

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: P1245207

Luminaire Tested: PRLX-NIM-S-927-02L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245207
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-927-02L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, LAYERED FINE SHADE TEXTURE
LIGHT LEVEL 1
Light Source: -
Ballast/Driver: -

Summary

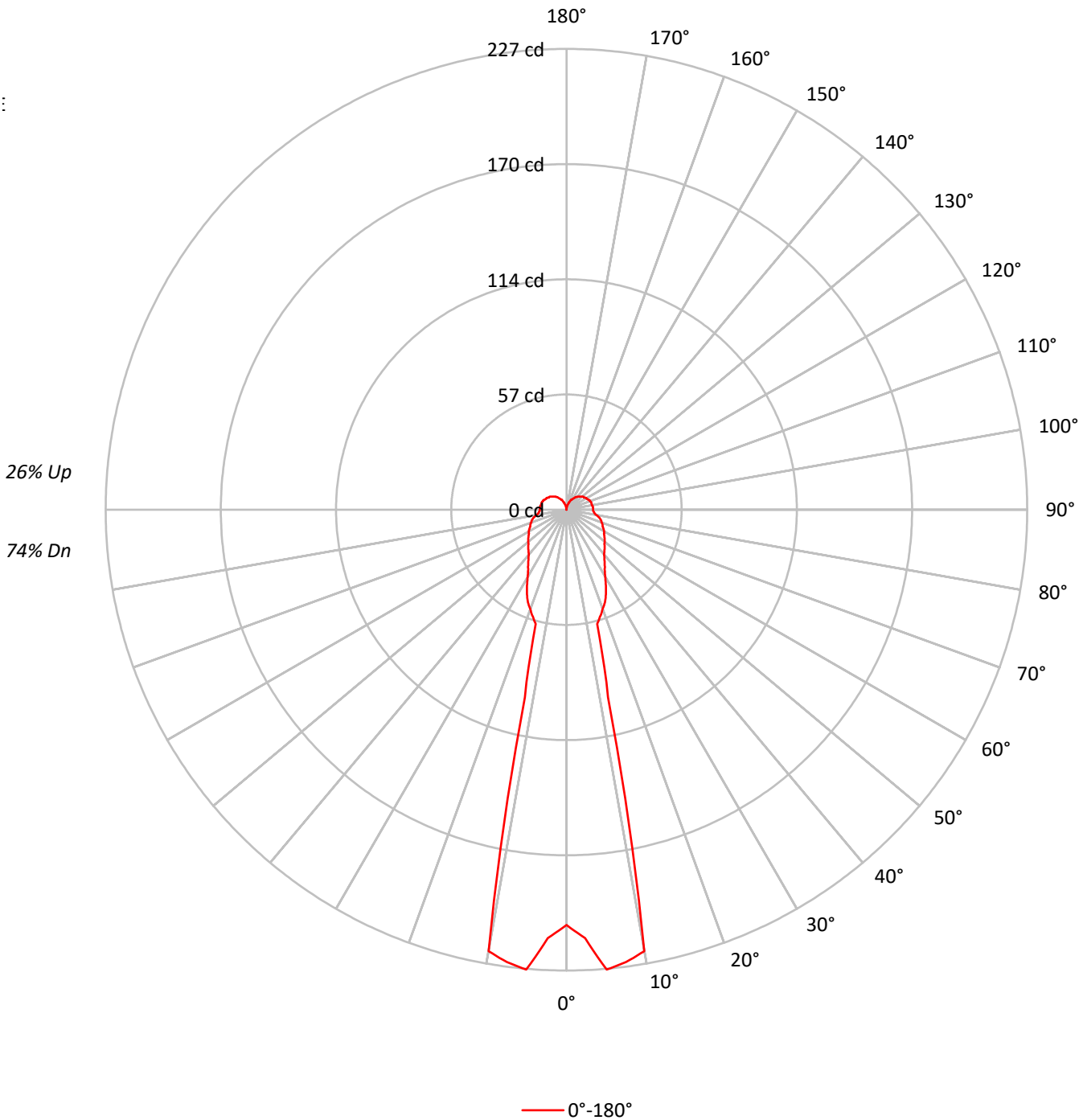
Lumens per Lamp: N/A
Luminaire Lumens: 242.9 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 6.3
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	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°	6473
5°	6388
10°	5616
15°	1364
20°	1137
25°	947
30°	748
35°	622
40°	530
45°	480
50°	434
55°	402
60°	380
65°	351
70°	334
75°	318
80°	287
85°	274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 480 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	8.7
10°-20°	22.5	9.3
20°-30°	20.9	8.6
30°-40°	20.7	8.5
40°-50°	20.6	8.5
50°-60°	20.5	8.4
60°-70°	19.7	8.1
70°-80°	18.0	7.4
80°-90°	14.9	6.1
90°-100°	14.2	5.9
100°-110°	13.4	5.5
110°-120°	11.8	4.8
120°-130°	9.6	4.0
130°-140°	7.1	2.9
140°-150°	4.6	1.9
150°-160°	2.4	1.0
160°-170°	0.8	0.3
170°-180°	0.1	0.0
0°-30°	64.7	26.6
0°-40°	85.3	35.1
0°-60°	126.3	52.0
0°-90°	178.9	73.7
90°-120°	39.4	16.2
90°-150°	60.7	25.0
90°-180°	64.0	26.3
0°-180°	242.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	205	
5°	227	21
15°	58	22
25°	46	21
35°	33	21
45°	27	21
55°	23	20
65°	20	20
75°	17	18
85°	14	11
90°	13	7
95°	13	11
105°	13	13
115°	12	12
125°	10	10
135°	9	7
145°	7	5
155°	5	2
165°	3	1
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	204.6
2.5°	211.2
5°	227.4
7.5°	224.8
10°	220.8
12.5°	94.6
15°	58.3
17.5°	55.2
20°	52.1
22.5°	49.5
25°	46.0
27.5°	42.1
30°	38.1
32.5°	35.1
35°	32.9
37.5°	30.7
40°	28.9
42.5°	27.6
45°	26.7
47.5°	25.4
50°	24.5
52.5°	23.7
55°	22.8
57.5°	21.9
60°	21.5
62.5°	20.6
65°	19.7
67.5°	19.3
70°	18.4
72.5°	18.0
75°	17.1
77.5°	16.2
80°	14.9
82.5°	14.0
85°	13.6
87.5°	13.1
90°	13.1
92.5°	13.1
95°	13.1
97.5°	13.1
100°	12.7
102.5°	12.7
105°	12.7
107.5°	12.7
110°	12.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	12.3
115°	11.8
117.5°	11.4
120°	11.4
122.5°	11.0
125°	10.5
127.5°	10.5
130°	10.1
132.5°	9.6
135°	9.2
137.5°	8.8
140°	8.3
142.5°	7.9
145°	7.4
147.5°	6.6
150°	6.1
152.5°	5.7
155°	5.3
157.5°	4.4
160°	3.9
162.5°	3.5
165°	2.6
167.5°	2.2
170°	1.8
172.5°	0.9
175°	0.4
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	5.4	6.5	6.1	7.3	8.1	5.4	6.5	6.1	7.3	8.1
	3H	7.7	8.7	8.4	9.5	10.4	7.7	8.7	8.4	9.5	10.4
	4H	8.8	9.8	9.5	10.5	11.4	8.8	9.8	9.5	10.5	11.4
	6H	9.7	10.7	10.5	11.4	12.4	9.7	10.7	10.5	11.4	12.4
	8H	10.2	11.0	10.9	11.8	12.8	10.2	11.0	10.9	11.8	12.8
	12H	10.6	11.4	11.3	12.2	13.2	10.6	11.4	11.3	12.2	13.2
4H	2H	6.0	7.0	6.7	7.7	8.7	6.0	7.0	6.7	7.7	8.7
	3H	8.5	9.3	9.3	10.1	11.1	8.5	9.3	9.3	10.1	11.1
	4H	9.7	10.5	10.5	11.3	12.3	9.7	10.5	10.5	11.3	12.3
	6H	10.9	11.5	11.6	12.4	13.3	10.9	11.5	11.6	12.4	13.3
	8H	11.4	12.0	12.2	12.8	13.8	11.4	12.0	12.2	12.8	13.8
	12H	11.9	12.5	12.7	13.3	14.3	11.9	12.5	12.7	13.3	14.3
8H	4H	10.1	10.8	10.9	11.6	12.6	10.1	10.8	10.9	11.6	12.6
	6H	11.4	12.0	12.2	12.8	13.8	11.4	12.0	12.2	12.8	13.8
	8H	12.0	12.5	12.9	13.4	14.4	12.0	12.5	12.9	13.4	14.4
	12H	12.7	13.2	13.6	14.0	15.1	12.7	13.2	13.6	14.0	15.1
12H	4H	10.2	10.8	11.0	11.6	12.6	10.2	10.8	11.0	11.6	12.6
	6H	11.5	12.0	12.4	12.9	13.9	11.5	12.0	12.4	12.9	13.9
	8H	12.2	12.7	13.1	13.5	14.6	12.2	12.7	13.1	13.5	14.6

(END OF REPORT)