

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: P1245278

Luminaire Tested: PRLX-NIM-S-940-07L-U-WO

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245278
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-940-07L-U-WO
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, WOVEN OVAL SHADE TEXTURE LIGHT LEVEL 3
Light Source: -
Ballast/Driver: -

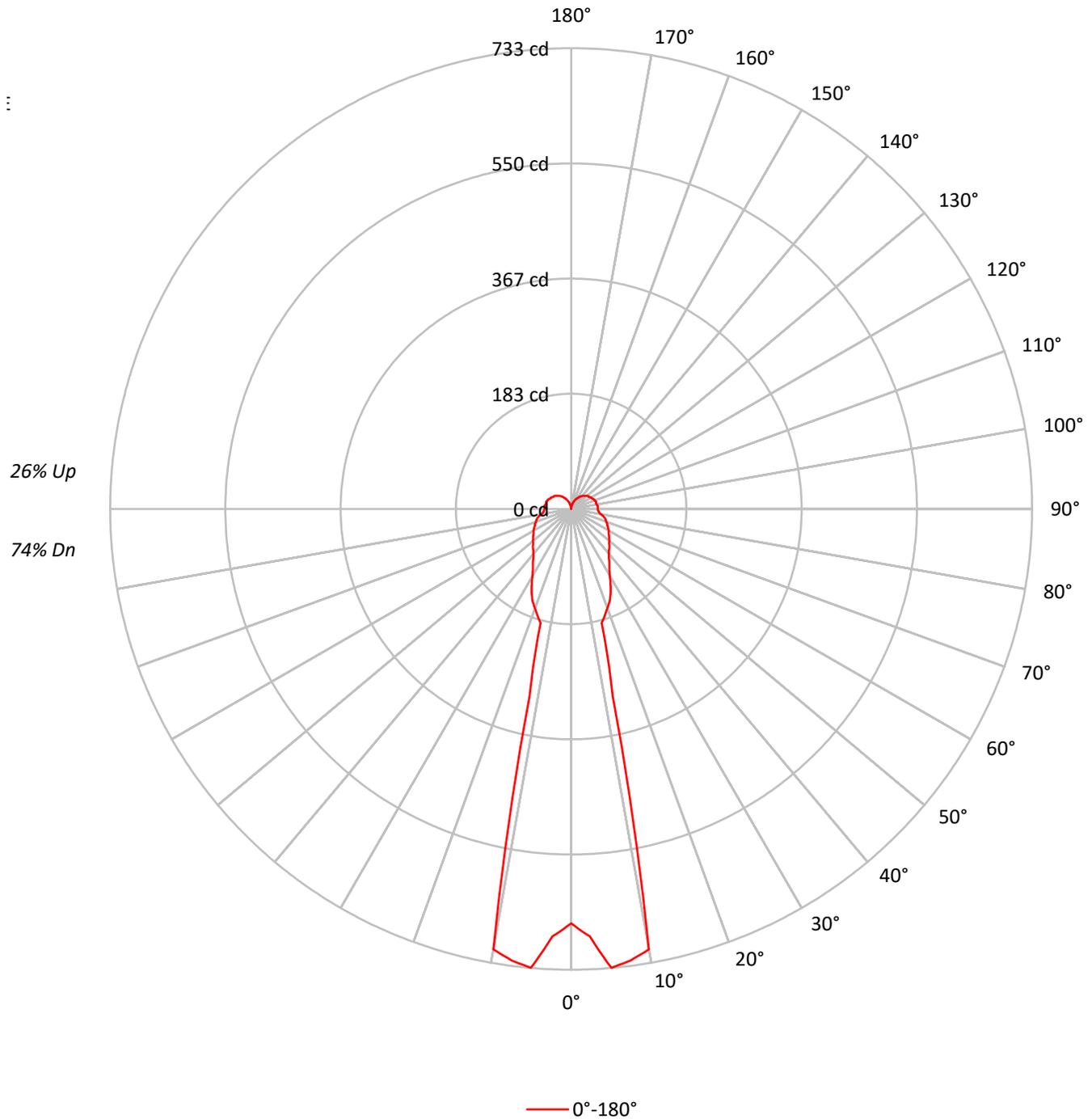
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 783.0 lumens
Efficiency: N/A
Efficacy: 48.3 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): 16.2
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°	20861
5°	20586
10°	18100
15°	4395
20°	3666
25°	3053
30°	2411
35°	2001
40°	1710
45°	1546
50°	1402
55°	1294
60°	1222
65°	1132
70°	1076
75°	1026
80°	925
85°	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1546 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	8.7
10°-20°	72.5	9.3
20°-30°	67.5	8.6
30°-40°	66.5	8.5
40°-50°	66.3	8.5
50°-60°	65.9	8.4
60°-70°	63.5	8.1
70°-80°	57.8	7.4
80°-90°	48.2	6.2
90°-100°	46.1	5.9
100°-110°	43.1	5.5
110°-120°	37.8	4.8
120°-130°	30.9	3.9
130°-140°	23.0	2.9
140°-150°	14.8	1.9
150°-160°	7.7	1.0
160°-170°	2.7	0.3
170°-180°	0.3	0.0
0°-30°	208.4	26.6
0°-40°	274.9	35.1
0°-60°	407.1	52.0
0°-90°	576.6	73.6
90°-120°	127.0	16.2
90°-150°	195.8	25.0
90°-180°	206.0	26.3
0°-180°	783.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	659	
5°	733	68
15°	188	73
25°	148	67
35°	106	66
45°	86	66
55°	73	66
65°	64	64
75°	55	58
85°	44	37
90°	42	23
95°	42	34
105°	41	43
115°	38	38
125°	34	31
135°	30	23
145°	24	15
155°	17	8
165°	8	3
175°	1	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	659.4
2.5°	680.6
5°	732.8
7.5°	724.3
10°	711.6
12.5°	305.0
15°	187.8
17.5°	177.9
20°	168.0
22.5°	159.5
25°	148.3
27.5°	135.5
30°	122.8
32.5°	113.0
35°	105.9
37.5°	98.8
40°	93.2
42.5°	89.0
45°	86.1
47.5°	81.9
50°	79.1
52.5°	76.2
55°	73.4
57.5°	70.6
60°	69.2
62.5°	66.4
65°	63.5
67.5°	62.1
70°	59.3
72.5°	57.9
75°	55.1
77.5°	52.2
80°	48.0
82.5°	45.2
85°	43.8
87.5°	42.4
90°	42.4
92.5°	42.4
95°	42.4
97.5°	42.4
100°	40.9
102.5°	40.9
105°	40.9
107.5°	40.9
110°	39.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	39.5
115°	38.1
117.5°	36.7
120°	36.7
122.5°	35.3
125°	33.9
127.5°	33.9
130°	32.5
132.5°	31.1
135°	29.7
137.5°	28.2
140°	26.8
142.5°	25.4
145°	24.0
147.5°	21.2
150°	19.8
152.5°	18.4
155°	16.9
157.5°	14.1
160°	12.7
162.5°	11.3
165°	8.5
167.5°	7.1
170°	5.6
172.5°	2.8
175°	1.4
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	9.4	10.6	10.2	11.3	12.2	9.4	10.6	10.2	11.3	12.2
	3H	11.7	12.8	12.5	13.5	14.5	11.7	12.8	12.5	13.5	14.5
	4H	12.8	13.8	13.6	14.6	15.5	12.8	13.8	13.6	14.6	15.5
	6H	13.8	14.7	14.6	15.5	16.4	13.8	14.7	14.6	15.5	16.4
	8H	14.2	15.1	15.0	15.9	16.8	14.2	15.1	15.0	15.9	16.8
	12H	14.6	15.5	15.4	16.3	17.2	14.6	15.5	15.4	16.3	17.2
4H	2H	10.0	11.0	10.8	11.8	12.7	10.0	11.0	10.8	11.8	12.7
	3H	12.6	13.4	13.3	14.2	15.2	12.6	13.4	13.3	14.2	15.2
	4H	13.8	14.6	14.6	15.4	16.3	13.8	14.6	14.6	15.4	16.3
	6H	14.9	15.6	15.7	16.4	17.4	14.9	15.6	15.7	16.4	17.4
	8H	15.4	16.1	16.2	16.9	17.9	15.4	16.1	16.2	16.9	17.9
	12H	15.9	16.5	16.8	17.4	18.4	15.9	16.5	16.8	17.4	18.4
8H	4H	14.2	14.8	15.0	15.6	16.6	14.2	14.8	15.0	15.6	16.6
	6H	15.5	16.0	16.3	16.9	17.9	15.5	16.0	16.3	16.9	17.9
	8H	16.1	16.6	16.9	17.5	18.5	16.1	16.6	16.9	17.5	18.5
	12H	16.8	17.2	17.6	18.1	19.1	16.8	17.2	17.6	18.1	19.1
12H	4H	14.2	14.8	15.1	15.7	16.7	14.2	14.8	15.1	15.7	16.7
	6H	15.6	16.1	16.4	16.9	18.0	15.6	16.1	16.4	16.9	18.0
	8H	16.3	16.7	17.1	17.6	18.7	16.3	16.7	17.1	17.6	18.7

(END OF REPORT)