

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: P1245303

Luminaire Tested: PRLX-UNA-L-927-20L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245303
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-927-20L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 6
Light Source: -
Ballast/Driver: -

Summary

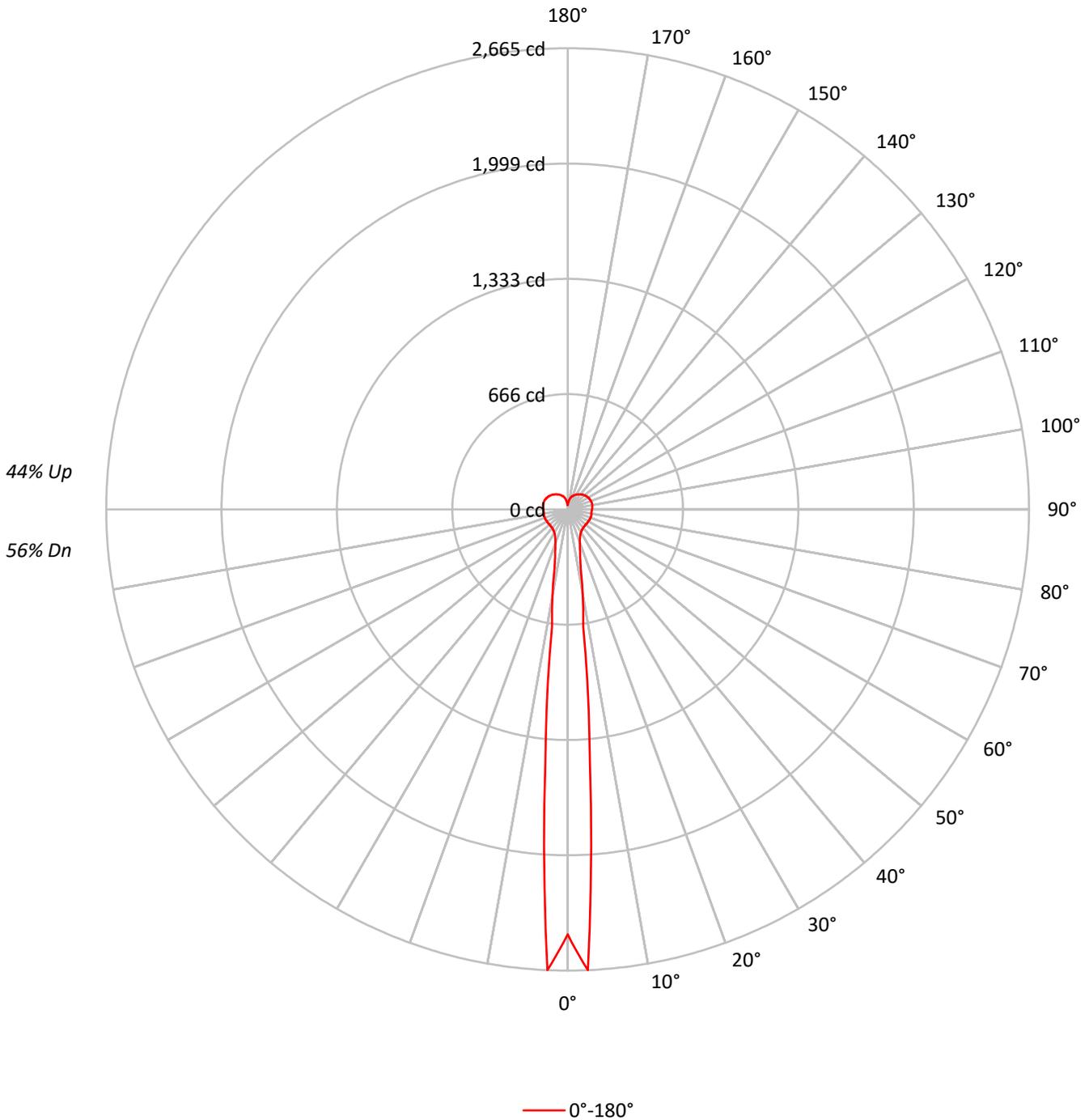
Lumens per Lamp: N/A
Luminaire Lumens: 1826.1 lumens
Efficiency: N/A
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 48.6
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: P1245303

CATALOG NUMBER: PRLX-UNA-L-927-20L-U-OW

Luminous Intensity Polar Plot





TEST NUMBER: P1245303

CATALOG NUMBER: PRLX-UNA-L-927-20L-U-OW

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	56
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°	77696
5°	36415
10°	10237
15°	4809
20°	3169
25°	2354
30°	1937
35°	1692
40°	1527
45°	1433
50°	1366
55°	1330
60°	1306
65°	1300
70°	1296
75°	1302
80°	1289
85°	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1433 cd/sqm



TEST NUMBER: P1245303

CATALOG NUMBER: PRLX-UNA-L-927-20L-U-OW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	6.0
10°-20°	82.1	4.5
20°-30°	80.0	4.4
30°-40°	91.0	5.0
40°-50°	106.3	5.8
50°-60°	123.4	6.8
60°-70°	138.6	7.6
70°-80°	148.8	8.2
80°-90°	152.0	8.3
90°-100°	155.9	8.5
100°-110°	152.6	8.4
110°-120°	139.4	7.6
120°-130°	118.8	6.5
130°-140°	93.7	5.1
140°-150°	67.0	3.7
150°-160°	42.2	2.3
160°-170°	20.5	1.1
170°-180°	4.2	0.2
0°-30°	271.5	14.9
0°-40°	362.6	19.9
0°-60°	592.3	32.4
0°-90°	1031.7	56.5
90°-120°	447.9	24.5
90°-150°	727.5	39.8
90°-180°	794.0	43.5
0°-180°	1826.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2456	
5°	1476	109
15°	276	82
25°	171	80
35°	145	91
45°	137	106
55°	137	123
65°	140	139
75°	141	149
85°	139	114
90°	140	77
95°	143	117
105°	145	153
115°	140	139
125°	132	119
135°	121	94
145°	106	67
155°	91	42
165°	72	21
175°	38	4
180°	24	

TEST NUMBER: P1245303

CATALOG NUMBER: PRLX-UNA-L-927-20L-U-OW

CANDELA DISTRIBUTION (FULL):

0°	
0°	2455.9
2.5°	2665.0
5°	1476.3
7.5°	684.6
10°	503.3
12.5°	346.4
15°	276.1
17.5°	235.3
20°	206.7
22.5°	185.5
25°	170.8
27.5°	160.9
30°	153.6
32.5°	148.7
35°	144.6
37.5°	141.3
40°	138.9
42.5°	138.1
45°	137.3
47.5°	136.4
50°	136.4
52.5°	137.3
55°	137.3
57.5°	138.1
60°	138.1
62.5°	138.9
65°	139.7
67.5°	140.5
70°	140.5
72.5°	141.3
75°	141.3
77.5°	140.5
80°	138.9
82.5°	138.9
85°	138.9
87.5°	139.7
90°	140.5
92.5°	142.2
95°	143.0
97.5°	143.8
100°	144.6
102.5°	144.6
105°	144.6
107.5°	143.8
110°	143.0

TEST NUMBER: P1245303

CATALOG NUMBER: PRLX-UNA-L-927-20L-U-OW

CANDELA DISTRIBUTION (continued):

	0°
112.5°	142.2
115°	140.5
117.5°	138.9
120°	137.3
122.5°	134.8
125°	132.4
127.5°	129.9
130°	127.5
132.5°	124.2
135°	120.9
137.5°	117.6
140°	113.6
142.5°	110.3
145°	106.2
147.5°	102.9
150°	98.9
152.5°	94.8
155°	90.7
157.5°	86.6
160°	81.7
162.5°	77.6
165°	71.9
167.5°	65.4
170°	57.2
172.5°	48.2
175°	37.6
177.5°	27.8
180°	24.5



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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	8.4	9.4	9.3	10.3	11.5	8.4	9.4	9.3	10.3	11.5
	3H	11.3	12.2	12.1	13.1	14.3	11.3	12.2	12.1	13.1	14.3
	4H	12.6	13.5	13.5	14.4	15.6	12.6	13.5	13.5	14.4	15.6
	6H	14.0	14.8	14.9	15.7	16.9	14.0	14.8	14.9	15.7	16.9
	8H	14.6	15.4	15.5	16.4	17.6	14.6	15.4	15.5	16.4	17.6
	12H	15.2	16.0	16.2	16.9	18.2	15.2	16.0	16.2	16.9	18.2
4H	2H	9.1	10.0	10.0	11.0	12.2	9.1	10.0	10.0	11.0	12.2
	3H	12.2	12.9	13.1	13.9	15.1	12.2	12.9	13.1	13.9	15.1
	4H	13.7	14.4	14.6	15.4	16.6	13.7	14.4	14.6	15.4	16.6
	6H	15.2	15.8	16.1	16.8	18.1	15.2	15.8	16.1	16.8	18.1
	8H	15.9	16.5	16.9	17.5	18.8	15.9	16.5	16.9	17.5	18.8
	12H	16.7	17.2	17.6	18.2	19.5	16.7	17.2	17.6	18.2	19.5
8H	4H	14.2	14.8	15.1	15.8	17.0	14.2	14.8	15.1	15.8	17.0
	6H	15.9	16.4	16.9	17.4	18.7	15.9	16.4	16.9	17.4	18.7
	8H	16.8	17.2	17.7	18.2	19.5	16.8	17.2	17.7	18.2	19.5
	12H	17.7	18.1	18.7	19.1	20.4	17.7	18.1	18.7	19.1	20.4
12H	4H	14.3	14.8	15.2	15.8	17.1	14.3	14.8	15.2	15.8	17.1
	6H	16.1	16.5	17.0	17.5	18.8	16.1	16.5	17.0	17.5	18.8
	8H	17.0	17.4	18.0	18.4	19.7	17.0	17.4	18.0	18.4	19.7

(END OF REPORT)