

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: P1245282

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245282
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-WO
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, WOVEN OVAL SHADE TEXTURE LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

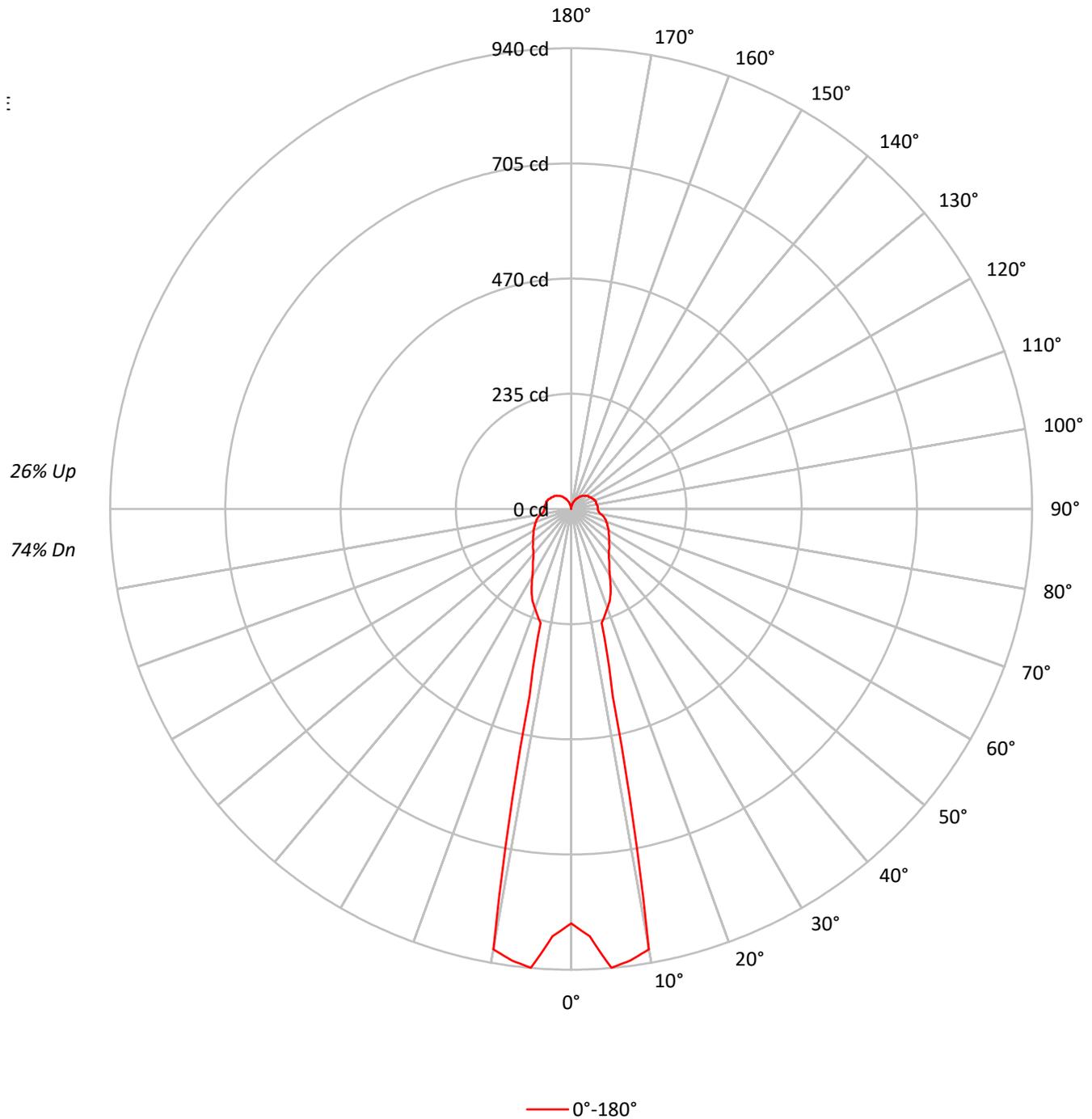
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1004.0 lumens
Efficiency: N/A
Efficacy: 47.1 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°	26749
5°	26395
10°	23211
15°	5635
20°	4701
25°	3914
30°	3092
35°	2566
40°	2192
45°	1983
50°	1797
55°	1658
60°	1566
65°	1453
70°	1379
75°	1314
80°	1187
85°	1129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	8.7
10°-20°	93.0	9.3
20°-30°	86.6	8.6
30°-40°	85.3	8.5
40°-50°	85.0	8.5
50°-60°	84.5	8.4
60°-70°	81.5	8.1
70°-80°	74.2	7.4
80°-90°	61.7	6.1
90°-100°	59.0	5.9
100°-110°	55.3	5.5
110°-120°	48.6	4.8
120°-130°	39.7	4.0
130°-140°	29.5	2.9
140°-150°	19.0	1.9
150°-160°	9.9	1.0
160°-170°	3.4	0.3
170°-180°	0.3	0.0
0°-30°	267.2	26.6
0°-40°	352.4	35.1
0°-60°	522.0	52.0
0°-90°	739.3	73.6
90°-120°	162.9	16.2
90°-150°	251.1	25.0
90°-180°	265.0	26.4
0°-180°	1004.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	846	
5°	940	88
15°	241	93
25°	190	87
35°	136	85
45°	110	85
55°	94	85
65°	82	81
75°	71	74
85°	56	47
90°	54	30
95°	54	44
105°	52	55
115°	49	49
125°	44	40
135°	38	30
145°	31	19
155°	22	10
165°	11	3
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	845.5
2.5°	872.6
5°	939.6
7.5°	928.8
10°	912.5
12.5°	391.1
15°	240.8
17.5°	228.1
20°	215.4
22.5°	204.6
25°	190.1
27.5°	173.8
30°	157.5
32.5°	144.8
35°	135.8
37.5°	126.7
40°	119.5
42.5°	114.1
45°	110.4
47.5°	105.0
50°	101.4
52.5°	97.8
55°	94.1
57.5°	90.5
60°	88.7
62.5°	85.1
65°	81.5
67.5°	79.7
70°	76.0
72.5°	74.2
75°	70.6
77.5°	67.0
80°	61.6
82.5°	57.9
85°	56.1
87.5°	54.3
90°	54.3
92.5°	54.3
95°	54.3
97.5°	54.3
100°	52.5
102.5°	52.5
105°	52.5
107.5°	52.5
110°	50.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	50.7
115°	48.9
117.5°	47.1
120°	47.1
122.5°	45.3
125°	43.5
127.5°	43.5
130°	41.6
132.5°	39.8
135°	38.0
137.5°	36.2
140°	34.4
142.5°	32.6
145°	30.8
147.5°	27.2
150°	25.3
152.5°	23.5
155°	21.7
157.5°	18.1
160°	16.3
162.5°	14.5
165°	10.9
167.5°	9.1
170°	7.2
172.5°	3.6
175°	1.8
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	10.3	11.4	11.0	12.2	13.1	10.3	11.4	11.0	12.2	13.1
	3H	12.6	13.7	13.3	14.4	15.3	12.6	13.7	13.3	14.4	15.3
	4H	13.7	14.7	14.4	15.4	16.4	13.7	14.7	14.4	15.4	16.4
	6H	14.7	15.6	15.4	16.4	17.3	14.7	15.6	15.4	16.4	17.3
	8H	15.1	16.0	15.9	16.8	17.7	15.1	16.0	15.9	16.8	17.7
	12H	15.5	16.3	16.3	17.1	18.1	15.5	16.3	16.3	17.1	18.1
4H	2H	10.9	11.9	11.6	12.7	13.6	10.9	11.9	11.6	12.7	13.6
	3H	13.4	14.3	14.2	15.1	16.0	13.4	14.3	14.2	15.1	16.0
	4H	14.6	15.4	15.4	16.2	17.2	14.6	15.4	15.4	16.2	17.2
	6H	15.8	16.5	16.6	17.3	18.3	15.8	16.5	16.6	17.3	18.3
	8H	16.3	16.9	17.1	17.8	18.7	16.3	16.9	17.1	17.8	18.7
	12H	16.8	17.4	17.6	18.2	19.2	16.8	17.4	17.6	18.2	19.2
8H	4H	15.0	15.7	15.8	16.5	17.5	15.0	15.7	15.8	16.5	17.5
	6H	16.3	16.9	17.2	17.8	18.7	16.3	16.9	17.2	17.8	18.7
	8H	17.0	17.5	17.8	18.3	19.3	17.0	17.5	17.8	18.3	19.3
	12H	17.6	18.1	18.5	18.9	20.0	17.6	18.1	18.5	18.9	20.0
12H	4H	15.1	15.7	15.9	16.5	17.5	15.1	15.7	15.9	16.5	17.5
	6H	16.5	17.0	17.3	17.8	18.8	16.5	17.0	17.3	17.8	18.8
	8H	17.2	17.6	18.0	18.5	19.5	17.2	17.6	18.0	18.5	19.5

(END OF REPORT)