

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: P1245301

Luminaire Tested: PRLX-UNA-L-927-16L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-L-927-16L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

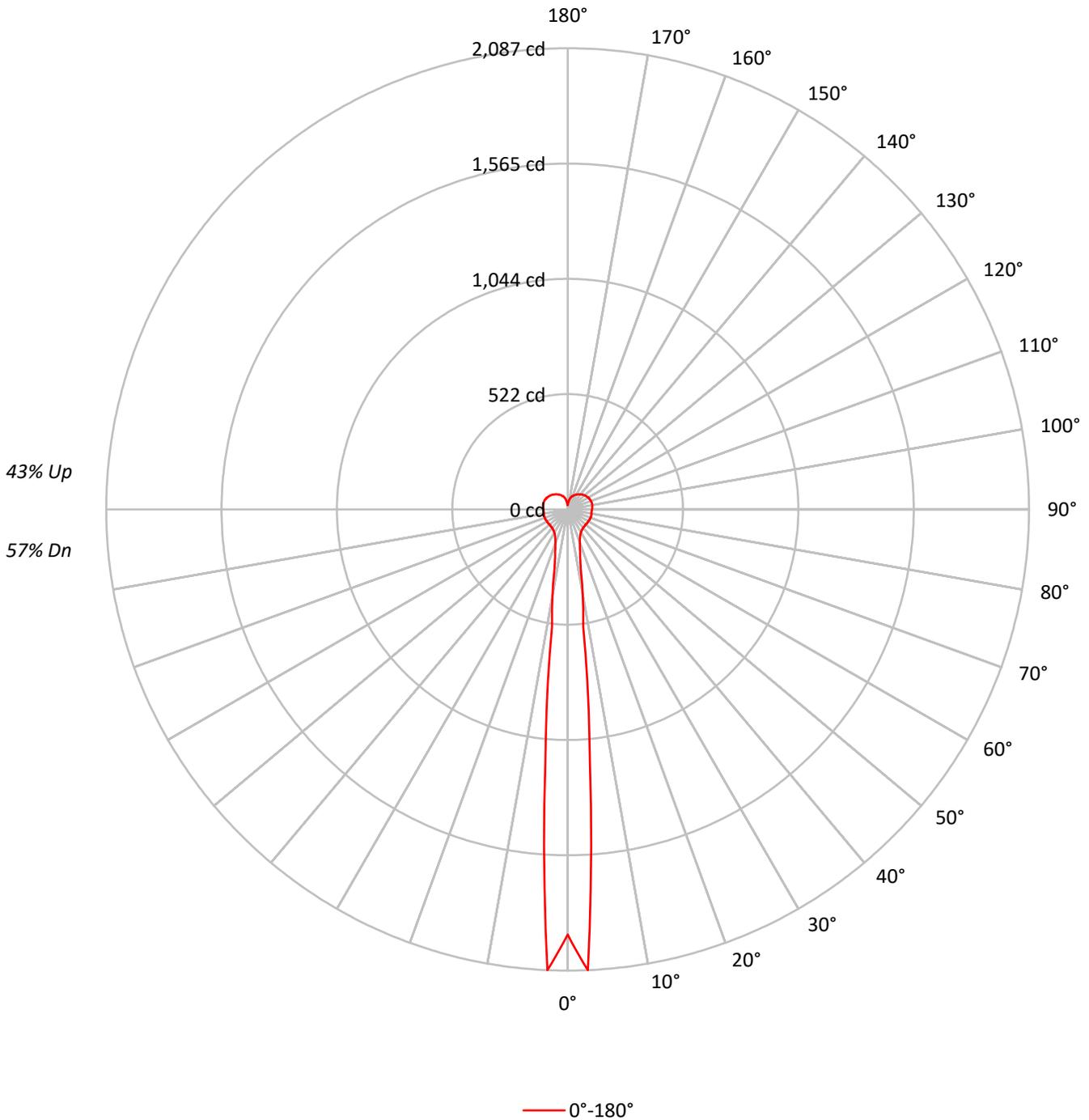
Lumens per Lamp: N/A
Luminaire Lumens: 1429.9 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 38.8
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	109	109	109	109	101	101	101	101	87	87	87		74	74	74		62	62	62	57
1	96	90	85	80	88	83	79	75	71	68	64		60	57	55		49	47	46	40
2	86	77	70	63	80	72	65	59	61	56	51		51	47	44		42	39	37	32
3	79	68	59	52	72	63	55	49	54	48	43		45	40	37		37	34	31	27
4	72	60	51	44	66	56	48	42	48	41	37		40	35	31		33	30	27	23
5	66	54	45	38	61	50	42	36	43	37	32		36	31	28		30	27	23	20
6	61	48	40	34	57	45	37	32	39	33	28		33	28	25		28	24	21	18
7	57	44	36	30	53	41	34	28	36	30	25		31	26	22		26	22	19	17
8	53	41	33	27	49	38	31	26	33	27	23		29	24	20		24	21	18	15
9	50	37	30	25	46	35	28	23	31	25	21		27	22	19		23	19	16	14
10	47	35	27	22	44	33	26	21	29	23	19		25	21	17		22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60846
5°	28516
10°	8016
15°	3767
20°	2482
25°	1843
30°	1517
35°	1324
40°	1196
45°	1122
50°	1069
55°	1042
60°	1022
65°	1018
70°	1015
75°	1020
80°	1009
85°	1024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1122 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	6.0
10°-20°	64.3	4.5
20°-30°	62.6	4.4
30°-40°	71.3	5.0
40°-50°	83.3	5.8
50°-60°	96.6	6.8
60°-70°	108.5	7.6
70°-80°	116.6	8.2
80°-90°	119.0	8.3
90°-100°	122.1	8.5
100°-110°	119.4	8.4
110°-120°	109.2	7.6
120°-130°	93.0	6.5
130°-140°	73.4	5.1
140°-150°	52.5	3.7
150°-160°	33.0	2.3
160°-170°	16.1	1.1
170°-180°	3.3	0.2
0°-30°	212.6	14.9
0°-40°	283.9	19.9
0°-60°	463.8	32.4
0°-90°	807.9	56.5
90°-120°	350.7	24.5
90°-150°	569.6	39.8
90°-180°	622.0	43.5
0°-180°	1429.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1923	
5°	1156	86
15°	216	64
25°	134	63
35°	113	71
45°	108	83
55°	108	97
65°	109	109
75°	111	117
85°	109	89
90°	110	60
95°	112	92
105°	113	119
115°	110	109
125°	104	93
135°	95	73
145°	83	52
155°	71	33
165°	56	16
175°	29	3
180°	19	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1923.3
2.5°	2087.1
5°	1156.1
7.5°	536.2
10°	394.1
12.5°	271.3
15°	216.3
17.5°	184.3
20°	161.9
22.5°	145.2
25°	133.7
27.5°	126.0
30°	120.3
32.5°	116.4
35°	113.2
37.5°	110.7
40°	108.8
42.5°	108.1
45°	107.5
47.5°	106.8
50°	106.8
52.5°	107.5
55°	107.5
57.5°	108.1
60°	108.1
62.5°	108.8
65°	109.4
67.5°	110.0
70°	110.0
72.5°	110.7
75°	110.7
77.5°	110.0
80°	108.8
82.5°	108.8
85°	108.8
87.5°	109.4
90°	110.0
92.5°	111.3
95°	112.0
97.5°	112.6
100°	113.2
102.5°	113.2
105°	113.2
107.5°	112.6
110°	112.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	111.3
115°	110.0
117.5°	108.8
120°	107.5
122.5°	105.6
125°	103.6
127.5°	101.7
130°	99.8
132.5°	97.3
135°	94.7
137.5°	92.1
140°	88.9
142.5°	86.4
145°	83.2
147.5°	80.6
150°	77.4
152.5°	74.2
155°	71.0
157.5°	67.8
160°	64.0
162.5°	60.8
165°	56.3
167.5°	51.2
170°	44.8
172.5°	37.7
175°	29.4
177.5°	21.8
180°	19.2



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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	7.6	8.6	8.4	9.5	10.7	7.6	8.6	8.4	9.5	10.7
	3H	10.4	11.3	11.3	12.3	13.4	10.4	11.3	11.3	12.3	13.4
	4H	11.8	12.7	12.7	13.6	14.8	11.8	12.7	12.7	13.6	14.8
	6H	13.1	13.9	14.0	14.9	16.1	13.1	13.9	14.0	14.9	16.1
	8H	13.8	14.6	14.7	15.5	16.7	13.8	14.6	14.7	15.5	16.7
	12H	14.4	15.1	15.3	16.1	17.3	14.4	15.1	15.3	16.1	17.3
4H	2H	8.3	9.2	9.2	10.1	11.3	8.3	9.2	9.2	10.1	11.3
	3H	11.3	12.1	12.2	13.0	14.3	11.3	12.1	12.2	13.0	14.3
	4H	12.8	13.6	13.8	14.5	15.8	12.8	13.6	13.8	14.5	15.8
	6H	14.4	15.0	15.3	16.0	17.2	14.4	15.0	15.3	16.0	17.2
	8H	15.1	15.7	16.0	16.7	17.9	15.1	15.7	16.0	16.7	17.9
	12H	15.8	16.4	16.8	17.4	18.6	15.8	16.4	16.8	17.4	18.6
8H	4H	13.3	13.9	14.3	14.9	16.2	13.3	13.9	14.3	14.9	16.2
	6H	15.0	15.6	16.0	16.6	17.8	15.0	15.6	16.0	16.6	17.8
	8H	15.9	16.4	16.9	17.4	18.7	15.9	16.4	16.9	17.4	18.7
	12H	16.8	17.3	17.8	18.2	19.6	16.8	17.3	17.8	18.2	19.6
12H	4H	13.4	14.0	14.4	15.0	16.2	13.4	14.0	14.4	15.0	16.2
	6H	15.2	15.7	16.2	16.7	18.0	15.2	15.7	16.2	16.7	18.0
	8H	16.2	16.6	17.2	17.6	18.9	16.2	16.6	17.2	17.6	18.9

(END OF REPORT)