

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: P1245279

Luminaire Tested: PRLX-NIM-S-940-09L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245279
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-940-09L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

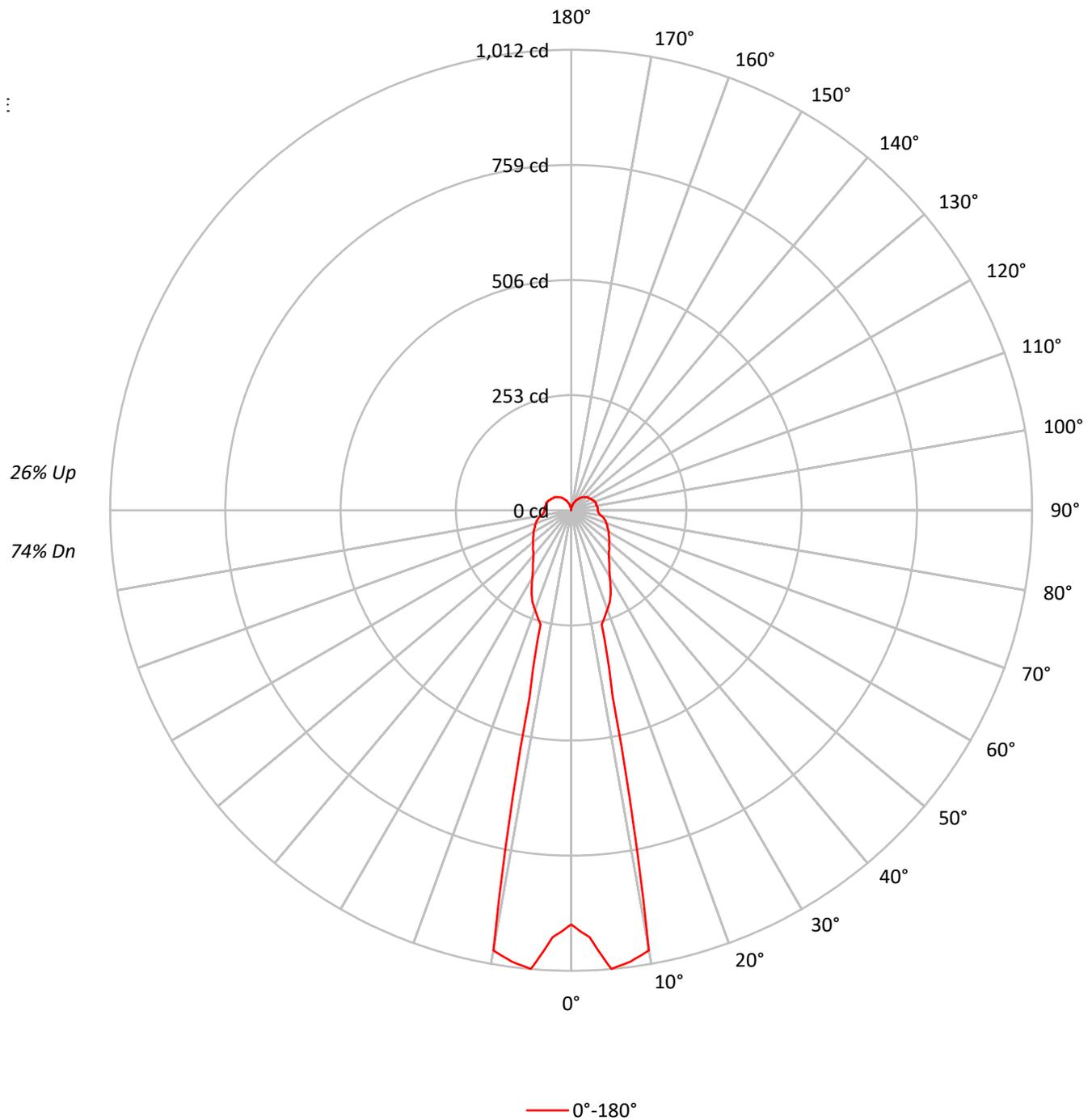
Lumens per Lamp: N/A
Luminaire Lumens: 1081.0 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 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°	28799
5°	28421
10°	24989
15°	6068
20°	5063
25°	4215
30°	3329
35°	2762
40°	2361
45°	2135
50°	1935
55°	1787
60°	1687
65°	1564
70°	1486
75°	1415
80°	1277
85°	1215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2135 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	8.7
10°-20°	100.1	9.3
20°-30°	93.2	8.6
30°-40°	91.8	8.5
40°-50°	91.5	8.5
50°-60°	91.1	8.4
60°-70°	87.7	8.1
70°-80°	79.8	7.4
80°-90°	66.5	6.1
90°-100°	63.6	5.9
100°-110°	59.5	5.5
110°-120°	52.3	4.8
120°-130°	42.7	3.9
130°-140°	31.8	2.9
140°-150°	20.5	1.9
150°-160°	10.6	1.0
160°-170°	3.7	0.3
170°-180°	0.3	0.0
0°-30°	287.7	26.6
0°-40°	379.5	35.1
0°-60°	562.1	52.0
0°-90°	796.1	73.6
90°-120°	175.4	16.2
90°-150°	270.3	25.0
90°-180°	285.0	26.4
0°-180°	1081.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	910	
5°	1012	94
15°	259	100
25°	205	93
35°	146	92
45°	119	92
55°	101	91
65°	88	88
75°	76	80
85°	60	50
90°	58	32
95°	58	48
105°	56	60
115°	53	52
125°	47	43
135°	41	32
145°	33	20
155°	23	11
165°	12	4
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	910.3
2.5°	939.6
5°	1011.7
7.5°	1000.0
10°	982.4
12.5°	421.0
15°	259.3
17.5°	245.6
20°	232.0
22.5°	220.3
25°	204.7
27.5°	187.1
30°	169.6
32.5°	155.9
35°	146.2
37.5°	136.5
40°	128.7
42.5°	122.8
45°	118.9
47.5°	113.1
50°	109.2
52.5°	105.3
55°	101.4
57.5°	97.5
60°	95.5
62.5°	91.6
65°	87.7
67.5°	85.8
70°	81.9
72.5°	79.9
75°	76.0
77.5°	72.1
80°	66.3
82.5°	62.4
85°	60.4
87.5°	58.5
90°	58.5
92.5°	58.5
95°	58.5
97.5°	58.5
100°	56.5
102.5°	56.5
105°	56.5
107.5°	56.5
110°	54.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	54.6
115°	52.6
117.5°	50.7
120°	50.7
122.5°	48.7
125°	46.8
127.5°	46.8
130°	44.8
132.5°	42.9
135°	40.9
137.5°	39.0
140°	37.0
142.5°	35.1
145°	33.1
147.5°	29.2
150°	27.3
152.5°	25.3
155°	23.4
157.5°	19.5
160°	17.5
162.5°	15.6
165°	11.7
167.5°	9.7
170°	7.8
172.5°	3.9
175°	1.9
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	10.6	11.7	11.3	12.5	13.3	10.6	11.7	11.3	12.5	13.3
	3H	12.9	13.9	13.6	14.7	15.6	12.9	13.9	13.6	14.7	15.6
	4H	13.9	14.9	14.7	15.7	16.6	13.9	14.9	14.7	15.7	16.6
	6H	14.9	15.8	15.7	16.6	17.6	14.9	15.8	15.7	16.6	17.6
	8H	15.3	16.2	16.1	17.0	18.0	15.3	16.2	16.1	17.0	18.0
	12H	15.8	16.6	16.5	17.4	18.4	15.8	16.6	16.5	17.4	18.4
4H	2H	11.2	12.1	11.9	12.9	13.8	11.2	12.1	11.9	12.9	13.8
	3H	13.7	14.5	14.4	15.3	16.3	13.7	14.5	14.4	15.3	16.3
	4H	14.9	15.7	15.7	16.5	17.5	14.9	15.7	15.7	16.5	17.5
	6H	16.0	16.7	16.8	17.5	18.5	16.0	16.7	16.8	17.5	18.5
	8H	16.5	17.2	17.3	18.0	19.0	16.5	17.2	17.3	18.0	19.0
	12H	17.1	17.7	17.9	18.5	19.5	17.1	17.7	17.9	18.5	19.5
8H	4H	15.3	15.9	16.1	16.8	17.8	15.3	15.9	16.1	16.8	17.8
	6H	16.6	17.2	17.4	18.0	19.0	16.6	17.2	17.4	18.0	19.0
	8H	17.2	17.7	18.1	18.6	19.6	17.2	17.7	18.1	18.6	19.6
	12H	17.9	18.3	18.7	19.2	20.3	17.9	18.3	18.7	19.2	20.3
12H	4H	15.4	15.9	16.2	16.8	17.8	15.4	15.9	16.2	16.8	17.8
	6H	16.7	17.2	17.6	18.1	19.1	16.7	17.2	17.6	18.1	19.1
	8H	17.4	17.9	18.3	18.7	19.8	17.4	17.9	18.3	18.7	19.8

(END OF REPORT)