

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: P1245215

Luminaire Tested: PRLX-NIM-S-927-07L-U-LF

Issue Date: 1/30/2026

**Test Information**

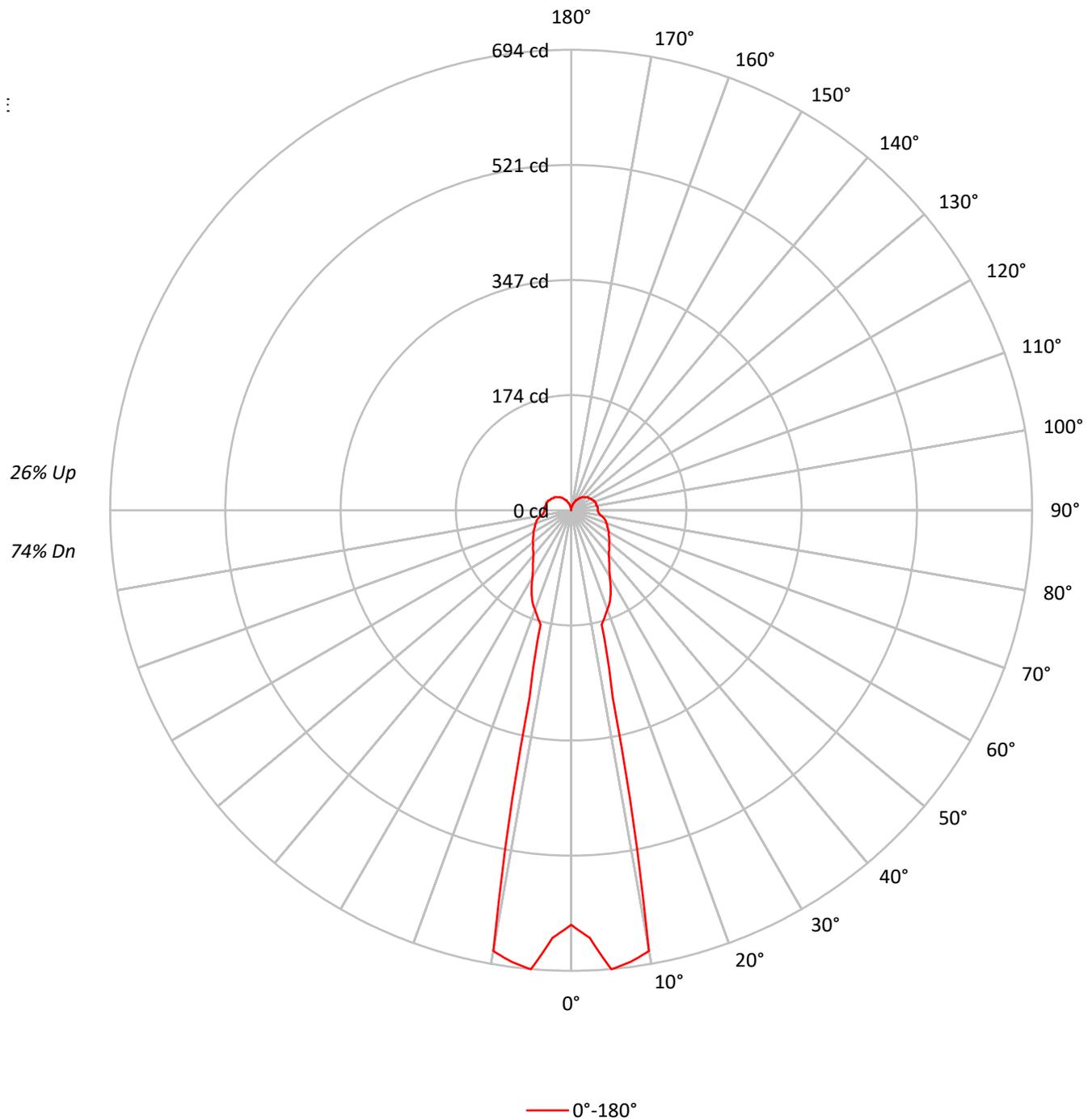
Test Method: LM-79-2019  
Report Number: P1245215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-NIM-S-927-07L-U-LF  
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 3  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 742.0 lumens  
Efficiency: N/A  
Efficacy: 45.8 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): 16.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	19766
5°	19507
10°	17154
15°	4166
20°	3474
25°	2893
30°	2285
35°	1897
40°	1620
45°	1466
50°	1327
55°	1227
60°	1159
65°	1074
70°	1020
75°	972
80°	877
85°	835

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1466 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	8.7
10°-20°	68.7	9.3
20°-30°	64.0	8.6
30°-40°	63.0	8.5
40°-50°	62.8	8.5
50°-60°	62.5	8.4
60°-70°	60.2	8.1
70°-80°	54.8	7.4
80°-90°	45.6	6.1
90°-100°	43.6	5.9
100°-110°	40.9	5.5
110°-120°	35.9	4.8
120°-130°	29.3	3.9
130°-140°	21.8	2.9
140°-150°	14.1	1.9
150°-160°	7.3	1.0
160°-170°	2.5	0.3
170°-180°	0.2	0.0
0°-30°	197.5	26.6
0°-40°	260.5	35.1
0°-60°	385.8	52.0
0°-90°	546.4	73.6
90°-120°	120.3	16.2
90°-150°	185.5	25.0
90°-180°	196.0	26.4
0°-180°	742.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	625	
5°	694	65
15°	178	69
25°	140	64
35°	100	63
45°	82	63
55°	70	63
65°	60	60
75°	52	55
85°	42	35
90°	40	22
95°	40	33
105°	39	41
115°	36	36
125°	32	29
135°	28	22
145°	23	14
155°	16	7
165°	8	3
175°	1	0
180°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	624.8
2.5°	644.9
5°	694.4
7.5°	686.4
10°	674.4
12.5°	289.0
15°	178.0
17.5°	168.6
20°	159.2
22.5°	151.2
25°	140.5
27.5°	128.4
30°	116.4
32.5°	107.0
35°	100.4
37.5°	93.7
40°	88.3
42.5°	84.3
45°	81.6
47.5°	77.6
50°	74.9
52.5°	72.3
55°	69.6
57.5°	66.9
60°	65.6
62.5°	62.9
65°	60.2
67.5°	58.9
70°	56.2
72.5°	54.9
75°	52.2
77.5°	49.5
80°	45.5
82.5°	42.8
85°	41.5
87.5°	40.1
90°	40.1
92.5°	40.1
95°	40.1
97.5°	40.1
100°	38.8
102.5°	38.8
105°	38.8
107.5°	38.8
110°	37.5

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	37.5
115°	36.1
117.5°	34.8
120°	34.8
122.5°	33.5
125°	32.1
127.5°	32.1
130°	30.8
132.5°	29.4
135°	28.1
137.5°	26.8
140°	25.4
142.5°	24.1
145°	22.7
147.5°	20.1
150°	18.7
152.5°	17.4
155°	16.1
157.5°	13.4
160°	12.0
162.5°	10.7
165°	8.0
167.5°	6.7
170°	5.4
172.5°	2.7
175°	1.3
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	9.3	10.4	10.0	11.1	12.0	9.3	10.4	10.0	11.1	12.0
	3H	11.6	12.6	12.3	13.4	14.3	11.6	12.6	12.3	13.4	14.3
	4H	12.6	13.6	13.4	14.4	15.3	12.6	13.6	13.4	14.4	15.3
	6H	13.6	14.5	14.4	15.3	16.2	13.6	14.5	14.4	15.3	16.2
	8H	14.0	14.9	14.8	15.7	16.6	14.0	14.9	14.8	15.7	16.6
	12H	14.4	15.3	15.2	16.1	17.1	14.4	15.3	15.2	16.1	17.1
4H	2H	9.8	10.8	10.6	11.6	12.5	9.8	10.8	10.6	11.6	12.5
	3H	12.4	13.2	13.1	14.0	15.0	12.4	13.2	13.1	14.0	15.0
	4H	13.6	14.4	14.4	15.2	16.2	13.6	14.4	14.4	15.2	16.2
	6H	14.7	15.4	15.5	16.2	17.2	14.7	15.4	15.5	16.2	17.2
	8H	15.2	15.9	16.0	16.7	17.7	15.2	15.9	16.0	16.7	17.7
	12H	15.7	16.3	16.6	17.2	18.2	15.7	16.3	16.6	17.2	18.2
8H	4H	14.0	14.6	14.8	15.5	16.5	14.0	14.6	14.8	15.5	16.5
	6H	15.3	15.8	16.1	16.7	17.7	15.3	15.8	16.1	16.7	17.7
	8H	15.9	16.4	16.8	17.3	18.3	15.9	16.4	16.8	17.3	18.3
	12H	16.6	17.0	17.4	17.9	19.0	16.6	17.0	17.4	17.9	19.0
12H	4H	14.0	14.6	14.9	15.5	16.5	14.0	14.6	14.9	15.5	16.5
	6H	15.4	15.9	16.3	16.7	17.8	15.4	15.9	16.3	16.7	17.8
	8H	16.1	16.6	17.0	17.4	18.5	16.1	16.6	17.0	17.4	18.5

(END OF REPORT)