

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: P1245222

Luminaire Tested: PRLX-NIM-S-927-09L-U-WO

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-NIM-S-927-09L-U-WO
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, WOVEN OVAL SHADE TEXTURE LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

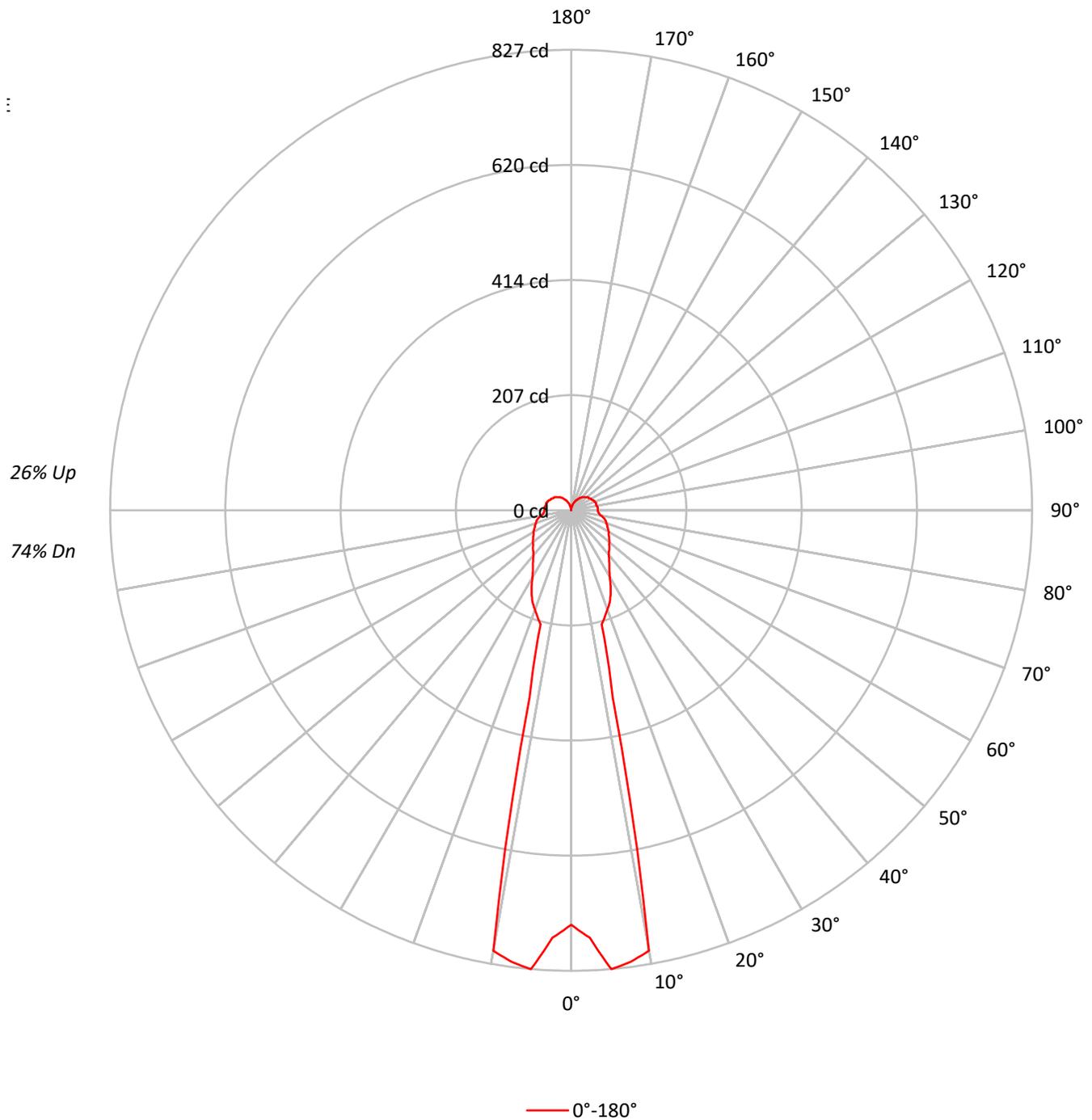
Lumens per Lamp: N/A
Luminaire Lumens: 884.0 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): 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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	113	113	113	113	107	107	107	107	96	96	96		87	87	87		78	78	78	74
1	101	96	91	87	96	91	87	83	82	79	76		74	71	69		66	64	62	58
2	92	84	77	71	87	80	73	68	72	67	63		65	61	57		58	55	52	49
3	85	74	66	60	80	71	64	58	64	58	53		58	53	49		52	48	45	42
4	78	67	58	52	74	64	56	50	58	52	47		52	47	43		47	43	40	37
5	72	60	52	46	69	58	50	44	53	46	41		48	43	39		44	39	36	33
6	68	55	47	41	64	53	45	40	48	42	37		44	39	35		41	36	33	30
7	63	51	43	37	60	49	41	36	45	39	34		41	36	32		38	33	30	28
8	59	47	39	34	56	45	38	33	42	36	31		39	33	30		36	31	28	26
9	56	44	36	31	53	42	35	30	39	33	29		36	31	27		34	29	26	24
10	53	41	34	29	51	40	33	28	37	31	27		34	29	26		32	28	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23550
5°	23241
10°	20436
15°	4961
20°	4140
25°	3447
30°	2723
35°	2260
40°	1930
45°	1746
50°	1583
55°	1461
60°	1379
65°	1279
70°	1216
75°	1158
80°	1044
85°	994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	8.7
10°-20°	81.9	9.3
20°-30°	76.2	8.6
30°-40°	75.1	8.5
40°-50°	74.8	8.5
50°-60°	74.5	8.4
60°-70°	71.7	8.1
70°-80°	65.3	7.4
80°-90°	54.3	6.1
90°-100°	51.9	5.9
100°-110°	48.7	5.5
110°-120°	42.7	4.8
120°-130°	34.9	4.0
130°-140°	26.0	2.9
140°-150°	16.8	1.9
150°-160°	8.7	1.0
160°-170°	3.0	0.3
170°-180°	0.3	0.0
0°-30°	235.2	26.6
0°-40°	310.3	35.1
0°-60°	459.6	52.0
0°-90°	651.0	73.6
90°-120°	143.3	16.2
90°-150°	221.0	25.0
90°-180°	233.0	26.4
0°-180°	884.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	744	
5°	827	77
15°	212	82
25°	167	76
35°	120	75
45°	97	75
55°	83	74
65°	72	72
75°	62	65
85°	49	41
90°	48	26
95°	48	39
105°	46	49
115°	43	43
125°	38	35
135°	34	26
145°	27	17
155°	19	9
165°	10	3
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	744.4
2.5°	768.3
5°	827.3
7.5°	817.8
10°	803.4
12.5°	344.3
15°	212.0
17.5°	200.9
20°	189.7
22.5°	180.1
25°	167.4
27.5°	153.0
30°	138.7
32.5°	127.5
35°	119.6
37.5°	111.6
40°	105.2
42.5°	100.4
45°	97.2
47.5°	92.5
50°	89.3
52.5°	86.1
55°	82.9
57.5°	79.7
60°	78.1
62.5°	74.9
65°	71.7
67.5°	70.1
70°	67.0
72.5°	65.4
75°	62.2
77.5°	59.0
80°	54.2
82.5°	51.0
85°	49.4
87.5°	47.8
90°	47.8
92.5°	47.8
95°	47.8
97.5°	47.8
100°	46.2
102.5°	46.2
105°	46.2
107.5°	46.2
110°	44.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	44.6
115°	43.0
117.5°	41.4
120°	41.4
122.5°	39.9
125°	38.3
127.5°	38.3
130°	36.7
132.5°	35.1
135°	33.5
137.5°	31.9
140°	30.3
142.5°	28.7
145°	27.1
147.5°	23.9
150°	22.3
152.5°	20.7
155°	19.1
157.5°	15.9
160°	14.3
162.5°	12.8
165°	9.6
167.5°	8.0
170°	6.4
172.5°	3.2
175°	1.6
177.5°	0.0
180°	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	9.9	11.0	10.6	11.8	12.6	9.9	11.0	10.6	11.8	12.6
	3H	12.2	13.2	12.9	14.0	14.9	12.2	13.2	12.9	14.0	14.9
	4H	13.2	14.2	14.0	15.0	15.9	13.2	14.2	14.0	15.0	15.9
	6H	14.2	15.1	15.0	15.9	16.9	14.2	15.1	15.0	15.9	16.9
	8H	14.6	15.5	15.4	16.3	17.3	14.6	15.5	15.4	16.3	17.3
	12H	15.1	15.9	15.8	16.7	17.7	15.1	15.9	15.8	16.7	17.7
4H	2H	10.5	11.4	11.2	12.2	13.1	10.5	11.4	11.2	12.2	13.1
	3H	13.0	13.8	13.7	14.6	15.6	13.0	13.8	13.7	14.6	15.6
	4H	14.2	15.0	15.0	15.8	16.8	14.2	15.0	15.0	15.8	16.8
	6H	15.3	16.0	16.1	16.9	17.8	15.3	16.0	16.1	16.9	17.8
	8H	15.8	16.5	16.6	17.3	18.3	15.8	16.5	16.6	17.3	18.3
	12H	16.4	17.0	17.2	17.8	18.8	16.4	17.0	17.2	17.8	18.8
8H	4H	14.6	15.3	15.4	16.1	17.1	14.6	15.3	15.4	16.1	17.1
	6H	15.9	16.5	16.7	17.3	18.3	15.9	16.5	16.7	17.3	18.3
	8H	16.5	17.0	17.4	17.9	18.9	16.5	17.0	17.4	17.9	18.9
	12H	17.2	17.7	18.0	18.5	19.6	17.2	17.7	18.0	18.5	19.6
12H	4H	14.7	15.3	15.5	16.1	17.1	14.7	15.3	15.5	16.1	17.1
	6H	16.0	16.5	16.9	17.4	18.4	16.0	16.5	16.9	17.4	18.4
	8H	16.7	17.2	17.6	18.0	19.1	16.7	17.2	17.6	18.0	19.1

(END OF REPORT)