

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: P1245501

Luminaire Tested: PRLX-UNA-S-940-12L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245501
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-940-12L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

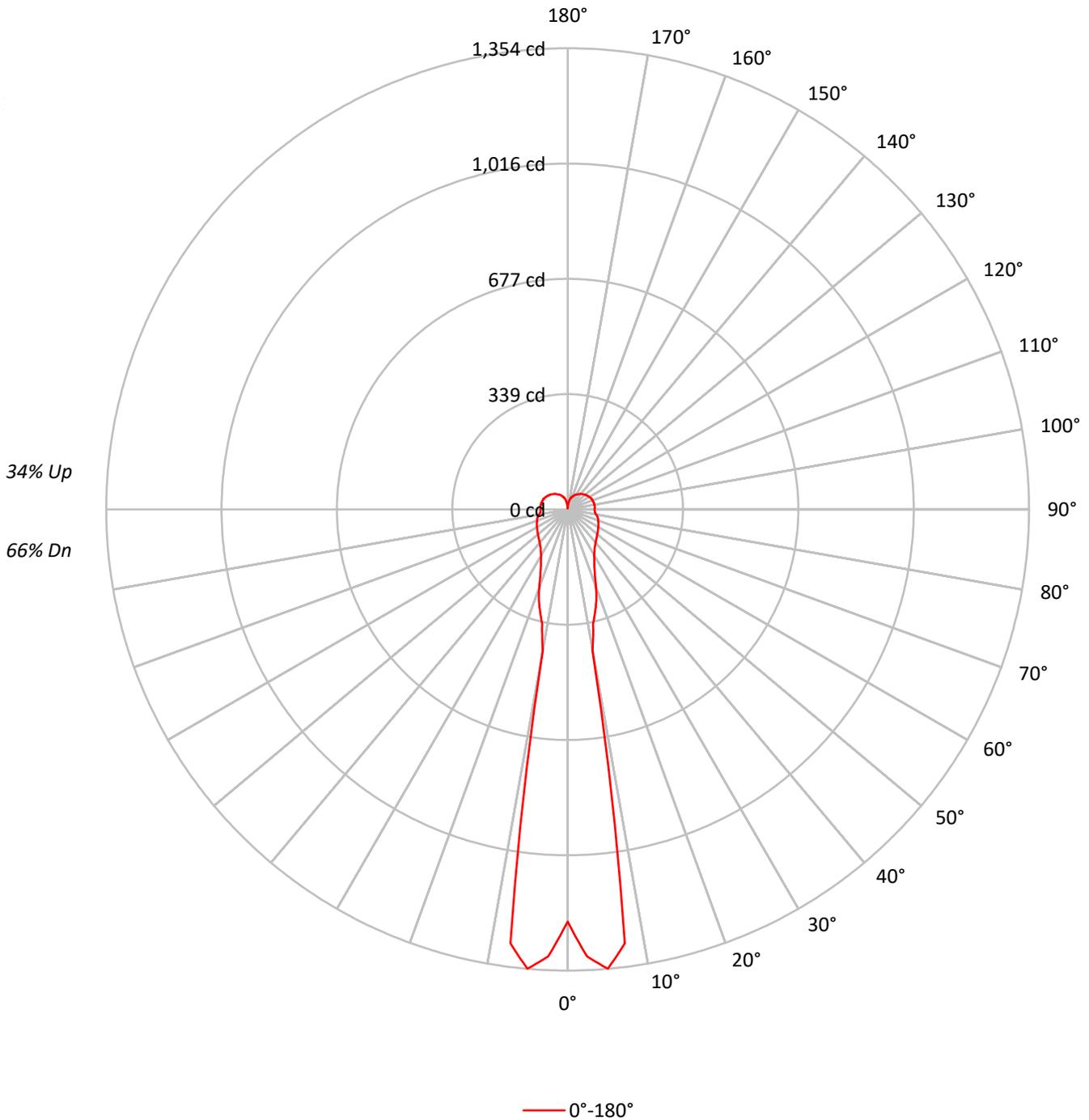
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1266.1 lumens
Efficiency: N/A
Efficacy: 43.8 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	30	26	34	28	24		31	26	23		28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59285
5°	55012
10°	14736
15°	9612
20°	6759
25°	4721
30°	3680
35°	3079
40°	2701
45°	2441
50°	2239
55°	2085
60°	1972
65°	1876
70°	1796
75°	1730
80°	1632
85°	1587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2441 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	8.4
10°-20°	87.6	6.9
20°-30°	87.0	6.9
30°-40°	87.4	6.9
40°-50°	92.8	7.3
50°-60°	97.2	7.7
60°-70°	98.7	7.8
70°-80°	96.2	7.6
80°-90°	88.0	7.0
90°-100°	87.0	6.9
100°-110°	83.4	6.6
110°-120°	75.4	6.0
120°-130°	63.2	5.0
130°-140°	49.0	3.9
140°-150°	34.4	2.7
150°-160°	21.1	1.7
160°-170°	9.7	0.8
170°-180°	1.6	0.1
0°-30°	281.1	22.2
0°-40°	368.4	29.1
0°-60°	558.4	44.1
0°-90°	841.4	66.5
90°-120°	245.8	19.4
90°-150°	392.3	31.0
90°-180°	425.0	33.6
0°-180°	1266.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1210	
5°	1354	106
15°	311	88
25°	185	87
35°	138	87
45°	120	93
55°	108	97
65°	100	99
75°	91	96
85°	80	66
90°	79	43
95°	80	65
105°	79	83
115°	76	75
125°	71	63
135°	63	49
145°	55	34
155°	45	21
165°	34	10
175°	13	2
180°	3	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1210.2
2.5°	1314.0
5°	1353.6
7.5°	1285.1
10°	421.6
12.5°	344.6
15°	311.4
17.5°	280.3
20°	242.9
22.5°	208.7
25°	185.1
27.5°	169.1
30°	155.2
32.5°	146.6
35°	138.0
37.5°	132.7
40°	127.3
42.5°	123.1
45°	119.8
47.5°	116.6
50°	113.4
52.5°	111.3
55°	108.1
57.5°	105.9
60°	103.8
62.5°	101.7
65°	99.5
67.5°	97.4
70°	95.2
72.5°	94.2
75°	91.0
77.5°	88.8
80°	84.5
82.5°	81.3
85°	80.3
87.5°	79.2
90°	79.2
92.5°	79.2
95°	80.3
97.5°	80.3
100°	79.2
102.5°	79.2
105°	79.2
107.5°	78.1
110°	78.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	77.0
115°	76.0
117.5°	74.9
120°	73.8
122.5°	71.7
125°	70.6
127.5°	68.5
130°	67.4
132.5°	65.3
135°	63.1
137.5°	61.0
140°	58.9
142.5°	56.7
145°	54.6
147.5°	52.4
150°	50.3
152.5°	48.2
155°	44.9
157.5°	42.8
160°	39.6
162.5°	37.5
165°	34.2
167.5°	30.0
170°	24.6
172.5°	19.3
175°	12.8
177.5°	6.4
180°	3.2



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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	10.6	11.7	11.4	12.5	13.5	10.6	11.7	11.4	12.5	13.5
	3H	13.0	14.0	13.8	14.8	15.9	13.0	14.0	13.8	14.8	15.9
	4H	14.2	15.1	15.0	16.0	17.0	14.2	15.1	15.0	16.0	17.0
	6H	15.3	16.2	16.1	17.0	18.1	15.3	16.2	16.1	17.0	18.1
	8H	15.8	16.6	16.6	17.5	18.6	15.8	16.6	16.6	17.5	18.6
	12H	16.3	17.1	17.2	18.0	19.1	16.3	17.1	17.2	18.0	19.1
4H	2H	11.2	12.1	12.0	13.0	14.0	11.2	12.1	12.0	13.0	14.0
	3H	13.9	14.7	14.7	15.5	16.6	13.9	14.7	14.7	15.5	16.6
	4H	15.2	15.9	16.0	16.8	17.9	15.2	15.9	16.0	16.8	17.9
	6H	16.5	17.1	17.3	18.0	19.1	16.5	17.1	17.3	18.0	19.1
	8H	17.1	17.7	17.9	18.6	19.7	17.1	17.7	17.9	18.6	19.7
	12H	17.7	18.2	18.5	19.1	20.3	17.7	18.2	18.5	19.1	20.3
8H	4H	15.6	16.2	16.5	17.1	18.2	15.6	16.2	16.5	17.1	18.2
	6H	17.1	17.6	18.0	18.5	19.6	17.1	17.6	18.0	18.5	19.6
	8H	17.8	18.3	18.7	19.2	20.3	17.8	18.3	18.7	19.2	20.3
	12H	18.6	19.0	19.5	19.9	21.1	18.6	19.0	19.5	19.9	21.1
12H	4H	15.7	16.3	16.6	17.2	18.3	15.7	16.3	16.6	17.2	18.3
	6H	17.2	17.7	18.1	18.6	19.8	17.2	17.7	18.1	18.6	19.8
	8H	18.0	18.5	18.9	19.4	20.5	18.0	18.5	18.9	19.4	20.5

(END OF REPORT)