

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: P1245223

Luminaire Tested: PRLX-NIM-S-927-12L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245223
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-927-12L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

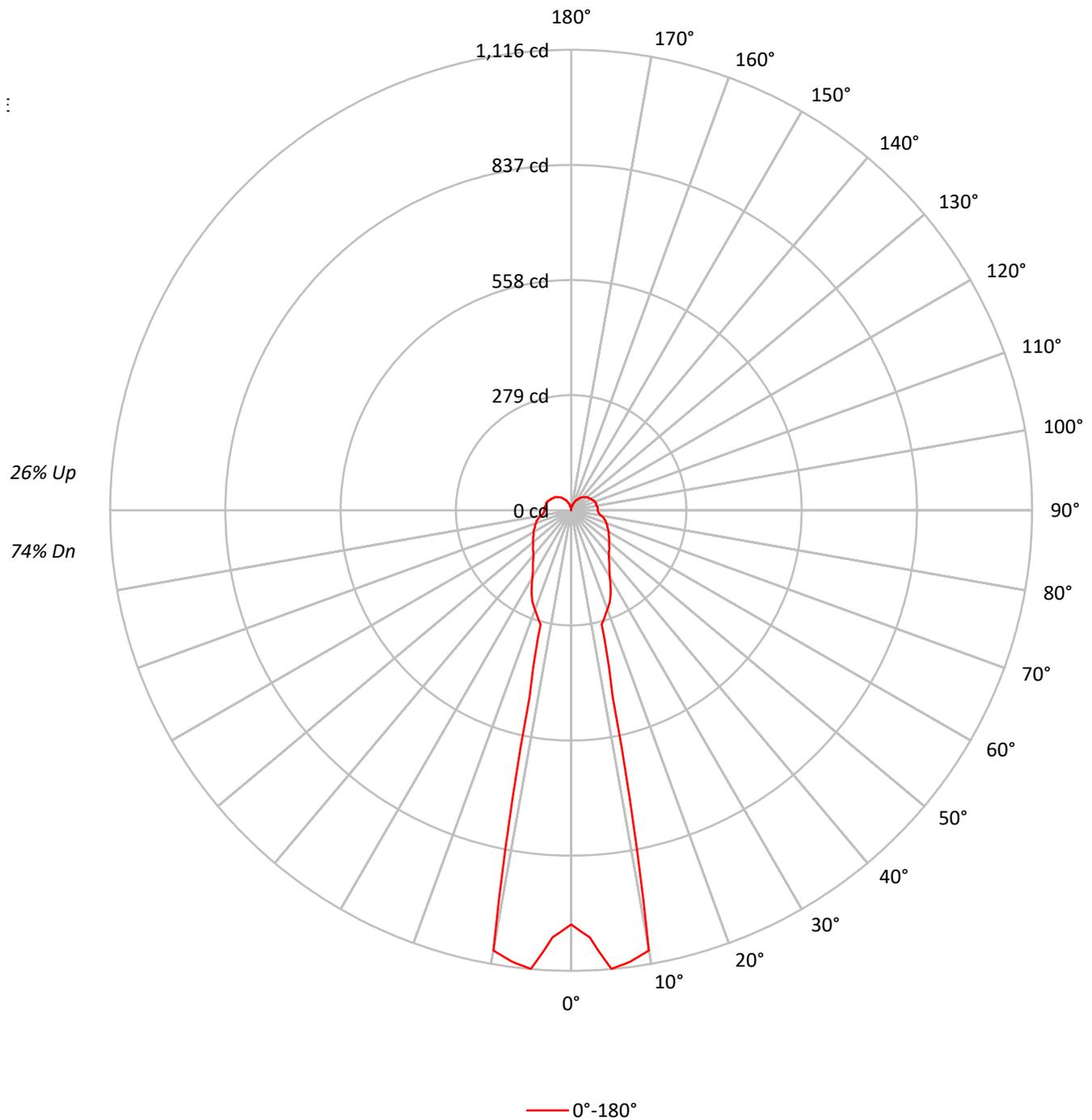
Lumens per Lamp: N/A
Luminaire Lumens: 1192.0 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 28.9
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	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°	31757
5°	31340
10°	27555
15°	6691
20°	5582
25°	4647
30°	3671
35°	3046
40°	2603
45°	2355
50°	2134
55°	1970
60°	1860
65°	1724
70°	1639
75°	1560
80°	1408
85°	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2355 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	8.7
10°-20°	110.4	9.3
20°-30°	102.8	8.6
30°-40°	101.2	8.5
40°-50°	100.9	8.5
50°-60°	100.4	8.4
60°-70°	96.7	8.1
70°-80°	88.0	7.4
80°-90°	73.3	6.1
90°-100°	70.1	5.9
100°-110°	65.6	5.5
110°-120°	57.6	4.8
120°-130°	47.0	3.9
130°-140°	35.0	2.9
140°-150°	22.6	1.9
150°-160°	11.7	1.0
160°-170°	4.0	0.3
170°-180°	0.4	0.0
0°-30°	317.2	26.6
0°-40°	418.5	35.1
0°-60°	619.8	52.0
0°-90°	877.8	73.6
90°-120°	193.4	16.2
90°-150°	298.0	25.0
90°-180°	314.0	26.3
0°-180°	1192.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1004	
5°	1116	104
15°	286	110
25°	226	103
35°	161	101
45°	131	101
55°	112	100
65°	97	97
75°	84	88
85°	67	56
90°	64	35
95°	64	52
105°	62	66
115°	58	58
125°	52	47
135°	45	35
145°	36	23
155°	26	12
165°	13	4
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1003.8
2.5°	1036.0
5°	1115.6
7.5°	1102.7
10°	1083.3
12.5°	464.3
15°	285.9
17.5°	270.8
20°	255.8
22.5°	242.9
25°	225.7
27.5°	206.3
30°	187.0
32.5°	172.0
35°	161.2
37.5°	150.5
40°	141.9
42.5°	135.4
45°	131.1
47.5°	124.7
50°	120.4
52.5°	116.1
55°	111.8
57.5°	107.5
60°	105.3
62.5°	101.0
65°	96.7
67.5°	94.6
70°	90.3
72.5°	88.1
75°	83.8
77.5°	79.5
80°	73.1
82.5°	68.8
85°	66.6
87.5°	64.5
90°	64.5
92.5°	64.5
95°	64.5
97.5°	64.5
100°	62.3
102.5°	62.3
105°	62.3
107.5°	62.3
110°	60.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	60.2
115°	58.0
117.5°	55.9
120°	55.9
122.5°	53.7
125°	51.6
127.5°	51.6
130°	49.4
132.5°	47.3
135°	45.1
137.5°	43.0
140°	40.8
142.5°	38.7
145°	36.5
147.5°	32.2
150°	30.1
152.5°	27.9
155°	25.8
157.5°	21.5
160°	19.3
162.5°	17.2
165°	12.9
167.5°	10.7
170°	8.6
172.5°	4.3
175°	2.1
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	10.9	12.0	11.6	12.8	13.7	10.9	12.0	11.6	12.8	13.7
	3H	13.2	14.3	13.9	15.0	15.9	13.2	14.3	13.9	15.0	15.9
	4H	14.3	15.3	15.0	16.0	17.0	14.3	15.3	15.0	16.0	17.0
	6H	15.3	16.2	16.0	16.9	17.9	15.3	16.2	16.0	16.9	17.9
	8H	15.7	16.6	16.4	17.4	18.3	15.7	16.6	16.4	17.4	18.3
	12H	16.1	16.9	16.9	17.7	18.7	16.1	16.9	16.9	17.7	18.7
4H	2H	11.5	12.5	12.2	13.2	14.2	11.5	12.5	12.2	13.2	14.2
	3H	14.0	14.9	14.8	15.7	16.6	14.0	14.9	14.8	15.7	16.6
	4H	15.2	16.0	16.0	16.8	17.8	15.2	16.0	16.0	16.8	17.8
	6H	16.4	17.1	17.2	17.9	18.9	16.4	17.1	17.2	17.9	18.9
	8H	16.9	17.5	17.7	18.4	19.3	16.9	17.5	17.7	18.4	19.3
	12H	17.4	18.0	18.2	18.8	19.8	17.4	18.0	18.2	18.8	19.8
8H	4H	15.6	16.3	16.4	17.1	18.1	15.6	16.3	16.4	17.1	18.1
	6H	16.9	17.5	17.8	18.3	19.3	16.9	17.5	17.8	18.3	19.3
	8H	17.6	18.1	18.4	18.9	19.9	17.6	18.1	18.4	18.9	19.9
	12H	18.2	18.7	19.1	19.5	20.6	18.2	18.7	19.1	19.5	20.6
12H	4H	15.7	16.3	16.5	17.1	18.1	15.7	16.3	16.5	17.1	18.1
	6H	17.1	17.6	17.9	18.4	19.4	17.1	17.6	17.9	18.4	19.4
	8H	17.8	18.2	18.6	19.1	20.1	17.8	18.2	18.6	19.1	20.1

(END OF REPORT)