

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: P1245455

Luminaire Tested: PRLX-UNA-S-927-12L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-S-927-12L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL LINES SHADE TEXTURE
LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

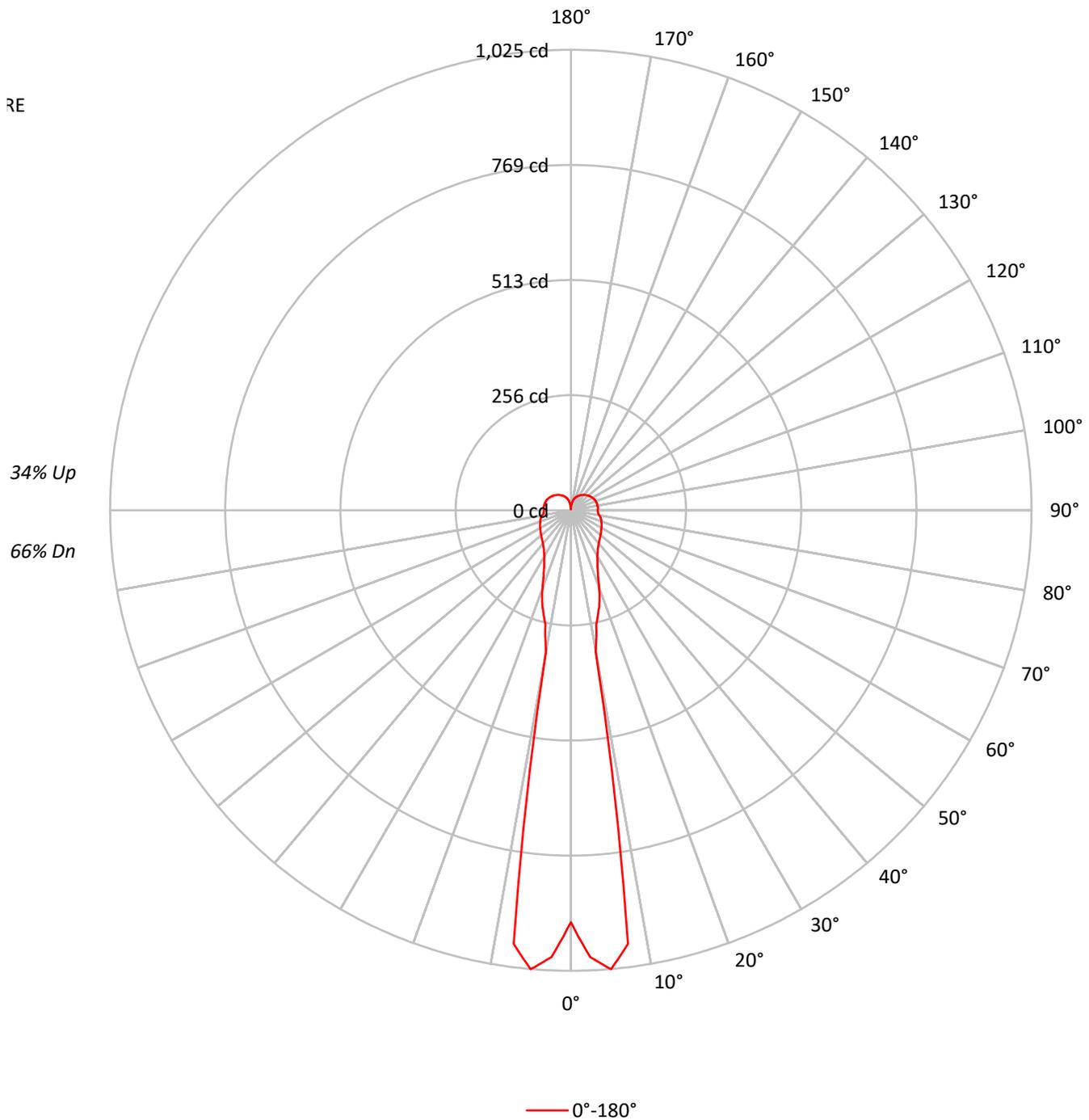
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 959.0 lumens
Efficiency: N/A
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
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	111	111	111	111	105	105	105	105	92	92	92		81	81	81		71	71	71	66
1	99	94	89	84	93	88	84	80	78	74	71		68	65	63		59	57	55	51
2	90	81	74	68	84	77	70	65	68	63	58		59	55	52		52	49	46	42
3	82	72	64	57	77	68	60	55	60	54	49		53	48	44		46	43	40	36
4	76	64	56	49	71	61	53	47	54	48	43		48	43	39		42	38	35	32
5	70	58	49	43	66	55	47	41	49	43	38		44	38	34		38	34	31	28
6	65	53	44	38	61	50	42	37	45	39	34		40	35	31		36	32	28	26
7	61	48	40	35	57	46	39	33	42	35	31		37	32	28		33	29	26	24
8	57	45	37	31	54	43	35	30	39	33	28		35	30	26		31	27	24	22
9	54	42	34	29	51	40	33	28	36	30	26		33	28	24		30	26	23	21
10	51	39	32	27	48	37	31	26	34	28	24		31	26	23		28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44907
5°	41674
10°	11164
15°	7281
20°	5120
25°	3576
30°	2786
35°	2334
40°	2048
45°	1850
50°	1696
55°	1580
60°	1493
65°	1422
70°	1360
75°	1310
80°	1236
85°	1202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1850 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	8.4
10°-20°	66.4	6.9
20°-30°	65.9	6.9
30°-40°	66.2	6.9
40°-50°	70.3	7.3
50°-60°	73.6	7.7
60°-70°	74.8	7.8
70°-80°	72.8	7.6
80°-90°	66.7	7.0
90°-100°	65.9	6.9
100°-110°	63.2	6.6
110°-120°	57.1	6.0
120°-130°	47.9	5.0
130°-140°	37.1	3.9
140°-150°	26.0	2.7
150°-160°	16.0	1.7
160°-170°	7.3	0.8
170°-180°	1.2	0.1
0°-30°	212.9	22.2
0°-40°	279.1	29.1
0°-60°	423.0	44.1
0°-90°	637.3	66.5
90°-120°	186.2	19.4
90°-150°	297.2	31.0
90°-180°	322.0	33.6
0°-180°	959.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	917	
5°	1025	81
15°	236	66
25°	140	66
35°	105	66
45°	91	70
55°	82	74
65°	75	75
75°	69	73
85°	61	50
90°	60	33
95°	61	49
105°	60	63
115°	58	57
125°	54	48
135°	48	37
145°	41	26
155°	34	16
165°	26	7
175°	10	1
180°	2	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	916.7
2.5°	995.4
5°	1025.4
7.5°	973.5
10°	319.4
12.5°	261.0
15°	235.9
17.5°	212.4
20°	184.0
22.5°	158.1
25°	140.2
27.5°	128.1
30°	117.5
32.5°	111.0
35°	104.6
37.5°	100.5
40°	96.5
42.5°	93.2
45°	90.8
47.5°	88.4
50°	85.9
52.5°	84.3
55°	81.9
57.5°	80.2
60°	78.6
62.5°	77.0
65°	75.4
67.5°	73.8
70°	72.1
72.5°	71.3
75°	68.9
77.5°	67.3
80°	64.0
82.5°	61.6
85°	60.8
87.5°	60.0
90°	60.0
92.5°	60.0
95°	60.8
97.5°	60.8
100°	60.0
102.5°	60.0
105°	60.0
107.5°	59.2
110°	59.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	58.4
115°	57.5
117.5°	56.7
120°	55.9
122.5°	54.3
125°	53.5
127.5°	51.9
130°	51.1
132.5°	49.4
135°	47.8
137.5°	46.2
140°	44.6
142.5°	43.0
145°	41.3
147.5°	39.7
150°	38.1
152.5°	36.5
155°	34.0
157.5°	32.4
160°	30.0
162.5°	28.4
165°	25.9
167.5°	22.7
170°	18.6
172.5°	14.6
175°	9.7
177.5°	4.9
180°	2.4



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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	9.6	10.7	10.4	11.5	12.5	9.6	10.7	10.4	11.5	12.5
	3H	12.1	13.0	12.9	13.9	14.9	12.1	13.0	12.9	13.9	14.9
	4H	13.2	14.2	14.0	15.0	16.1	13.2	14.2	14.0	15.0	16.1
	6H	14.3	15.2	15.2	16.1	17.1	14.3	15.2	15.2	16.1	17.1
	8H	14.8	15.7	15.7	16.5	17.6	14.8	15.7	15.7	16.5	17.6
	12H	15.3	16.1	16.2	17.0	18.1	15.3	16.1	16.2	17.0	18.1
4H	2H	10.2	11.2	11.1	12.0	13.1	10.2	11.2	11.1	12.0	13.1
	3H	12.9	13.7	13.7	14.6	15.6	12.9	13.7	13.7	14.6	15.6
	4H	14.2	15.0	15.1	15.8	16.9	14.2	15.0	15.1	15.8	16.9
	6H	15.5	16.2	16.4	17.1	18.1	15.5	16.2	16.4	17.1	18.1
	8H	16.1	16.7	17.0	17.6	18.7	16.1	16.7	17.0	17.6	18.7
	12H	16.7	17.3	17.6	18.2	19.3	16.7	17.3	17.6	18.2	19.3
8H	4H	14.6	15.3	15.5	16.2	17.3	14.6	15.3	15.5	16.2	17.3
	6H	16.1	16.6	17.0	17.6	18.7	16.1	16.6	17.0	17.6	18.7
	8H	16.8	17.3	17.7	18.2	19.4	16.8	17.3	17.7	18.2	19.4
	12H	17.6	18.0	18.5	19.0	20.1	17.6	18.0	18.5	19.0	20.1
12H	4H	14.7	15.3	15.6	16.2	17.3	14.7	15.3	15.6	16.2	17.3
	6H	16.3	16.7	17.2	17.6	18.8	16.3	16.7	17.2	17.6	18.8
	8H	17.1	17.5	18.0	18.4	19.6	17.1	17.5	18.0	18.4	19.6

(END OF REPORT)