

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: P1245492

Luminaire Tested: PRLX-UNA-S-940-05L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245492
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-940-05L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

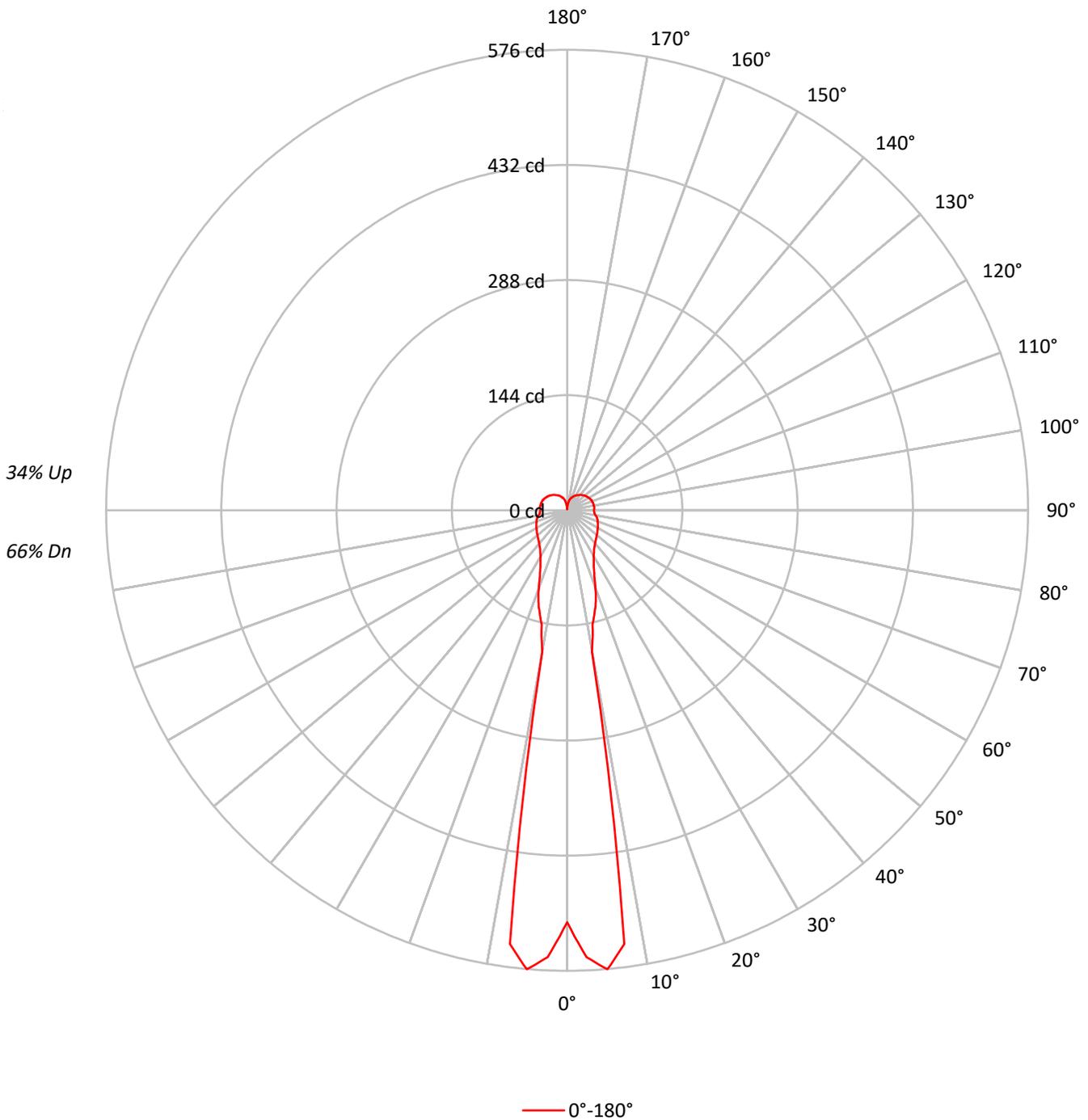
Lumens per Lamp: N/A
Luminaire Lumens: 539.0 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 11.1
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	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°	25239
5°	23422
10°	6274
15°	4093
20°	2877
25°	2010
30°	1567
35°	1312
40°	1150
45°	1039
50°	954
55°	887
60°	840
65°	800
70°	764
75°	736
80°	695
85°	676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1039 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	8.4
10°-20°	37.3	6.9
20°-30°	37.0	6.9
30°-40°	37.2	6.9
40°-50°	39.5	7.3
50°-60°	41.4	7.7
60°-70°	42.1	7.8
70°-80°	40.9	7.6
80°-90°	37.5	6.9
90°-100°	37.0	6.9
100°-110°	35.5	6.6
110°-120°	32.1	6.0
120°-130°	26.9	5.0
130°-140°	20.9	3.9
140°-150°	14.6	2.7
150°-160°	9.0	1.7
160°-170°	4.1	0.8
170°-180°	0.7	0.1
0°-30°	119.7	22.2
0°-40°	156.9	29.1
0°-60°	237.8	44.1
0°-90°	358.2	66.5
90°-120°	104.6	19.4
90°-150°	167.0	31.0
90°-180°	181.0	33.6
0°-180°	539.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	515	
5°	576	45
15°	133	37
25°	79	37
35°	59	37
45°	51	40
55°	46	41
65°	42	42
75°	39	41
85°	34	28
90°	34	18
95°	34	28
105°	34	35
115°	32	32
125°	30	27
135°	27	21
145°	23	15
155°	19	9
165°	15	4
175°	6	1
180°	1	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	515.2
2.5°	559.4
5°	576.3
7.5°	547.1
10°	179.5
12.5°	146.7
15°	132.6
17.5°	119.4
20°	103.4
22.5°	88.8
25°	78.8
27.5°	72.0
30°	66.1
32.5°	62.4
35°	58.8
37.5°	56.5
40°	54.2
42.5°	52.4
45°	51.0
47.5°	49.7
50°	48.3
52.5°	47.4
55°	46.0
57.5°	45.1
60°	44.2
62.5°	43.3
65°	42.4
67.5°	41.5
70°	40.5
72.5°	40.1
75°	38.7
77.5°	37.8
80°	36.0
82.5°	34.6
85°	34.2
87.5°	33.7
90°	33.7
92.5°	33.7
95°	34.2
97.5°	34.2
100°	33.7
102.5°	33.7
105°	33.7
107.5°	33.3
110°	33.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	32.8
115°	32.3
117.5°	31.9
120°	31.4
122.5°	30.5
125°	30.1
127.5°	29.2
130°	28.7
132.5°	27.8
135°	26.9
137.5°	26.0
140°	25.1
142.5°	24.1
145°	23.2
147.5°	22.3
150°	21.4
152.5°	20.5
155°	19.1
157.5°	18.2
160°	16.9
162.5°	15.9
165°	14.6
167.5°	12.8
170°	10.5
172.5°	8.2
175°	5.5
177.5°	2.7
180°	1.4



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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	7.6	8.7	8.4	9.5	10.5	7.6	8.7	8.4	9.5	10.5
	3H	10.1	11.0	10.9	11.9	12.9	10.1	11.0	10.9	11.9	12.9
	4H	11.2	12.2	12.0	13.0	14.1	11.2	12.2	12.0	13.0	14.1
	6H	12.3	13.2	13.2	14.1	15.1	12.3	13.2	13.2	14.1	15.1
	8H	12.8	13.7	13.7	14.5	15.6	12.8	13.7	13.7	14.5	15.6
	12H	13.3	14.1	14.2	15.0	16.1	13.3	14.1	14.2	15.0	16.1
4H	2H	8.2	9.2	9.1	10.0	11.1	8.2	9.2	9.1	10.0	11.1
	3H	10.9	11.7	11.7	12.6	13.6	10.9	11.7	11.7	12.6	13.6
	4H	12.2	13.0	13.1	13.8	14.9	12.2	13.0	13.1	13.8	14.9
	6H	13.5	14.2	14.4	15.1	16.1	13.5	14.2	14.4	15.1	16.1
	8H	14.1	14.7	15.0	15.6	16.7	14.1	14.7	15.0	15.6	16.7
	12H	14.7	15.3	15.6	16.2	17.3	14.7	15.3	15.6	16.2	17.3
8H	4H	12.6	13.3	13.5	14.2	15.3	12.6	13.3	13.5	14.2	15.3
	6H	14.1	14.6	15.0	15.6	16.7	14.1	14.6	15.0	15.6	16.7
	8H	14.8	15.3	15.7	16.2	17.4	14.8	15.3	15.7	16.2	17.4
	12H	15.6	16.0	16.5	17.0	18.1	15.6	16.0	16.5	17.0	18.1
12H	4H	12.7	13.3	13.6	14.2	15.3	12.7	13.3	13.6	14.2	15.3
	6H	14.3	14.7	15.2	15.6	16.8	14.3	14.7	15.2	15.6	16.8
	8H	15.1	15.5	16.0	16.4	17.6	15.1	15.5	16.0	16.4	17.6

(END OF REPORT)