

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: P1245286

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245286
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-WO
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, WOVEN OVAL SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

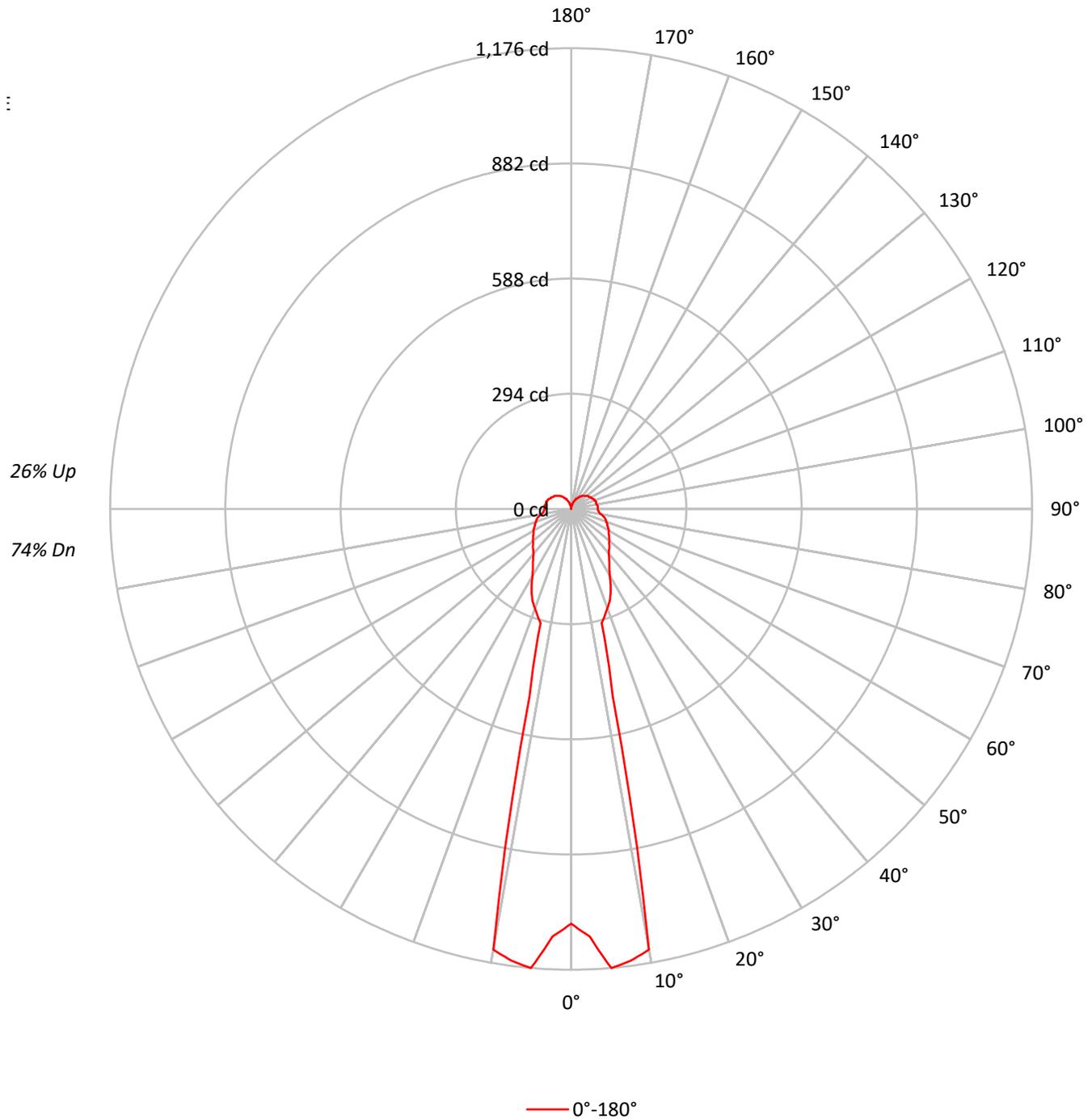
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1257.0 lumens
Efficiency: N/A
Efficacy: 43.5 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°	33487
5°	33048
10°	29058
15°	7056
20°	5886
25°	4900
30°	3871
35°	3212
40°	2744
45°	2484
50°	2249
55°	2078
60°	1962
65°	1819
70°	1728
75°	1646
80°	1485
85°	1414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	8.7
10°-20°	116.4	9.3
20°-30°	108.4	8.6
30°-40°	106.8	8.5
40°-50°	106.4	8.5
50°-60°	105.9	8.4
60°-70°	102.0	8.1
70°-80°	92.9	7.4
80°-90°	77.3	6.1
90°-100°	73.9	5.9
100°-110°	69.2	5.5
110°-120°	60.8	4.8
120°-130°	49.6	3.9
130°-140°	37.0	2.9
140°-150°	23.8	1.9
150°-160°	12.4	1.0
160°-170°	4.3	0.3
170°-180°	0.4	0.0
0°-30°	334.5	26.6
0°-40°	441.3	35.1
0°-60°	653.5	52.0
0°-90°	925.6	73.6
90°-120°	203.9	16.2
90°-150°	314.3	25.0
90°-180°	331.0	26.3
0°-180°	1257.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1058	
5°	1176	110
15°	302	116
25°	238	108
35°	170	107
45°	138	106
55°	118	106
65°	102	102
75°	88	93
85°	70	59
90°	68	37
95°	68	55
105°	66	69
115°	61	61
125°	54	50
135°	48	37
145°	38	24
155°	27	12
165°	14	4
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1058.5
2.5°	1092.5
5°	1176.4
7.5°	1162.8
10°	1142.4
12.5°	489.6
15°	301.5
17.5°	285.6
20°	269.7
22.5°	256.1
25°	238.0
27.5°	217.6
30°	197.2
32.5°	181.3
35°	170.0
37.5°	158.7
40°	149.6
42.5°	142.8
45°	138.3
47.5°	131.5
50°	126.9
52.5°	122.4
55°	117.9
57.5°	113.3
60°	111.1
62.5°	106.5
65°	102.0
67.5°	99.7
70°	95.2
72.5°	92.9
75°	88.4
77.5°	83.9
80°	77.1
82.5°	72.5
85°	70.3
87.5°	68.0
90°	68.0
92.5°	68.0
95°	68.0
97.5°	68.0
100°	65.7
102.5°	65.7
105°	65.7
107.5°	65.7
110°	63.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	63.5
115°	61.2
117.5°	58.9
120°	58.9
122.5°	56.7
125°	54.4
127.5°	54.4
130°	52.1
132.5°	49.9
135°	47.6
137.5°	45.3
140°	43.1
142.5°	40.8
145°	38.5
147.5°	34.0
150°	31.7
152.5°	29.5
155°	27.2
157.5°	22.7
160°	20.4
162.5°	18.1
165°	13.6
167.5°	11.3
170°	9.1
172.5°	4.5
175°	2.3
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	11.1	12.2	11.8	13.0	13.9	11.1	12.2	11.8	13.0	13.9
	3H	13.4	14.4	14.1	15.2	16.1	13.4	14.4	14.1	15.2	16.1
	4H	14.5	15.5	15.2	16.2	17.1	14.5	15.5	15.2	16.2	17.1
	6H	15.4	16.4	16.2	17.1	18.1	15.4	16.4	16.2	17.1	18.1
	8H	15.9	16.7	16.6	17.5	18.5	15.9	16.7	16.6	17.5	18.5
	12H	16.3	17.1	17.1	17.9	18.9	16.3	17.1	17.1	17.9	18.9
4H	2H	11.7	12.7	12.4	13.4	14.4	11.7	12.7	12.4	13.4	14.4
	3H	14.2	15.1	15.0	15.9	16.8	14.2	15.1	15.0	15.9	16.8
	4H	15.4	16.2	16.2	17.0	18.0	15.4	16.2	16.2	17.0	18.0
	6H	16.6	17.3	17.4	18.1	19.1	16.6	17.3	17.4	18.1	19.1
	8H	17.1	17.7	17.9	18.5	19.5	17.1	17.7	17.9	18.5	19.5
	12H	17.6	18.2	18.4	19.0	20.0	17.6	18.2	18.4	19.0	20.0
8H	4H	15.8	16.5	16.6	17.3	18.3	15.8	16.5	16.6	17.3	18.3
	6H	17.1	17.7	17.9	18.5	19.5	17.1	17.7	17.9	18.5	19.5
	8H	17.8	18.3	18.6	19.1	20.1	17.8	18.3	18.6	19.1	20.1
	12H	18.4	18.9	19.3	19.7	20.8	18.4	18.9	19.3	19.7	20.8
12H	4H	15.9	16.5	16.7	17.3	18.3	15.9	16.5	16.7	17.3	18.3
	6H	17.2	17.7	18.1	18.6	19.6	17.2	17.7	18.1	18.6	19.6
	8H	17.9	18.4	18.8	19.2	20.3	17.9	18.4	18.8	19.2	20.3

(END OF REPORT)