

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: P1245457

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245457
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-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

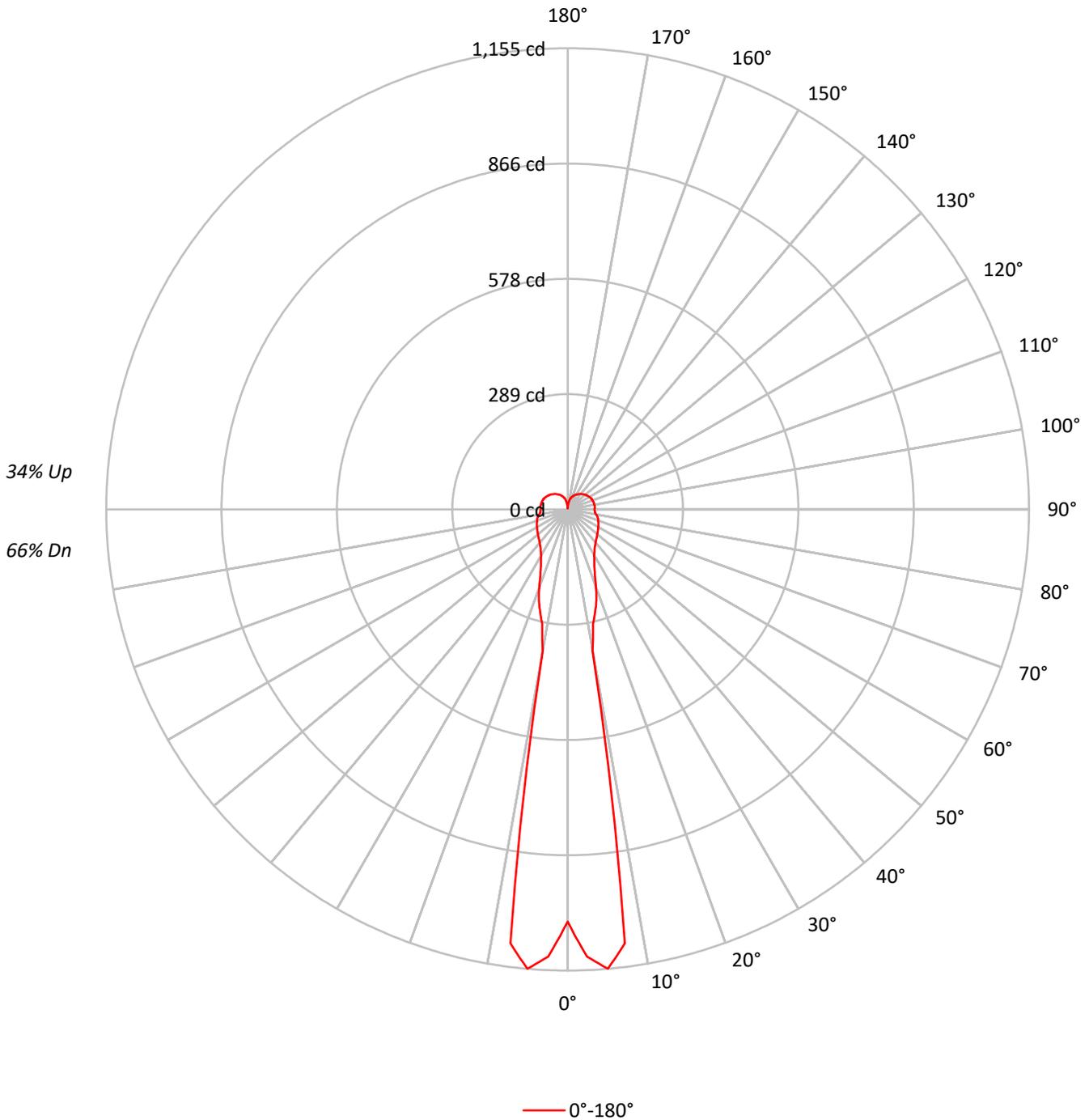
Lumens per Lamp: N/A
Luminaire Lumens: 1079.9 lumens
Efficiency: N/A
Efficacy: 37.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

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

TEST NUMBER: P1245457

CATALOG NUMBER: PRLX-UNA-S-927-12L-U-PS

Luminous Intensity Polar Plot





TEST NUMBER: P1245457

CATALOG NUMBER: PRLX-UNA-S-927-12L-U-PS

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°	50575
5°	46929
10°	12572
15°	8198
20°	5765
25°	4027
30°	3139
35°	2628
40°	2304
45°	2082
50°	1911
55°	1779
60°	1681
65°	1601
70°	1532
75°	1475
80°	1392
85°	1354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2082 cd/sqm

TEST NUMBER: P1245457

CATALOG NUMBER: PRLX-UNA-S-927-12L-U-PS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	8.4
10°-20°	74.7	6.9
20°-30°	74.2	6.9
30°-40°	74.6	6.9
40°-50°	79.1	7.3
50°-60°	82.9	7.7
60°-70°	84.2	7.8
70°-80°	82.0	7.6
80°-90°	75.1	7.0
90°-100°	74.2	6.9
100°-110°	71.1	6.6
110°-120°	64.3	6.0
120°-130°	53.9	5.0
130°-140°	41.8	3.9
140°-150°	29.3	2.7
150°-160°	18.0	1.7
160°-170°	8.3	0.8
170°-180°	1.4	0.1
0°-30°	239.8	22.2
0°-40°	314.3	29.1
0°-60°	476.4	44.1
0°-90°	717.7	66.5
90°-120°	209.6	19.4
90°-150°	334.6	31.0
90°-180°	362.0	33.5
0°-180°	1079.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1032	
5°	1155	91
15°	266	75
25°	158	74
35°	118	75
45°	102	79
55°	92	83
65°	85	84
75°	78	82
85°	68	57
90°	68	37
95°	68	56
105°	68	71
115°	65	64
125°	60	54
135°	54	42
145°	47	29
155°	38	18
165°	29	8
175°	11	1
180°	3	

TEST NUMBER: P1245457

CATALOG NUMBER: PRLX-UNA-S-927-12L-U-PS

CANDELA DISTRIBUTION (FULL):

0°	
0°	1032.4
2.5°	1121.0
5°	1154.7
7.5°	1096.3
10°	359.7
12.5°	293.9
15°	265.6
17.5°	239.2
20°	207.2
22.5°	178.0
25°	157.9
27.5°	144.2
30°	132.4
32.5°	125.1
35°	117.8
37.5°	113.2
40°	108.6
42.5°	105.0
45°	102.2
47.5°	99.5
50°	96.8
52.5°	94.9
55°	92.2
57.5°	90.4
60°	88.5
62.5°	86.7
65°	84.9
67.5°	83.1
70°	81.2
72.5°	80.3
75°	77.6
77.5°	75.8
80°	72.1
82.5°	69.4
85°	68.5
87.5°	67.5
90°	67.5
92.5°	67.5
95°	68.5
97.5°	68.5
100°	67.5
102.5°	67.5
105°	67.5
107.5°	66.6
110°	66.6

TEST NUMBER: P1245457

CATALOG NUMBER: PRLX-UNA-S-927-12L-U-PS

CANDELA DISTRIBUTION (continued):

	0°
112.5°	65.7
115°	64.8
117.5°	63.9
120°	63.0
122.5°	61.2
125°	60.2
127.5°	58.4
130°	57.5
132.5°	55.7
135°	53.9
137.5°	52.0
140°	50.2
142.5°	48.4
145°	46.6
147.5°	44.7
150°	42.9
152.5°	41.1
155°	38.3
157.5°	36.5
160°	33.8
162.5°	31.9
165°	29.2
167.5°	25.6
170°	21.0
172.5°	16.4
175°	11.0
177.5°	5.5
180°	2.7



TEST NUMBER: P1245457

CATALOG NUMBER: PRLX-UNA-S-927-12L-U-PS

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	10.0	11.1	10.8	11.9	12.9	10.0	11.1	10.8	11.9	12.9
	3H	12.5	13.5	13.3	14.3	15.3	12.5	13.5	13.3	14.3	15.3
	4H	13.6	14.6	14.5	15.4	16.5	13.6	14.6	14.5	15.4	16.5
	6H	14.8	15.6	15.6	16.5	17.5	14.8	15.6	15.6	16.5	17.5
	8H	15.3	16.1	16.1	17.0	18.0	15.3	16.1	16.1	17.0	18.0
	12H	15.8	16.6	16.6	17.4	18.5	15.8	16.6	16.6	17.4	18.5
4H	2H	10.7	11.6	11.5	12.4	13.5	10.7	11.6	11.5	12.4	13.5
	3H	13.3	14.1	14.2	15.0	16.1	13.3	14.1	14.2	15.0	16.1
	4H	14.6	15.4	15.5	16.3	17.3	14.6	15.4	15.5	16.3	17.3
	6H	15.9	16.6	16.8	17.5	18.6	15.9	16.6	16.8	17.5	18.6
	8H	16.5	17.1	17.4	18.0	19.1	16.5	17.1	17.4	18.0	19.1
	12H	17.1	17.7	18.0	18.6	19.7	17.1	17.7	18.0	18.6	19.7
8H	4H	15.1	15.7	15.9	16.6	17.7	15.1	15.7	15.9	16.6	17.7
	6H	16.5	17.1	17.4	18.0	19.1	16.5	17.1	17.4	18.0	19.1
	8H	17.3	17.7	18.2	18.7	19.8	17.3	17.7	18.2	18.7	19.8
	12H	18.0	18.5	18.9	19.4	20.5	18.0	18.5	18.9	19.4	20.5
12H	4H	15.1	15.7	16.0	16.6	17.7	15.1	15.7	16.0	16.6	17.7
	6H	16.7	17.2	17.6	18.1	19.2	16.7	17.2	17.6	18.1	19.2
	8H	17.5	17.9	18.4	18.8	20.0	17.5	17.9	18.4	18.8	20.0

(END OF REPORT)