

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: P1245290

Luminaire Tested: PRLX-UNA-L-927-05L-U-NL

Issue Date: 1/30/2026

**Test Information**

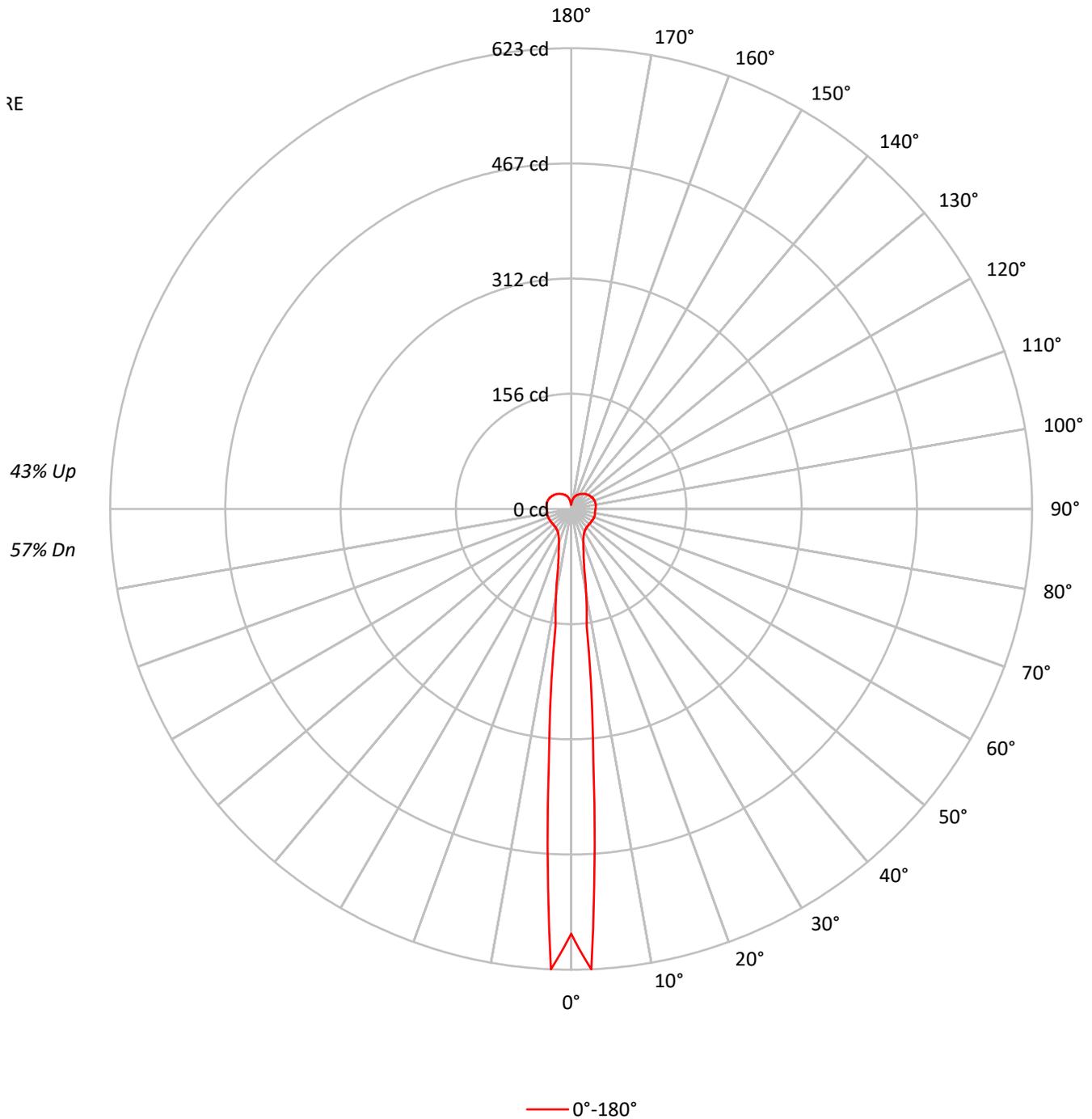
Test Method: LM-79-2019  
Report Number: P1245290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UNA-L-927-05L-U-NL  
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL LINES SHADE TEXTUF  
LIGHT LEVEL 2  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 427.1 lumens  
Efficiency: N/A  
Efficacy: 28.9 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): 14.8  
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	0		
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°	18169
5°	8515
10°	2394
15°	1125
20°	740
25°	550
30°	453
35°	395
40°	357
45°	335
50°	319
55°	311
60°	305
65°	304
70°	303
75°	305
80°	302
85°	306

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 335 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.6	6.0
10°-20°	19.2	4.5
20°-30°	18.7	4.4
30°-40°	21.3	5.0
40°-50°	24.9	5.8
50°-60°	28.8	6.8
60°-70°	32.4	7.6
70°-80°	34.9	8.2
80°-90°	35.6	8.3
90°-100°	36.4	8.5
100°-110°	35.7	8.3
110°-120°	32.6	7.6
120°-130°	27.8	6.5
130°-140°	21.9	5.1
140°-150°	15.7	3.7
150°-160°	9.9	2.3
160°-170°	4.8	1.1
170°-180°	1.0	0.2
0°-30°	63.5	14.9
0°-40°	84.8	19.9
0°-60°	138.5	32.4
0°-90°	241.4	56.5
90°-120°	104.7	24.5
90°-150°	170.0	39.8
90°-180°	186.0	43.6
0°-180°	427.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	574	
5°	345	26
15°	65	19
25°	40	19
35°	34	21
45°	32	25
55°	32	29
65°	33	32
75°	33	35
85°	32	27
90°	33	18
95°	33	27
105°	34	36
115°	33	33
125°	31	28
135°	28	22
145°	25	16
155°	21	10
165°	17	5
175°	9	1
180°	6	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	574.3
2.5°	623.2
5°	345.2
7.5°	160.1
10°	117.7
12.5°	81.0
15°	64.6
17.5°	55.0
20°	48.3
22.5°	43.4
25°	39.9
27.5°	37.6
30°	35.9
32.5°	34.8
35°	33.8
37.5°	33.1
40°	32.5
42.5°	32.3
45°	32.1
47.5°	31.9
50°	31.9
52.5°	32.1
55°	32.1
57.5°	32.3
60°	32.3
62.5°	32.5
65°	32.7
67.5°	32.9
70°	32.9
72.5°	33.1
75°	33.1
77.5°	32.9
80°	32.5
82.5°	32.5
85°	32.5
87.5°	32.7
90°	32.9
92.5°	33.2
95°	33.4
97.5°	33.6
100°	33.8
102.5°	33.8
105°	33.8
107.5°	33.6
110°	33.4

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	33.2
115°	32.9
117.5°	32.5
120°	32.1
122.5°	31.5
125°	30.9
127.5°	30.4
130°	29.8
132.5°	29.0
135°	28.3
137.5°	27.5
140°	26.6
142.5°	25.8
145°	24.8
147.5°	24.1
150°	23.1
152.5°	22.2
155°	21.2
157.5°	20.3
160°	19.1
162.5°	18.1
165°	16.8
167.5°	15.3
170°	13.4
172.5°	11.3
175°	8.8
177.5°	6.5
180°	5.7



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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	3.4	4.4	4.2	5.3	6.5	3.4	4.4	4.2	5.3	6.5
	3H	6.2	7.1	7.1	8.1	9.3	6.2	7.1	7.1	8.1	9.3
	4H	7.6	8.5	8.5	9.4	10.6	7.6	8.5	8.5	9.4	10.6
	6H	8.9	9.8	9.8	10.7	11.9	8.9	9.8	9.8	10.7	11.9
	8H	9.6	10.4	10.5	11.3	12.5	9.6	10.4	10.5	11.3	12.5
	12H	10.2	11.0	11.1	11.9	13.1	10.2	11.0	11.1	11.9	13.1
4H	2H	4.1	5.0	5.0	5.9	7.1	4.1	5.0	5.0	5.9	7.1
	3H	7.1	7.9	8.0	8.9	10.1	7.1	7.9	8.0	8.9	10.1
	4H	8.7	9.4	9.6	10.3	11.6	8.7	9.4	9.6	10.3	11.6
	6H	10.2	10.8	11.1	11.8	13.0	10.2	10.8	11.1	11.8	13.0
	8H	10.9	11.5	11.8	12.5	13.7	10.9	11.5	11.8	12.5	13.7
	12H	11.6	12.2	12.6	13.2	14.4	11.6	12.2	12.6	13.2	14.4
8H	4H	9.2	9.8	10.1	10.7	12.0	9.2	9.8	10.1	10.7	12.0
	6H	10.9	11.4	11.8	12.4	13.6	10.9	11.4	11.8	12.4	13.6
	8H	11.7	12.2	12.7	13.2	14.5	11.7	12.2	12.7	13.2	14.5
	12H	12.6	13.1	13.6	14.1	15.4	12.6	13.1	13.6	14.1	15.4
12H	4H	9.2	9.8	10.2	10.8	12.0	9.2	9.8	10.2	10.8	12.0
	6H	11.0	11.5	12.0	12.5	13.8	11.0	11.5	12.0	12.5	13.8
	8H	12.0	12.4	13.0	13.4	14.7	12.0	12.4	13.0	13.4	14.7

(END OF REPORT)