.1	13.7	14.0	14.7	15.9
	8H	13.8	14.4	14.7	15.4	16.6	13.8	14.4	14.7	15.4	16.6
	12H	14.5	15.1	15.5	16.1	17.3	14.5	15.1	15.5	16.1	17.3
8H	4H	12.0	12.6	13.0	13.6	14.9	12.0	12.6	13.0	13.6	14.9
	6H	13.7	14.3	14.7	15.3	16.5	13.7	14.3	14.7	15.3	16.5
	8H	14.6	15.1	15.6	16.1	17.4	14.6	15.1	15.6	16.1	17.4
	12H	15.5	16.0	16.5	16.9	18.3	15.5	16.0	16.5	16.9	18.3
12H	4H	12.1	12.7	13.1	13.7	14.9	12.1	12.7	13.1	13.7	14.9
	6H	13.9	14.4	14.9	15.4	16.7	13.9	14.4	14.9	15.4	16.7
	8H	14.9	15.3	15.9	16.3	17.6	14.9	15.3	15.9	16.3	17.6

(END OF REPORT)