

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: P1245448

Luminaire Tested: PRLX-UNA-S-927-05L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245448
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: Prenalux
Catalog Number: PRLX-UNA-S-927-05L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

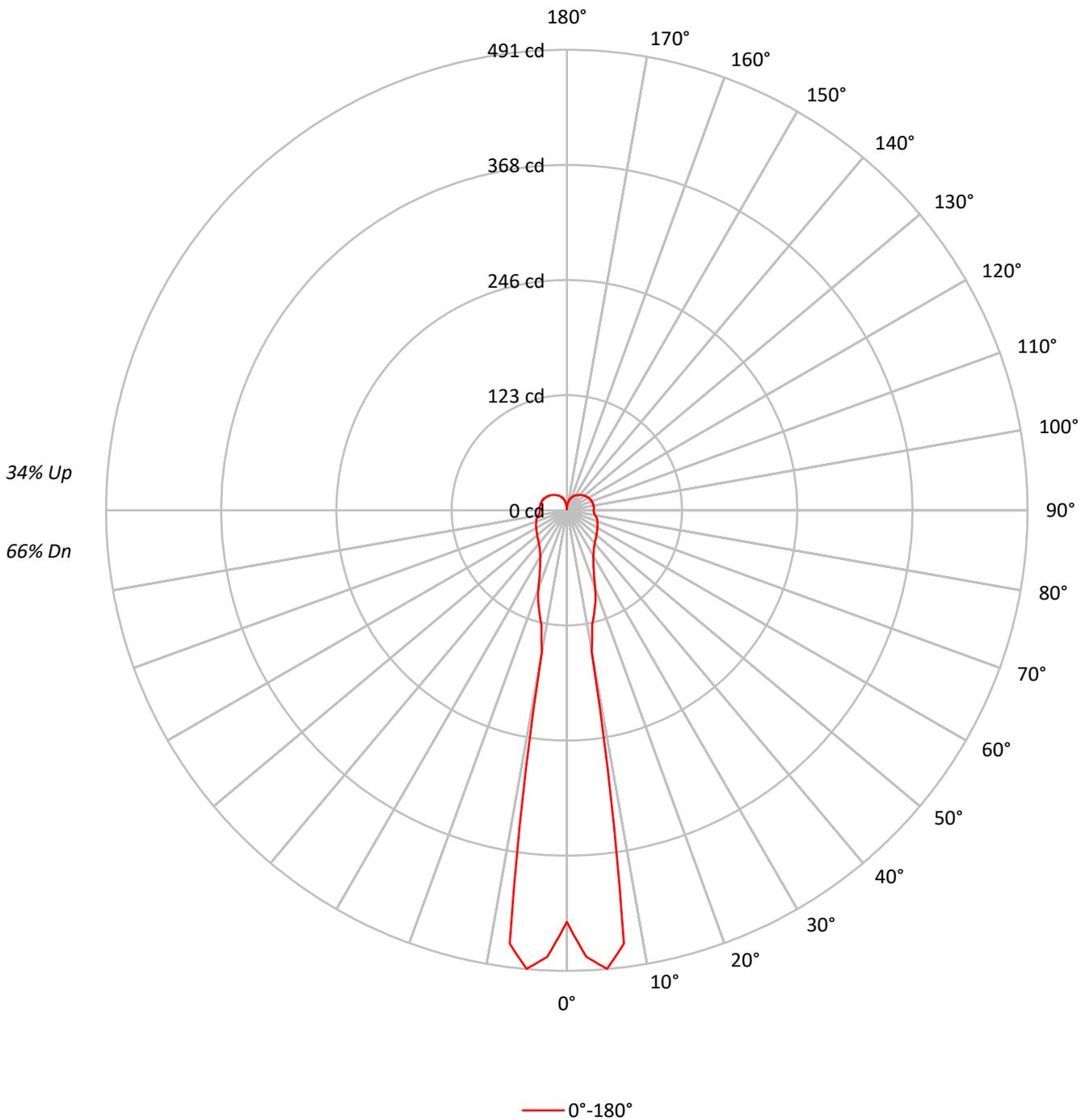
Lumens per Lamp: N/A
Luminaire Lumens: 459.0 lumens
Efficiency: N/A
Efficacy: 41.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (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°	21496
5°	19947
10°	5344
15°	3485
20°	2451
25°	1711
30°	1335
35°	1116
40°	980
45°	886
50°	811
55°	756
60°	714
65°	681
70°	651
75°	627
80°	591
85°	575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 886 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	8.4
10°-20°	31.8	6.9
20°-30°	31.6	6.9
30°-40°	31.7	6.9
40°-50°	33.6	7.3
50°-60°	35.2	7.7
60°-70°	35.8	7.8
70°-80°	34.9	7.6
80°-90°	31.9	6.9
90°-100°	31.5	6.9
100°-110°	30.2	6.6
110°-120°	27.3	6.0
120°-130°	22.9	5.0
130°-140°	17.8	3.9
140°-150°	12.5	2.7
150°-160°	7.6	1.7
160°-170°	3.5	0.8
170°-180°	0.6	0.1
0°-30°	101.9	22.2
0°-40°	133.6	29.1
0°-60°	202.5	44.1
0°-90°	305.0	66.5
90°-120°	89.1	19.4
90°-150°	142.2	31.0
90°-180°	154.0	33.6
0°-180°	459.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	439	
5°	491	39
15°	113	32
25°	67	32
35°	50	32
45°	44	34
55°	39	35
65°	36	36
75°	33	35
85°	29	24
90°	29	16
95°	29	24
105°	29	30
115°	28	27
125°	26	23
135°	23	18
145°	20	12
155°	16	8
165°	12	4
175°	5	1
180°	1	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	438.8
2.5°	476.4
5°	490.8
7.5°	465.9
10°	152.9
12.5°	124.9
15°	112.9
17.5°	101.6
20°	88.1
22.5°	75.7
25°	67.1
27.5°	61.3
30°	56.3
32.5°	53.1
35°	50.0
37.5°	48.1
40°	46.2
42.5°	44.6
45°	43.5
47.5°	42.3
50°	41.1
52.5°	40.3
55°	39.2
57.5°	38.4
60°	37.6
62.5°	36.9
65°	36.1
67.5°	35.3
70°	34.5
72.5°	34.1
75°	33.0
77.5°	32.2
80°	30.6
82.5°	29.5
85°	29.1
87.5°	28.7
90°	28.7
92.5°	28.7
95°	29.1
97.5°	29.1
100°	28.7
102.5°	28.7
105°	28.7
107.5°	28.3
110°	28.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	27.9
115°	27.5
117.5°	27.2
120°	26.8
122.5°	26.0
125°	25.6
127.5°	24.8
130°	24.4
132.5°	23.7
135°	22.9
137.5°	22.1
140°	21.3
142.5°	20.6
145°	19.8
147.5°	19.0
150°	18.2
152.5°	17.5
155°	16.3
157.5°	15.5
160°	14.4
162.5°	13.6
165°	12.4
167.5°	10.9
170°	8.9
172.5°	7.0
175°	4.7
177.5°	2.3
180°	1.2



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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	7.1	8.1	7.8	9.0	10.0	7.1	8.1	7.8	9.0	10.0
	3H	9.5	10.5	10.3	11.3	12.4	9.5	10.5	10.3	11.3	12.4
	4H	10.7	11.6	11.5	12.4	13.5	10.7	11.6	11.5	12.4	13.5
	6H	11.8	12.7	12.6	13.5	14.6	11.8	12.7	12.6	13.5	14.6
	8H	12.3	13.1	13.1	14.0	15.1	12.3	13.1	13.1	14.0	15.1
	12H	12.8	13.6	13.6	14.4	15.5	12.8	13.6	13.6	14.4	15.5
4H	2H	7.7	8.6	8.5	9.5	10.5	7.7	8.6	8.5	9.5	10.5
	3H	10.3	11.2	11.2	12.0	13.1	10.3	11.2	11.2	12.0	13.1
	4H	11.7	12.4	12.5	13.3	14.4	11.7	12.4	12.5	13.3	14.4
	6H	12.9	13.6	13.8	14.5	15.6	12.9	13.6	13.8	14.5	15.6
	8H	13.5	14.2	14.4	15.0	16.2	13.5	14.2	14.4	15.0	16.2
	12H	14.1	14.7	15.0	15.6	16.7	14.1	14.7	15.0	15.6	16.7
8H	4H	12.1	12.7	13.0	13.6	14.7	12.1	12.7	13.0	13.6	14.7
	6H	13.6	14.1	14.4	15.0	16.1	13.6	14.1	14.4	15.0	16.1
	8H	14.3	14.8	15.2	15.7	16.8	14.3	14.8	15.2	15.7	16.8
	12H	15.0	15.5	16.0	16.4	17.6	15.0	15.5	16.0	16.4	17.6
12H	4H	12.2	12.7	13.0	13.6	14.8	12.2	12.7	13.0	13.6	14.8
	6H	13.7	14.2	14.6	15.1	16.2	13.7	14.2	14.6	15.1	16.2
	8H	14.5	14.9	15.4	15.8	17.0	14.5	14.9	15.4	15.8	17.0

(END OF REPORT)