

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: P1244953

Luminaire Tested: PRLX-MIN-S-927-12L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1244953
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-927-12L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

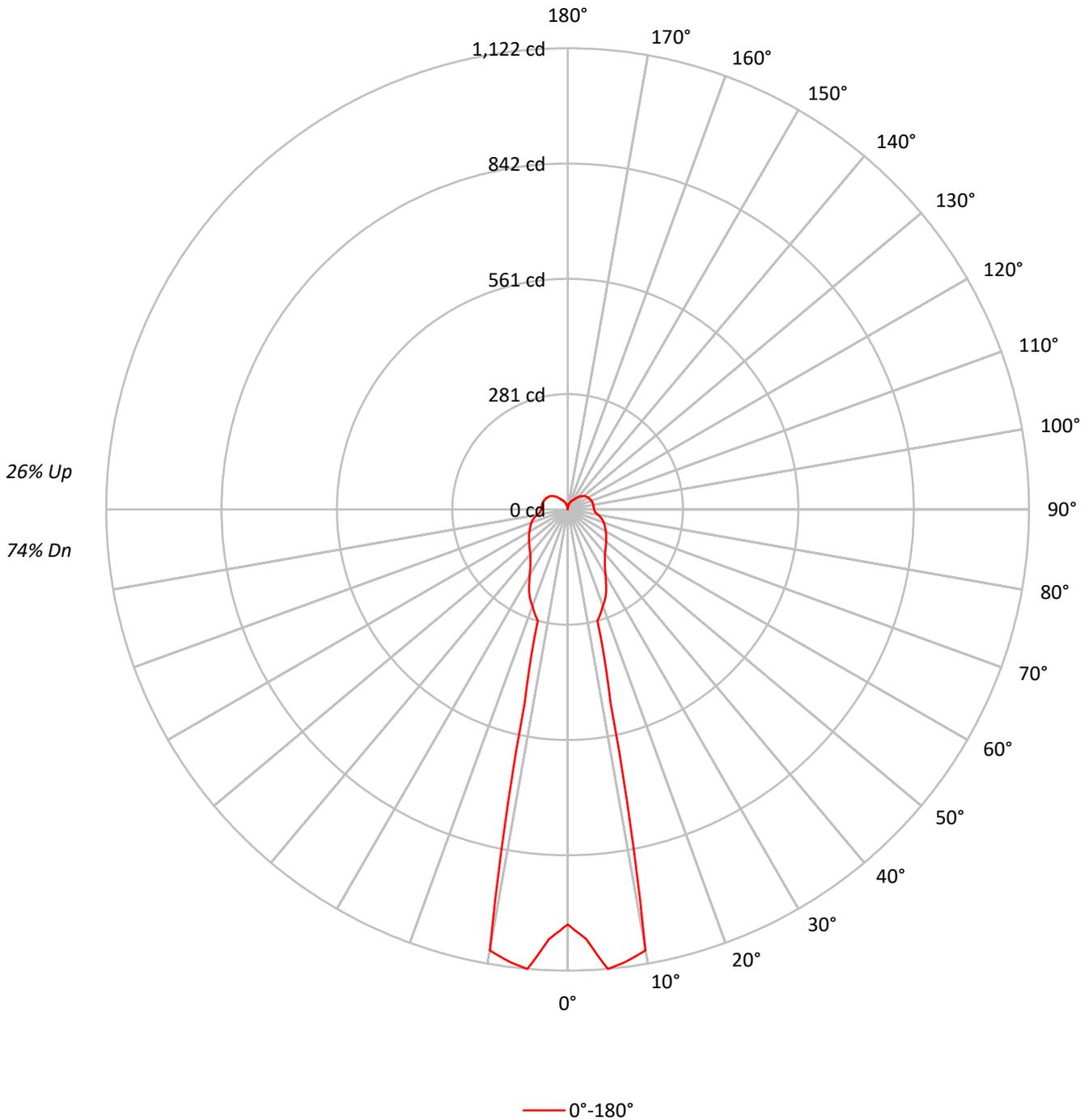
Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 41.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.38
Luminous Opening: Rectangular w/ Sides (W: 0.62' x L: 0.62' x H: 0.87')
CIE Type: Semi-Direct

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°	27820
5°	27674
10°	24476
15°	5826
20°	4868
25°	4088
30°	3250
35°	2685
40°	2341
45°	2134
50°	1966
55°	1841
60°	1732
65°	1635
70°	1562
75°	1465
80°	1340
85°	1251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	8.8
10°-20°	110.5	9.2
20°-30°	100.6	8.4
30°-40°	99.6	8.3
40°-50°	101.3	8.5
50°-60°	102.6	8.6
60°-70°	99.4	8.3
70°-80°	89.8	7.5
80°-90°	73.9	6.2
90°-100°	69.3	5.8
100°-110°	66.2	5.5
110°-120°	59.1	4.9
120°-130°	49.0	4.1
130°-140°	35.0	2.9
140°-150°	20.1	1.7
150°-160°	10.5	0.9
160°-170°	4.0	0.3
170°-180°	0.3	0.0
0°-30°	315.9	26.4
0°-40°	415.4	34.7
0°-60°	619.4	51.8
0°-90°	882.6	73.8
90°-120°	194.6	16.3
90°-150°	298.7	25.0
90°-180°	313.0	26.2
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1010	
5°	1122	105
15°	280	111
25°	222	101
35°	158	100
45°	131	101
55°	114	103
65°	100	99
75°	85	90
85°	67	56
90°	64	35
95°	63	52
105°	62	66
115°	60	59
125°	55	49
135°	45	35
145°	31	20
155°	22	10
165°	14	4
175°	1	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1009.6
2.5°	1046.3
5°	1122.3
7.5°	1108.6
10°	1089.4
12.5°	481.9
15°	280.4
17.5°	265.7
20°	250.1
22.5°	237.3
25°	221.7
27.5°	201.6
30°	184.2
32.5°	168.6
35°	157.6
37.5°	148.4
40°	141.1
42.5°	135.6
45°	131.0
47.5°	126.4
50°	121.9
52.5°	118.2
55°	114.5
57.5°	110.9
60°	107.2
62.5°	103.5
65°	99.9
67.5°	97.1
70°	93.5
72.5°	89.8
75°	85.2
77.5°	80.6
80°	75.1
82.5°	69.6
85°	66.9
87.5°	65.0
90°	64.1
92.5°	64.1
95°	63.2
97.5°	63.2
100°	63.2
102.5°	63.2
105°	62.3
107.5°	62.3
110°	61.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	60.5
115°	59.6
117.5°	58.6
120°	57.7
122.5°	55.9
125°	55.0
127.5°	53.1
130°	50.4
132.5°	48.6
135°	44.9
137.5°	42.1
140°	38.5
142.5°	34.8
145°	31.2
147.5°	28.4
150°	26.6
152.5°	24.7
155°	22.0
157.5°	20.2
160°	18.3
162.5°	16.5
165°	13.7
167.5°	11.0
170°	7.3
172.5°	3.7
175°	0.9
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	10.8	11.9	11.5	12.7	13.6	10.8	11.9	11.5	12.7	13.6
	3H	13.1	14.2	13.8	14.9	15.8	13.1	14.2	13.8	14.9	15.8
	4H	14.2	15.2	14.9	15.9	16.8	14.2	15.2	14.9	15.9	16.8
	6H	15.1	16.1	15.9	16.8	17.8	15.1	16.1	15.9	16.8	17.8
	8H	15.5	16.4	16.3	17.2	18.2	15.5	16.4	16.3	17.2	18.2
	12H	16.0	16.8	16.7	17.6	18.6	16.0	16.8	16.7	17.6	18.6
4H	2H	11.4	12.4	12.1	13.2	14.1	11.4	12.4	12.1	13.2	14.1
	3H	13.9	14.8	14.7	15.6	16.5	13.9	14.8	14.7	15.6	16.5
	4H	15.1	15.9	15.9	16.7	17.7	15.1	15.9	15.9	16.7	17.7
	6H	16.3	16.9	17.0	17.8	18.7	16.3	16.9	17.0	17.8	18.7
	8H	16.8	17.4	17.5	18.2	19.2	16.8	17.4	17.5	18.2	19.2
	12H	17.3	17.9	18.1	18.7	19.7	17.3	17.9	18.1	18.7	19.7
8H	4H	15.5	16.2	16.3	17.0	18.0	15.5	16.2	16.3	17.0	18.0
	6H	16.8	17.4	17.6	18.2	19.2	16.8	17.4	17.6	18.2	19.2
	8H	17.4	17.9	18.3	18.8	19.8	17.4	17.9	18.3	18.8	19.8
	12H	18.1	18.5	18.9	19.4	20.4	18.1	18.5	18.9	19.4	20.4
12H	4H	15.6	16.2	16.4	17.0	18.0	15.6	16.2	16.4	17.0	18.0
	6H	16.9	17.4	17.8	18.3	19.3	16.9	17.4	17.8	18.3	19.3
	8H	17.6	18.1	18.5	18.9	20.0	17.6	18.1	18.5	18.9	20.0

(END OF REPORT)