

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: P1245454

Luminaire Tested: PRLX-UNA-S-927-09L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245454
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-927-09L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

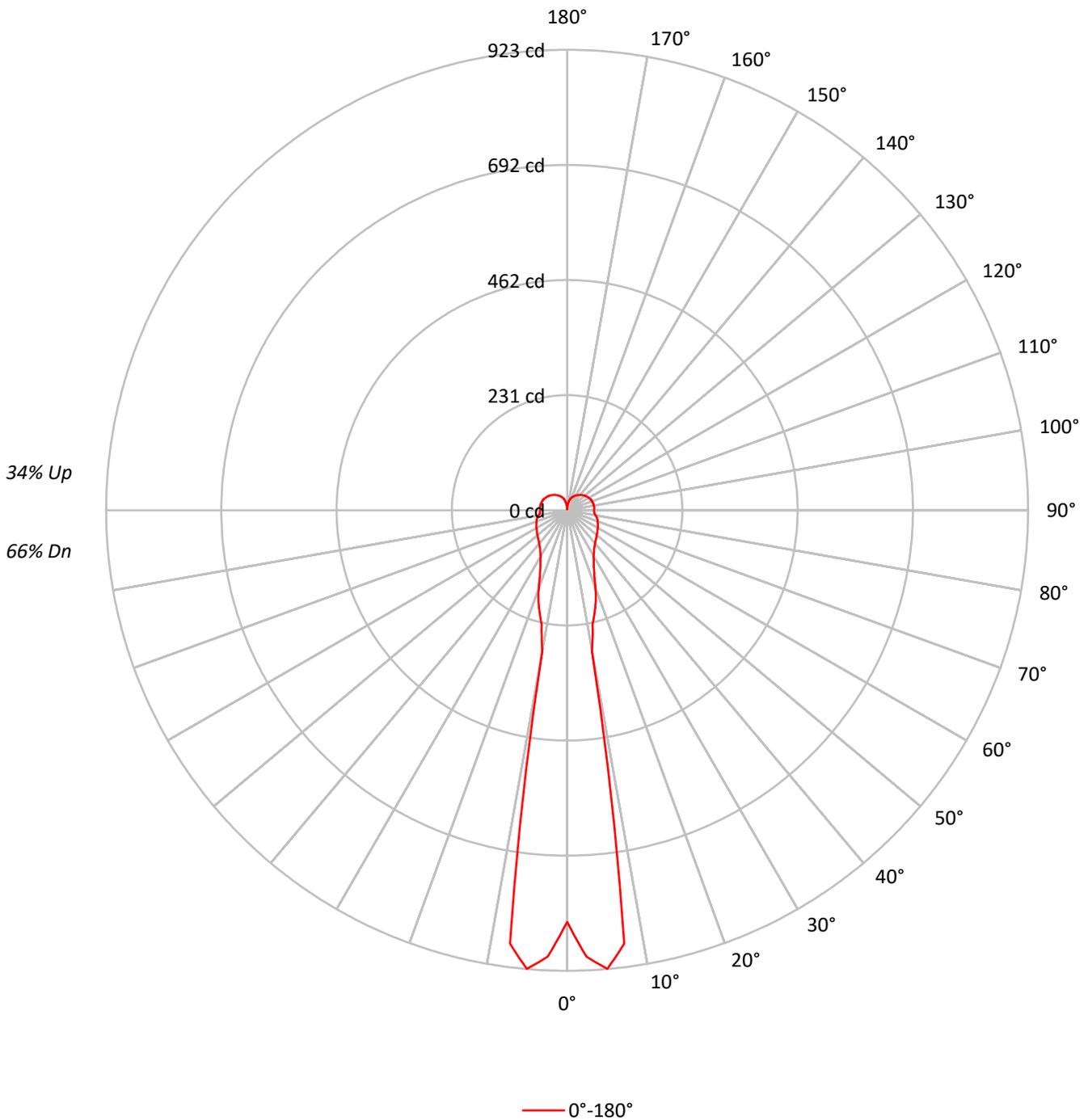
Lumens per Lamp: N/A
Luminaire Lumens: 863.0 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (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			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°	40415
5°	37500
10°	10045
15°	6553
20°	4608
25°	3219
30°	2509
35°	2099
40°	1842
45°	1665
50°	1526
55°	1422
60°	1345
65°	1279
70°	1224
75°	1179
80°	1112
85°	1081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	8.4
10°-20°	59.7	6.9
20°-30°	59.3	6.9
30°-40°	59.6	6.9
40°-50°	63.2	7.3
50°-60°	66.3	7.7
60°-70°	67.3	7.8
70°-80°	65.5	7.6
80°-90°	60.0	6.9
90°-100°	59.3	6.9
100°-110°	56.8	6.6
110°-120°	51.4	6.0
120°-130°	43.1	5.0
130°-140°	33.4	3.9
140°-150°	23.4	2.7
150°-160°	14.4	1.7
160°-170°	6.6	0.8
170°-180°	1.1	0.1
0°-30°	191.6	22.2
0°-40°	251.1	29.1
0°-60°	380.7	44.1
0°-90°	573.5	66.5
90°-120°	167.5	19.4
90°-150°	267.4	31.0
90°-180°	289.0	33.5
0°-180°	863.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	825	
5°	923	73
15°	212	60
25°	126	59
35°	94	60
45°	82	63
55°	74	66
65°	68	67
75°	62	66
85°	55	45
90°	54	30
95°	55	44
105°	54	57
115°	52	51
125°	48	43
135°	43	33
145°	37	23
155°	31	14
165°	23	7
175°	9	1
180°	2	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	825.0
2.5°	895.7
5°	922.7
7.5°	876.0
10°	287.4
12.5°	234.9
15°	212.3
17.5°	191.1
20°	165.6
22.5°	142.2
25°	126.2
27.5°	115.2
30°	105.8
32.5°	99.9
35°	94.1
37.5°	90.4
40°	86.8
42.5°	83.9
45°	81.7
47.5°	79.5
50°	77.3
52.5°	75.9
55°	73.7
57.5°	72.2
60°	70.8
62.5°	69.3
65°	67.8
67.5°	66.4
70°	64.9
72.5°	64.2
75°	62.0
77.5°	60.5
80°	57.6
82.5°	55.4
85°	54.7
87.5°	54.0
90°	54.0
92.5°	54.0
95°	54.7
97.5°	54.7
100°	54.0
102.5°	54.0
105°	54.0
107.5°	53.2
110°	53.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	52.5
115°	51.8
117.5°	51.1
120°	50.3
122.5°	48.9
125°	48.1
127.5°	46.7
130°	46.0
132.5°	44.5
135°	43.0
137.5°	41.6
140°	40.1
142.5°	38.7
145°	37.2
147.5°	35.7
150°	34.3
152.5°	32.8
155°	30.6
157.5°	29.2
160°	27.0
162.5°	25.5
165°	23.3
167.5°	20.4
170°	16.8
172.5°	13.1
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	9.2	10.3	10.0	11.1	12.2	9.2	10.3	10.0	11.1	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	14.6	15.7	12.9	13.8	13.7	14.6	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	17.2	14.5	15.3	15.3	16.2	17.2
	12H	15.0	15.8	15.8	16.6	17.7	15.0	15.8	15.8	16.6	17.7
4H	2H	9.9	10.8	10.7	11.7	12.7	9.9	10.8	10.7	11.7	12.7
	3H	12.5	13.3	13.4	14.2	15.3	12.5	13.3	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	15.1	15.8	16.0	16.7	17.8	15.1	15.8	16.0	16.7	17.8
	8H	15.7	16.4	16.6	17.2	18.3	15.7	16.4	16.6	17.2	18.3
	12H	16.3	16.9	17.2	17.8	18.9	16.3	16.9	17.2	17.8	18.9
8H	4H	14.3	14.9	15.1	15.8	16.9	14.3	14.9	15.1	15.8	16.9
	6H	15.7	16.3	16.6	17.2	18.3	15.7	16.3	16.6	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	17.2	17.7	18.1	18.6	19.8	17.2	17.7	18.1	18.6	19.8
12H	4H	14.4	14.9	15.2	15.8	16.9	14.4	14.9	15.2	15.8	16.9
	6H	15.9	16.4	16.8	17.3	18.4	15.9	16.4	16.8	17.3	18.4
	8H	16.7	17.1	17.6	18.0	19.2	16.7	17.1	17.6	18.0	19.2

(END OF REPORT)