

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: P1245221

Luminaire Tested: PRLX-NIM-S-927-09L-U-NR

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245221
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-927-09L-U-NR
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL RIBS SHADE TEXTURE
LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

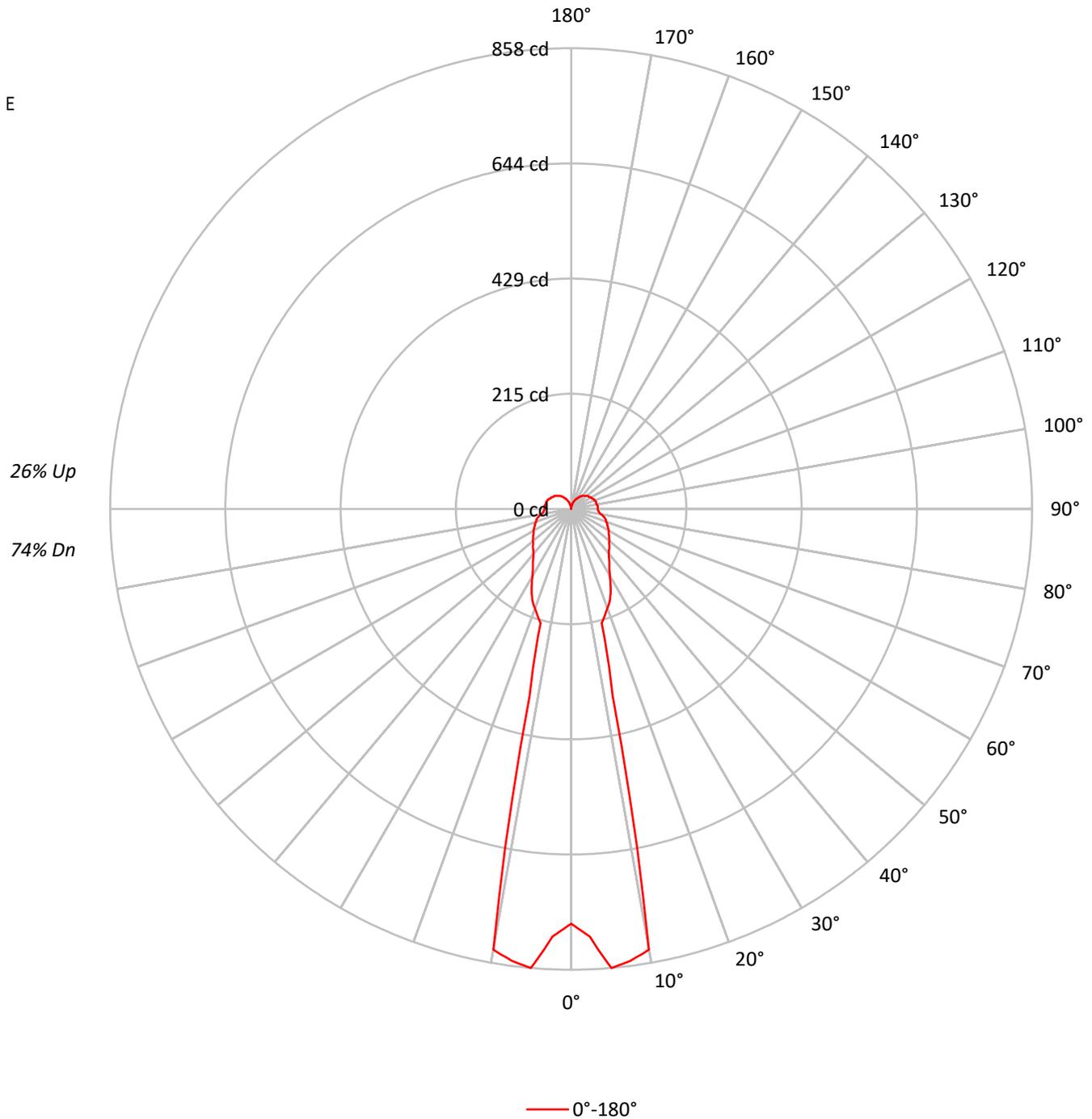
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 917.0 lumens
Efficiency: N/A
Efficacy: 43.1 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 (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°	24430
5°	24109
10°	21199
15°	5146
20°	4295
25°	3574
30°	2825
35°	2343
40°	2001
45°	1812
50°	1641
55°	1516
60°	1430
65°	1327
70°	1259
75°	1201
80°	1083
85°	1032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1812 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	8.7
10°-20°	84.9	9.3
20°-30°	79.1	8.6
30°-40°	77.9	8.5
40°-50°	77.6	8.5
50°-60°	77.2	8.4
60°-70°	74.4	8.1
70°-80°	67.7	7.4
80°-90°	56.4	6.1
90°-100°	53.9	5.9
100°-110°	50.6	5.5
110°-120°	44.3	4.8
120°-130°	36.2	3.9
130°-140°	27.0	2.9
140°-150°	17.4	1.9
150°-160°	9.0	1.0
160°-170°	3.1	0.3
170°-180°	0.3	0.0
0°-30°	244.0	26.6
0°-40°	321.9	35.1
0°-60°	476.8	52.0
0°-90°	675.3	73.6
90°-120°	148.8	16.2
90°-150°	229.3	25.0
90°-180°	242.0	26.4
0°-180°	917.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	772	
5°	858	80
15°	220	85
25°	174	79
35°	124	78
45°	101	78
55°	86	77
65°	74	74
75°	64	68
85°	51	43
90°	50	27
95°	50	40
105°	48	51
115°	45	44
125°	40	36
135°	35	27
145°	28	17
155°	20	9
165°	10	3
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	772.2
2.5°	797.0
5°	858.2
7.5°	848.3
10°	833.4
12.5°	357.2
15°	219.9
17.5°	208.3
20°	196.8
22.5°	186.9
25°	173.6
27.5°	158.7
30°	143.9
32.5°	132.3
35°	124.0
37.5°	115.7
40°	109.1
42.5°	104.2
45°	100.9
47.5°	95.9
50°	92.6
52.5°	89.3
55°	86.0
57.5°	82.7
60°	81.0
62.5°	77.7
65°	74.4
67.5°	72.8
70°	69.4
72.5°	67.8
75°	64.5
77.5°	61.2
80°	56.2
82.5°	52.9
85°	51.3
87.5°	49.6
90°	49.6
92.5°	49.6
95°	49.6
97.5°	49.6
100°	48.0
102.5°	48.0
105°	48.0
107.5°	48.0
110°	46.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	46.3
115°	44.6
117.5°	43.0
120°	43.0
122.5°	41.3
125°	39.7
127.5°	39.7
130°	38.0
132.5°	36.4
135°	34.7
137.5°	33.1
140°	31.4
142.5°	29.8
145°	28.1
147.5°	24.8
150°	23.1
152.5°	21.5
155°	19.8
157.5°	16.5
160°	14.9
162.5°	13.2
165°	9.9
167.5°	8.3
170°	6.6
172.5°	3.3
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	10.0	11.1	10.7	11.9	12.8	10.0	11.1	10.7	11.9	12.8
	3H	12.3	13.3	13.0	14.1	15.0	12.3	13.3	13.0	14.1	15.0
	4H	13.4	14.4	14.1	15.1	16.1	13.4	14.4	14.1	15.1	16.1
	6H	14.3	15.3	15.1	16.0	17.0	14.3	15.3	15.1	16.0	17.0
	8H	14.8	15.6	15.5	16.4	17.4	14.8	15.6	15.5	16.4	17.4
	12H	15.2	16.0	16.0	16.8	17.8	15.2	16.0	16.0	16.8	17.8
4H	2H	10.6	11.6	11.3	12.3	13.3	10.6	11.6	11.3	12.3	13.3
	3H	13.1	14.0	13.9	14.8	15.7	13.1	14.0	13.9	14.8	15.7
	4H	14.3	15.1	15.1	15.9	16.9	14.3	15.1	15.1	15.9	16.9
	6H	15.5	16.2	16.3	17.0	18.0	15.5	16.2	16.3	17.0	18.0
	8H	16.0	16.6	16.8	17.4	18.4	16.0	16.6	16.8	17.4	18.4
	12H	16.5	17.1	17.3	17.9	18.9	16.5	17.1	17.3	17.9	18.9
8H	4H	14.7	15.4	15.5	16.2	17.2	14.7	15.4	15.5	16.2	17.2
	6H	16.0	16.6	16.8	17.4	18.4	16.0	16.6	16.8	17.4	18.4
	8H	16.7	17.2	17.5	18.0	19.0	16.7	17.2	17.5	18.0	19.0
	12H	17.3	17.8	18.2	18.6	19.7	17.3	17.8	18.2	18.6	19.7
12H	4H	14.8	15.4	15.6	16.2	17.2	14.8	15.4	15.6	16.2	17.2
	6H	16.1	16.6	17.0	17.5	18.5	16.1	16.6	17.0	17.5	18.5
	8H	16.9	17.3	17.7	18.1	19.2	16.9	17.3	17.7	18.1	19.2

(END OF REPORT)