

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: P1245280

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245280
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-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL LINES SHADE TEXTURE, LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

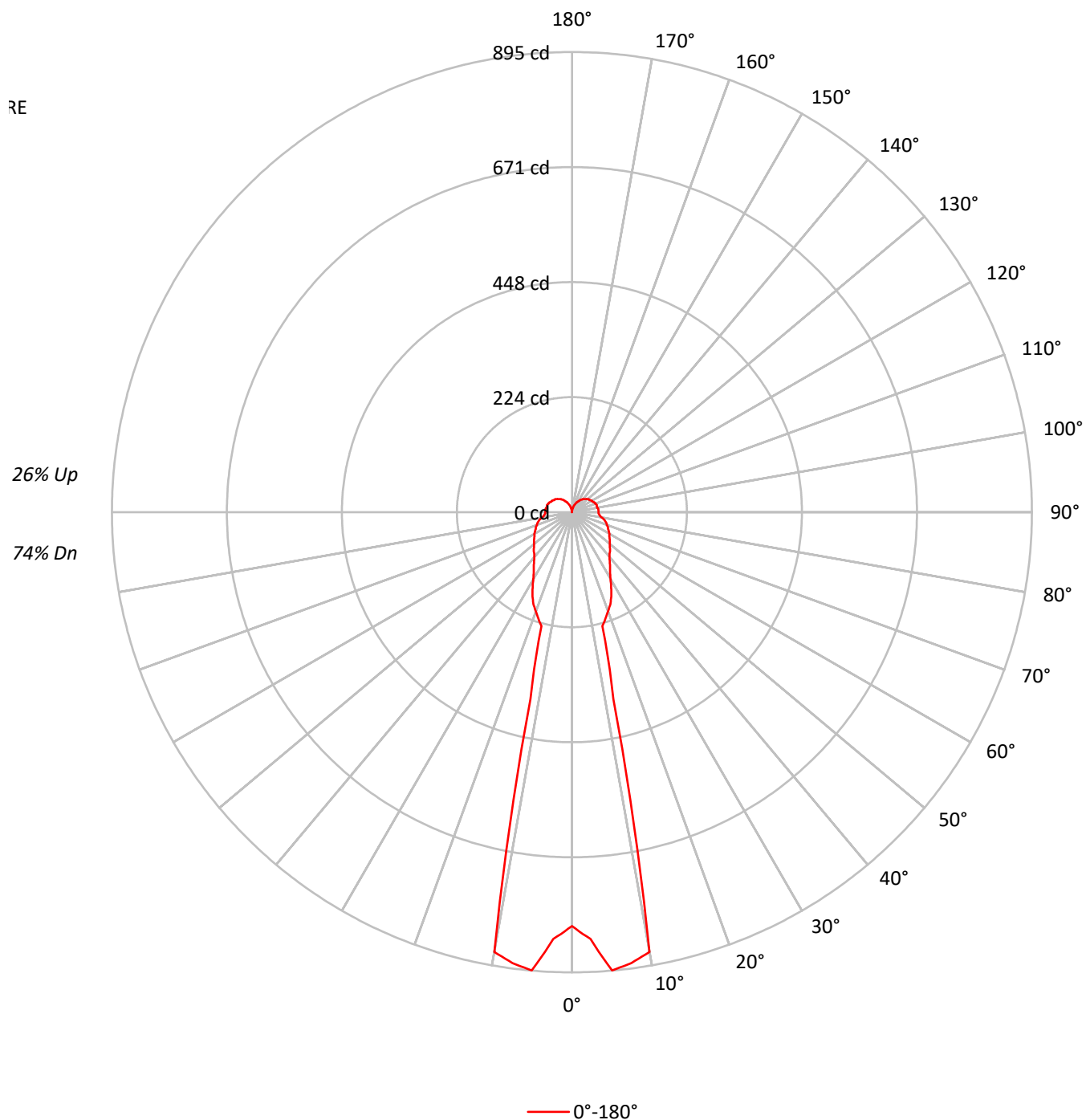
Lumens per Lamp: N/A
Luminaire Lumens: 956.0 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

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			
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°	25470
5°	25134
10°	22099
15°	5366
20°	4476
25°	3727
30°	2945
35°	2443
40°	2088
45°	1889
50°	1710
55°	1579
60°	1492
65°	1384
70°	1314
75°	1251
80°	1129
85°	1074

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	8.7
10°-20°	88.5	9.3
20°-30°	82.4	8.6
30°-40°	81.2	8.5
40°-50°	80.9	8.5
50°-60°	80.5	8.4
60°-70°	77.6	8.1
70°-80°	70.6	7.4
80°-90°	58.8	6.1
90°-100°	56.2	5.9
100°-110°	52.7	5.5
110°-120°	46.2	4.8
120°-130°	37.7	3.9
130°-140°	28.1	2.9
140°-150°	18.1	1.9
150°-160°	9.4	1.0
160°-170°	3.2	0.3
170°-180°	0.3	0.0
0°-30°	254.4	26.6
0°-40°	335.6	35.1
0°-60°	497.0	52.0
0°-90°	704.0	73.6
90°-120°	155.1	16.2
90°-150°	239.0	25.0
90°-180°	252.0	26.4
0°-180°	956.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	805	
5°	895	83
15°	229	89
25°	181	82
35°	129	81
45°	105	81
55°	90	81
65°	78	78
75°	67	71
85°	53	45
90°	52	28
95°	52	42
105°	50	53
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°	805.1
2.5°	830.9
5°	894.7
7.5°	884.4
10°	868.8
12.5°	372.4
15°	229.3
17.5°	217.2
20°	205.1
22.5°	194.8
25°	181.0
27.5°	165.5
30°	150.0
32.5°	137.9
35°	129.3
37.5°	120.7
40°	113.8
42.5°	108.6
45°	105.2
47.5°	100.0
50°	96.5
52.5°	93.1
55°	89.6
57.5°	86.2
60°	84.5
62.5°	81.0
65°	77.6
67.5°	75.9
70°	72.4
72.5°	70.7
75°	67.2
77.5°	63.8
80°	58.6
82.5°	55.2
85°	53.4
87.5°	51.7
90°	51.7
92.5°	51.7
95°	51.7
97.5°	51.7
100°	50.0
102.5°	50.0
105°	50.0
107.5°	50.0
110°	48.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	48.3
115°	46.5
117.5°	44.8
120°	44.8
122.5°	43.1
125°	41.4
127.5°	41.4
130°	39.6
132.5°	37.9
135°	36.2
137.5°	34.5
140°	32.8
142.5°	31.0
145°	29.3
147.5°	25.9
150°	24.1
152.5°	22.4
155°	20.7
157.5°	17.2
160°	15.5
162.5°	13.8
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	10.9	12.0	12.9	10.1	11.3	10.9	12.0	12.9
	3H	12.4	13.5	13.2	14.2	15.2	12.4	13.5	13.2	14.2	15.2
	4H	13.5	14.5	14.3	15.3	16.2	13.5	14.5	14.3	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	17.0	17.9	15.3	16.2	16.1	17.0	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	13.3	14.1	14.0	14.9	15.9	13.3	14.1	14.0	14.9	15.9
	4H	14.5	15.3	15.3	16.1	17.0	14.5	15.3	15.3	16.1	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	18.1	19.1	16.6	17.2	17.4	18.1	19.1
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	18.2	19.2	16.8	17.3	17.6	18.2	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	16.4	17.4	14.9	15.5	15.7	16.4	17.4
	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	19.4	17.0	17.4	17.8	18.3	19.4

(END OF REPORT)