

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: P1245219

Luminaire Tested: PRLX-NIM-S-927-09L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245219
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-927-09L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

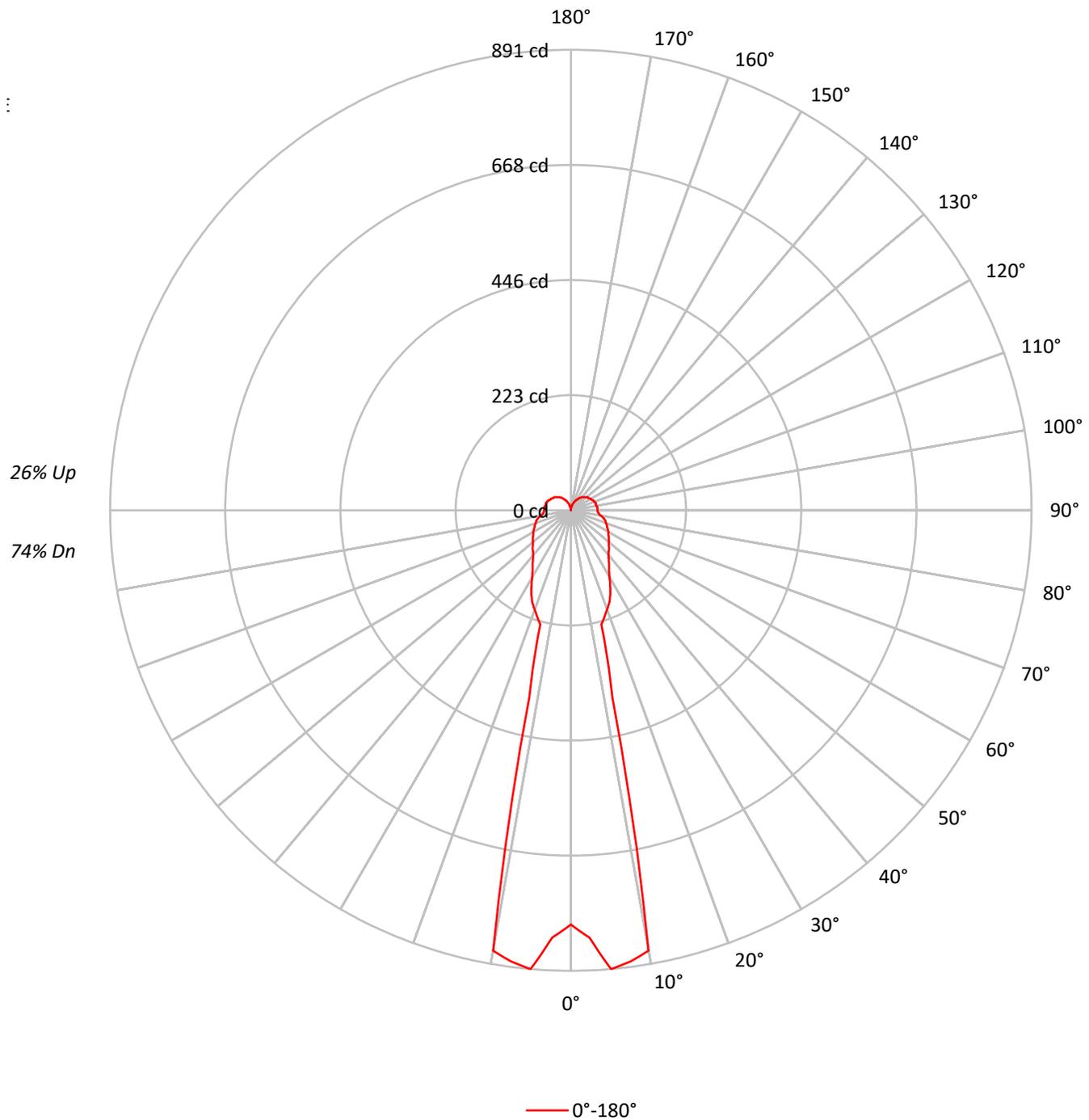
Lumens per Lamp: N/A
Luminaire Lumens: 952.1 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 21.3
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°	25363
5°	25030
10°	22008
15°	5343
20°	4458
25°	3712
30°	2933
35°	2433
40°	2078
45°	1880
50°	1703
55°	1574
60°	1485
65°	1378
70°	1308
75°	1247
80°	1125
85°	1070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1880 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	8.7
10°-20°	88.2	9.3
20°-30°	82.1	8.6
30°-40°	80.9	8.5
40°-50°	80.6	8.5
50°-60°	80.2	8.4
60°-70°	77.3	8.1
70°-80°	70.3	7.4
80°-90°	58.5	6.1
90°-100°	56.0	5.9
100°-110°	52.5	5.5
110°-120°	46.1	4.8
120°-130°	37.6	3.9
130°-140°	28.0	2.9
140°-150°	18.0	1.9
150°-160°	9.4	1.0
160°-170°	3.2	0.3
170°-180°	0.3	0.0
0°-30°	253.4	26.6
0°-40°	334.2	35.1
0°-60°	495.0	52.0
0°-90°	701.1	73.6
90°-120°	154.5	16.2
90°-150°	238.1	25.0
90°-180°	251.0	26.4
0°-180°	952.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	802	
5°	891	83
15°	228	88
25°	180	82
35°	129	81
45°	105	81
55°	89	80
65°	77	77
75°	67	70
85°	53	44
90°	52	28
95°	52	42
105°	50	52
115°	46	46
125°	41	38
135°	36	28
145°	29	18
155°	21	9
165°	10	3
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	801.7
2.5°	827.4
5°	891.0
7.5°	880.7
10°	865.2
12.5°	370.8
15°	228.3
17.5°	216.3
20°	204.3
22.5°	194.0
25°	180.3
27.5°	164.8
30°	149.4
32.5°	137.3
35°	128.8
37.5°	120.2
40°	113.3
42.5°	108.2
45°	104.7
47.5°	99.6
50°	96.1
52.5°	92.7
55°	89.3
57.5°	85.8
60°	84.1
62.5°	80.7
65°	77.3
67.5°	75.5
70°	72.1
72.5°	70.4
75°	67.0
77.5°	63.5
80°	58.4
82.5°	54.9
85°	53.2
87.5°	51.5
90°	51.5
92.5°	51.5
95°	51.5
97.5°	51.5
100°	49.8
102.5°	49.8
105°	49.8
107.5°	49.8
110°	48.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	48.1
115°	46.4
117.5°	44.6
120°	44.6
122.5°	42.9
125°	41.2
127.5°	41.2
130°	39.5
132.5°	37.8
135°	36.1
137.5°	34.3
140°	32.6
142.5°	30.9
145°	29.2
147.5°	25.8
150°	24.0
152.5°	22.3
155°	20.6
157.5°	17.2
160°	15.5
162.5°	13.7
165°	10.3
167.5°	8.6
170°	6.9
172.5°	3.4
175°	1.7
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	10.1	11.3	10.8	12.0	12.9	10.1	11.3	10.8	12.0	12.9
	3H	12.4	13.5	13.2	14.2	15.1	12.4	13.5	13.2	14.2	15.1
	4H	13.5	14.5	14.2	15.3	16.2	13.5	14.5	14.2	15.3	16.2
	6H	14.5	15.4	15.2	16.2	17.1	14.5	15.4	15.2	16.2	17.1
	8H	14.9	15.8	15.7	16.6	17.5	14.9	15.8	15.7	16.6	17.5
	12H	15.3	16.2	16.1	16.9	17.9	15.3	16.2	16.1	16.9	17.9
4H	2H	10.7	11.7	11.5	12.5	13.4	10.7	11.7	11.5	12.5	13.4
	3H	13.2	14.1	14.0	14.9	15.8	13.2	14.1	14.0	14.9	15.8
	4H	14.5	15.2	15.2	16.0	17.0	14.5	15.2	15.2	16.0	17.0
	6H	15.6	16.3	16.4	17.1	18.1	15.6	16.3	16.4	17.1	18.1
	8H	16.1	16.8	16.9	17.6	18.6	16.1	16.8	16.9	17.6	18.6
	12H	16.6	17.2	17.4	18.0	19.0	16.6	17.2	17.4	18.0	19.0
8H	4H	14.9	15.5	15.7	16.3	17.3	14.9	15.5	15.7	16.3	17.3
	6H	16.2	16.7	17.0	17.6	18.6	16.2	16.7	17.0	17.6	18.6
	8H	16.8	17.3	17.6	18.1	19.2	16.8	17.3	17.6	18.1	19.2
	12H	17.5	17.9	18.3	18.8	19.8	17.5	17.9	18.3	18.8	19.8
12H	4H	14.9	15.5	15.7	16.3	17.3	14.9	15.5	15.7	16.3	17.3
	6H	16.3	16.8	17.1	17.6	18.7	16.3	16.8	17.1	17.6	18.7
	8H	17.0	17.4	17.8	18.3	19.3	17.0	17.4	17.8	18.3	19.3

(END OF REPORT)