

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: P1245497

Luminaire Tested: PRLX-UNA-S-940-09L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245497
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-940-09L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL LINES SHADE TEXTURE, LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

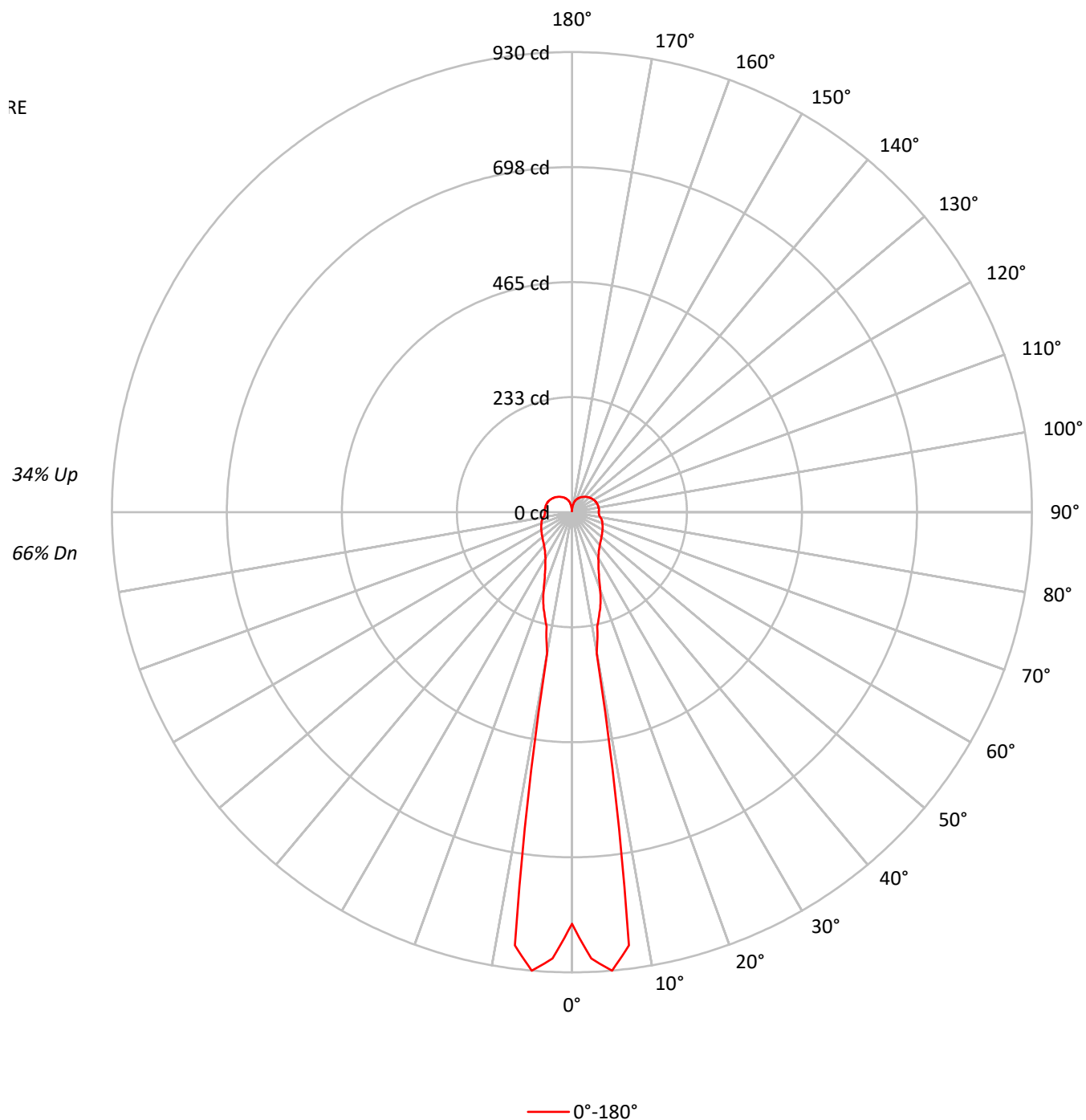
Lumens per Lamp: N/A
Luminaire Lumens: 870.0 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10	
RCR																						
0	111	111	111	111		105	105	105	105		92	92	92		81	81	81		71	71	71	
1	99	94	89	84		93	88	84	80		78	74	71		68	65	63		59	57	55	
2	90	81	74	68		84	77	70	65		68	63	58		59	55	52		52	49	46	
3	82	72	64	57		77	68	60	55		60	54	49		53	48	44		46	43	40	
4	76	64	56	49		71	61	53	47		54	48	43		48	43	39		42	38	35	
5	70	58	49	43		66	55	47	41		49	43	38		44	38	34		38	34	31	
6	65	53	44	38		61	50	42	37		45	39	34		40	35	31		36	32	28	
7	61	48	40	35		57	46	39	33		42	35	31		37	32	28		33	29	26	
8	57	45	37	31		54	43	35	30		39	33	28		35	30	26		31	27	24	
9	54	42	34	29		51	40	33	28		36	30	26		33	28	24		30	26	23	
10	51	39	32	27		48	37	30	26		34	28	24		31	26	23		28	24	21	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40743
5°	37805
10°	10126
15°	6605
20°	4644
25°	3244
30°	2528
35°	2117
40°	1857
45°	1679
50°	1538
55°	1433
60°	1355
65°	1290
70°	1234
75°	1188
80°	1122
85°	1091

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	8.4
10°-20°	60.2	6.9
20°-30°	59.8	6.9
30°-40°	60.0	6.9
40°-50°	63.8	7.3
50°-60°	66.8	7.7
60°-70°	67.8	7.8
70°-80°	66.1	7.6
80°-90°	60.5	7.0
90°-100°	59.8	6.9
100°-110°	57.3	6.6
110°-120°	51.8	6.0
120°-130°	43.4	5.0
130°-140°	33.7	3.9
140°-150°	23.6	2.7
150°-160°	14.5	1.7
160°-170°	6.7	0.8
170°-180°	1.1	0.1
0°-30°	193.1	22.2
0°-40°	253.2	29.1
0°-60°	383.8	44.1
0°-90°	578.2	66.5
90°-120°	168.9	19.4
90°-150°	269.6	31.0
90°-180°	292.0	33.6
0°-180°	870.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	832	
5°	930	73
15°	214	60
25°	127	60
35°	95	60
45°	82	64
55°	74	67
65°	68	68
75°	62	66
85°	55	46
90°	54	30
95°	55	45
105°	54	57
115°	52	52
125°	48	43
135°	43	34
145°	38	24
155°	31	14
165°	24	7
175°	9	1
180°	2	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	831.7
2.5°	903.0
5°	930.2
7.5°	883.1
10°	289.7
12.5°	236.8
15°	214.0
17.5°	192.7
20°	166.9
22.5°	143.4
25°	127.2
27.5°	116.2
30°	106.6
32.5°	100.7
35°	94.9
37.5°	91.2
40°	87.5
42.5°	84.6
45°	82.4
47.5°	80.2
50°	77.9
52.5°	76.5
55°	74.3
57.5°	72.8
60°	71.3
62.5°	69.9
65°	68.4
67.5°	66.9
70°	65.4
72.5°	64.7
75°	62.5
77.5°	61.0
80°	58.1
82.5°	55.9
85°	55.2
87.5°	54.4
90°	54.4
92.5°	54.4
95°	55.2
97.5°	55.2
100°	54.4
102.5°	54.4
105°	54.4
107.5°	53.7
110°	53.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	52.9
115°	52.2
117.5°	51.5
120°	50.7
122.5°	49.3
125°	48.5
127.5°	47.1
130°	46.3
132.5°	44.9
135°	43.4
137.5°	41.9
140°	40.4
142.5°	39.0
145°	37.5
147.5°	36.0
150°	34.6
152.5°	33.1
155°	30.9
157.5°	29.4
160°	27.2
162.5°	25.7
165°	23.5
167.5°	20.6
170°	16.9
172.5°	13.2
175°	8.8
177.5°	4.4
180°	2.2

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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	9.3	10.4	10.1	11.2	12.2	9.3	10.4	10.1	11.2	12.2
	3H	11.7	12.7	12.5	13.5	14.6	11.7	12.7	12.5	13.5	14.6
	4H	12.9	13.8	13.7	14.7	15.7	12.9	13.8	13.7	14.7	15.7
	6H	14.0	14.9	14.8	15.7	16.8	14.0	14.9	14.8	15.7	16.8
	8H	14.5	15.3	15.3	16.2	17.3	14.5	15.3	15.3	16.2	17.3
	12H	15.0	15.8	15.9	16.7	17.8	15.0	15.8	15.9	16.7	17.8
4H	2H	9.9	10.8	10.7	11.7	12.7	9.9	10.8	10.7	11.7	12.7
	3H	12.6	13.4	13.4	14.2	15.3	12.6	13.4	13.4	14.2	15.3
	4H	13.9	14.6	14.7	15.5	16.6	13.9	14.6	14.7	15.5	16.6
	6H	15.2	15.8	16.0	16.7	17.8	15.2	15.8	16.0	16.7	17.8
	8H	15.8	16.4	16.6	17.3	18.4	15.8	16.4	16.6	17.3	18.4
	12H	16.4	16.9	17.2	17.8	18.9	16.4	16.9	17.2	17.8	18.9
8H	4H	14.3	14.9	15.2	15.8	16.9	14.3	14.9	15.2	15.8	16.9
	6H	15.8	16.3	16.7	17.2	18.3	15.8	16.3	16.7	17.2	18.3
	8H	16.5	17.0	17.4	17.9	19.0	16.5	17.0	17.4	17.9	19.0
	12H	17.3	17.7	18.2	18.6	19.8	17.3	17.7	18.2	18.6	19.8
12H	4H	14.4	15.0	15.3	15.9	17.0	14.4	15.0	15.3	15.9	17.0
	6H	15.9	16.4	16.8	17.3	18.5	15.9	16.4	16.8	17.3	18.5
	8H	16.7	17.2	17.6	18.1	19.2	16.7	17.2	17.6	18.1	19.2

(END OF REPORT)