

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: P1245283

Luminaire Tested: PRLX-NIM-S-940-12L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245283
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-940-12L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

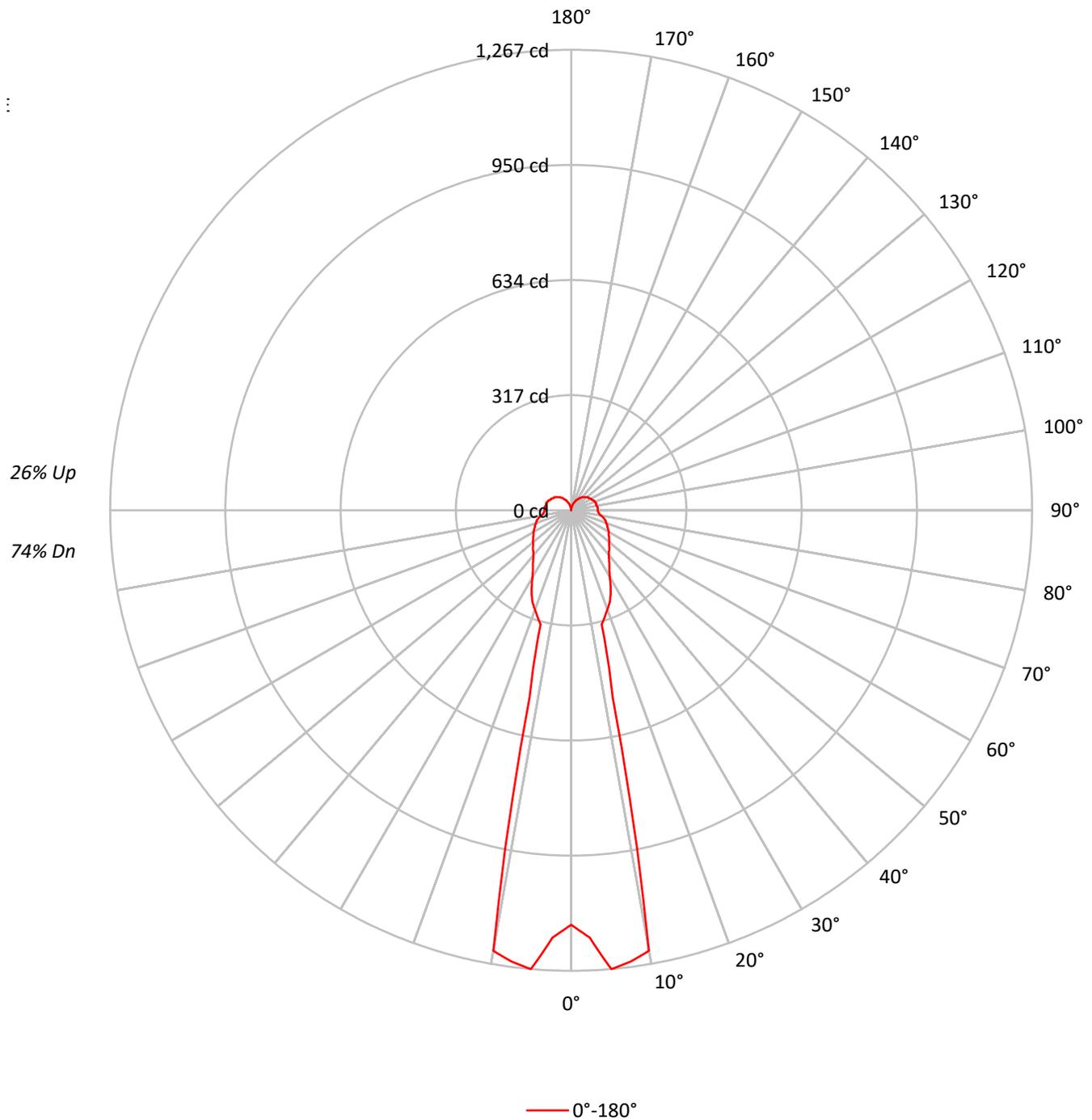
Lumens per Lamp: N/A
Luminaire Lumens: 1353.9 lumens
Efficiency: N/A
Efficacy: 46.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	36072
5°	35599
10°	31302
15°	7599
20°	6339
25°	5279
30°	4169
35°	3459
40°	2955
45°	2674
50°	2423
55°	2238
60°	2112
65°	1960
70°	1860
75°	1772
80°	1599
85°	1523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	8.7
10°-20°	125.4	9.3
20°-30°	116.7	8.6
30°-40°	115.0	8.5
40°-50°	114.6	8.5
50°-60°	114.0	8.4
60°-70°	109.9	8.1
70°-80°	100.0	7.4
80°-90°	83.2	6.1
90°-100°	79.5	5.9
100°-110°	74.6	5.5
110°-120°	65.5	4.8
120°-130°	53.4	3.9
130°-140°	39.8	2.9
140°-150°	25.7	1.9
150°-160°	13.3	1.0
160°-170°	4.6	0.3
170°-180°	0.4	0.0
0°-30°	360.3	26.6
0°-40°	475.3	35.1
0°-60°	703.9	52.0
0°-90°	997.0	73.6
90°-120°	219.6	16.2
90°-150°	338.5	25.0
90°-180°	357.0	26.4
0°-180°	1353.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1140	
5°	1267	118
15°	325	125
25°	256	117
35°	183	115
45°	149	115
55°	127	114
65°	110	110
75°	95	100
85°	76	63
90°	73	40
95°	73	59
105°	71	75
115°	66	65
125°	59	53
135°	51	40
145°	42	26
155°	29	13
165°	15	5
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1140.2
2.5°	1176.8
5°	1267.2
7.5°	1252.5
10°	1230.6
12.5°	527.4
15°	324.7
17.5°	307.6
20°	290.5
22.5°	275.9
25°	256.4
27.5°	234.4
30°	212.4
32.5°	195.3
35°	183.1
37.5°	170.9
40°	161.1
42.5°	153.8
45°	148.9
47.5°	141.6
50°	136.7
52.5°	131.8
55°	127.0
57.5°	122.1
60°	119.6
62.5°	114.8
65°	109.9
67.5°	107.4
70°	102.5
72.5°	100.1
75°	95.2
77.5°	90.3
80°	83.0
82.5°	78.1
85°	75.7
87.5°	73.2
90°	73.2
92.5°	73.2
95°	73.2
97.5°	73.2
100°	70.8
102.5°	70.8
105°	70.8
107.5°	70.8
110°	68.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	68.4
115°	65.9
117.5°	63.5
120°	63.5
122.5°	61.0
125°	58.6
127.5°	58.6
130°	56.2
132.5°	53.7
135°	51.3
137.5°	48.8
140°	46.4
142.5°	43.9
145°	41.5
147.5°	36.6
150°	34.2
152.5°	31.7
155°	29.3
157.5°	24.4
160°	22.0
162.5°	19.5
165°	14.6
167.5°	12.2
170°	9.8
172.5°	4.9
175°	2.4
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	11.3	12.5	12.1	13.2	14.1	11.3	12.5	12.1	13.2	14.1
	3H	13.7	14.7	14.4	15.4	16.4	13.7	14.7	14.4	15.4	16.4
	4H	14.7	15.7	15.5	16.5	17.4	14.7	15.7	15.5	16.5	17.4
	6H	15.7	16.6	16.5	17.4	18.3	15.7	16.6	16.5	17.4	18.3
	8H	16.1	17.0	16.9	17.8	18.7	16.1	17.0	16.9	17.8	18.7
	12H	16.5	17.4	17.3	18.2	19.1	16.5	17.4	17.3	18.2	19.1
4H	2H	11.9	12.9	12.7	13.7	14.6	11.9	12.9	12.7	13.7	14.6
	3H	14.5	15.3	15.2	16.1	17.1	14.5	15.3	15.2	16.1	17.1
	4H	15.7	16.5	16.5	17.3	18.2	15.7	16.5	16.5	17.3	18.2
	6H	16.8	17.5	17.6	18.3	19.3	16.8	17.5	17.6	18.3	19.3
	8H	17.3	18.0	18.1	18.8	19.8	17.3	18.0	18.1	18.8	19.8
	12H	17.8	18.4	18.7	19.3	20.3	17.8	18.4	18.7	19.3	20.3
8H	4H	16.1	16.7	16.9	17.5	18.5	16.1	16.7	16.9	17.5	18.5
	6H	17.4	17.9	18.2	18.8	19.8	17.4	17.9	18.2	18.8	19.8
	8H	18.0	18.5	18.8	19.4	20.4	18.0	18.5	18.8	19.4	20.4
	12H	18.7	19.1	19.5	20.0	21.0	18.7	19.1	19.5	20.0	21.0
12H	4H	16.1	16.7	17.0	17.6	18.6	16.1	16.7	17.0	17.6	18.6
	6H	17.5	18.0	18.3	18.8	19.9	17.5	18.0	18.3	18.8	19.9
	8H	18.2	18.7	19.0	19.5	20.6	18.2	18.7	19.0	19.5	20.6

(END OF REPORT)