

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: P1244998

Luminaire Tested: PRLX-MIN-S-940-12L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1244998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-MIN-S-940-12L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

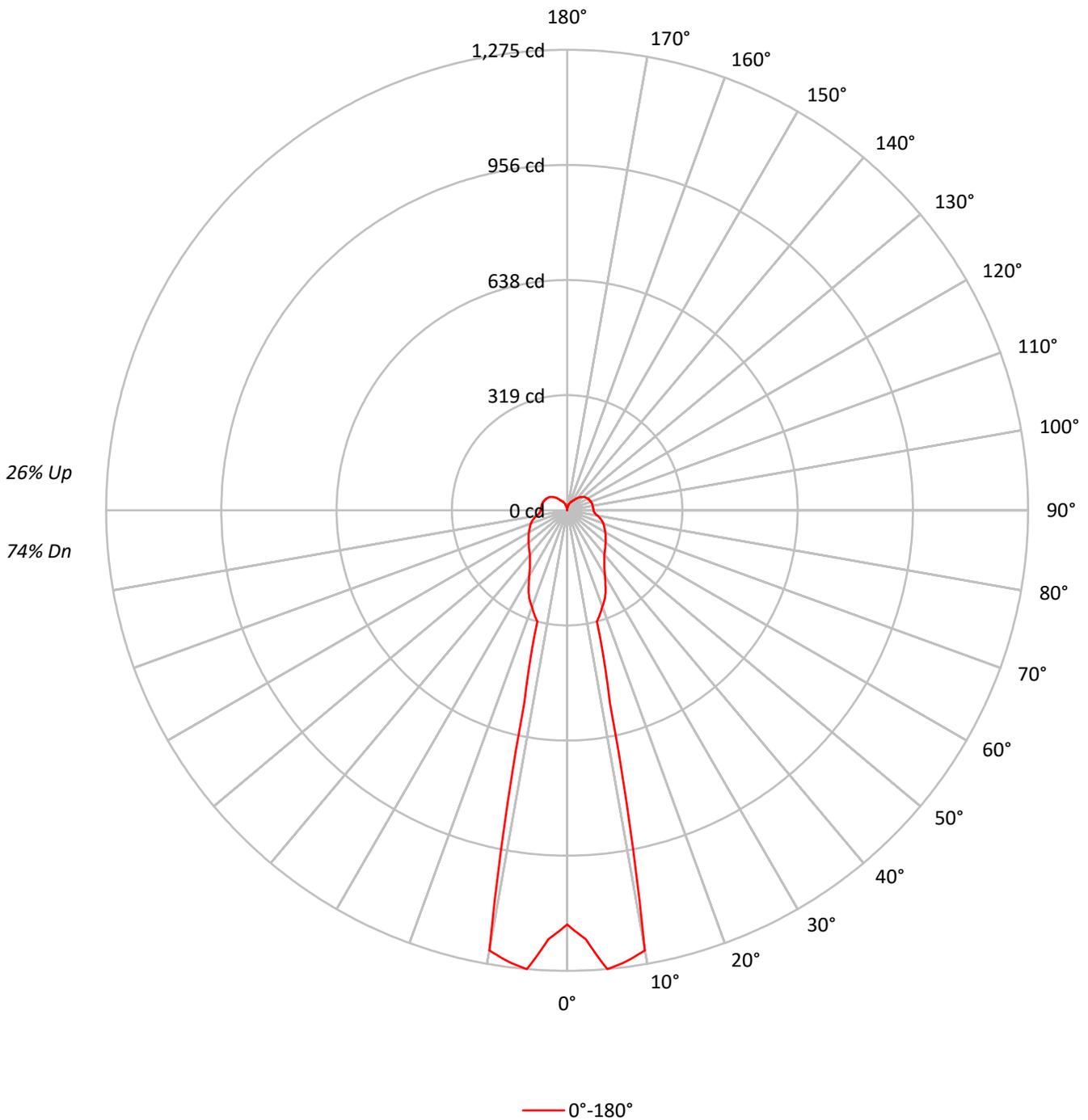
Lumens per Lamp: N/A
Luminaire Lumens: 1359.1 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.38
Luminous Opening: Rectangular w/ Sides (W: 0.62' x L: 0.62' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 28.9
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	97	97	97		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	63	58	64	58	53		58	53	49		52	48	45	42
4	78	67	58	52	74	63	56	50	58	51	46		52	47	43		47	43	40	37
5	72	60	52	46	68	58	50	44	53	46	41		48	43	38		44	39	36	33
6	67	55	47	41	64	53	45	39	48	42	37		44	39	35		40	36	33	30
7	63	51	42	37	60	49	41	36	45	38	34		41	36	32		38	33	30	28
8	59	47	39	34	56	45	38	33	42	35	31		38	33	29		35	31	28	26
9	56	44	36	31	53	42	35	30	39	33	29		36	31	27		33	29	26	24
10	53	41	34	29	50	39	33	28	37	31	27		34	29	26		32	27	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31612
5°	31447
10°	27810
15°	6620
20°	5532
25°	4645
30°	3693
35°	3051
40°	2660
45°	2426
50°	2233
55°	2092
60°	1968
65°	1857
70°	1774
75°	1664
80°	1524
85°	1421

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2426 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	8.8
10°-20°	125.6	9.2
20°-30°	114.4	8.4
30°-40°	113.2	8.3
40°-50°	115.2	8.5
50°-60°	116.6	8.6
60°-70°	112.9	8.3
70°-80°	102.1	7.5
80°-90°	84.0	6.2
90°-100°	78.8	5.8
100°-110°	75.2	5.5
110°-120°	67.2	4.9
120°-130°	55.7	4.1
130°-140°	39.8	2.9
140°-150°	22.8	1.7
150°-160°	11.9	0.9
160°-170°	4.5	0.3
170°-180°	0.3	0.0
0°-30°	358.9	26.4
0°-40°	472.1	34.7
0°-60°	703.9	51.8
0°-90°	1002.9	73.8
90°-120°	221.2	16.3
90°-150°	339.4	25.0
90°-180°	356.0	26.2
0°-180°	1359.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1147	
5°	1275	119
15°	319	126
25°	252	114
35°	179	113
45°	149	115
55°	130	117
65°	114	113
75°	97	102
85°	76	64
90°	73	40
95°	72	59
105°	71	75
115°	68	67
125°	62	56
135°	51	40
145°	35	23
155°	25	12
165°	16	5
175°	1	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1147.2
2.5°	1188.9
5°	1275.3
7.5°	1259.7
10°	1237.8
12.5°	547.6
15°	318.6
17.5°	301.9
20°	284.2
22.5°	269.6
25°	251.9
27.5°	229.0
30°	209.3
32.5°	191.6
35°	179.1
37.5°	168.7
40°	160.3
42.5°	154.1
45°	148.9
47.5°	143.7
50°	138.5
52.5°	134.3
55°	130.1
57.5°	126.0
60°	121.8
62.5°	117.6
65°	113.5
67.5°	110.4
70°	106.2
72.5°	102.0
75°	96.8
77.5°	91.6
80°	85.4
82.5°	79.1
85°	76.0
87.5°	73.9
90°	72.9
92.5°	72.9
95°	71.8
97.5°	71.8
100°	71.8
102.5°	71.8
105°	70.8
107.5°	70.8
110°	69.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	68.7
115°	67.7
117.5°	66.6
120°	65.6
122.5°	63.5
125°	62.5
127.5°	60.4
130°	57.3
132.5°	55.2
135°	51.0
137.5°	47.9
140°	43.7
142.5°	39.6
145°	35.4
147.5°	32.3
150°	30.2
152.5°	28.1
155°	25.0
157.5°	22.9
160°	20.8
162.5°	18.7
165°	15.6
167.5°	12.5
170°	8.3
172.5°	4.2
175°	1.0
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	11.2	12.4	12.0	13.1	14.0	11.2	12.4	12.0	13.1	14.0
	3H	13.6	14.6	14.3	15.4	16.3	13.6	14.6	14.3	15.4	16.3
	4H	14.6	15.6	15.4	16.4	17.3	14.6	15.6	15.4	16.4	17.3
	6H	15.6	16.5	16.3	17.3	18.2	15.6	16.5	16.3	17.3	18.2
	8H	16.0	16.9	16.8	17.7	18.6	16.0	16.9	16.8	17.7	18.6
	12H	16.4	17.3	17.2	18.0	19.0	16.4	17.3	17.2	18.0	19.0
4H	2H	11.8	12.8	12.6	13.6	14.5	11.8	12.8	12.6	13.6	14.5
	3H	14.4	15.2	15.1	16.0	17.0	14.4	15.2	15.1	16.0	17.0
	4H	15.6	16.4	16.3	17.2	18.1	15.6	16.4	16.3	17.2	18.1
	6H	16.7	17.4	17.5	18.2	19.2	16.7	17.4	17.5	18.2	19.2
	8H	17.2	17.9	18.0	18.7	19.7	17.2	17.9	18.0	18.7	19.7
	12H	17.7	18.3	18.5	19.1	20.1	17.7	18.3	18.5	19.1	20.1
8H	4H	16.0	16.6	16.8	17.4	18.4	16.0	16.6	16.8	17.4	18.4
	6H	17.3	17.8	18.1	18.7	19.7	17.3	17.8	18.1	18.7	19.7
	8H	17.9	18.4	18.7	19.2	20.2	17.9	18.4	18.7	19.2	20.2
	12H	18.5	19.0	19.4	19.8	20.9	18.5	19.0	19.4	19.8	20.9
12H	4H	16.0	16.6	16.8	17.5	18.4	16.0	16.6	16.8	17.5	18.4
	6H	17.4	17.9	18.2	18.7	19.8	17.4	17.9	18.2	18.7	19.8
	8H	18.1	18.5	18.9	19.4	20.4	18.1	18.5	18.9	19.4	20.4

(END OF REPORT)