

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: P1245291

Luminaire Tested: PRLX-UNA-L-927-05L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245291
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-927-05L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

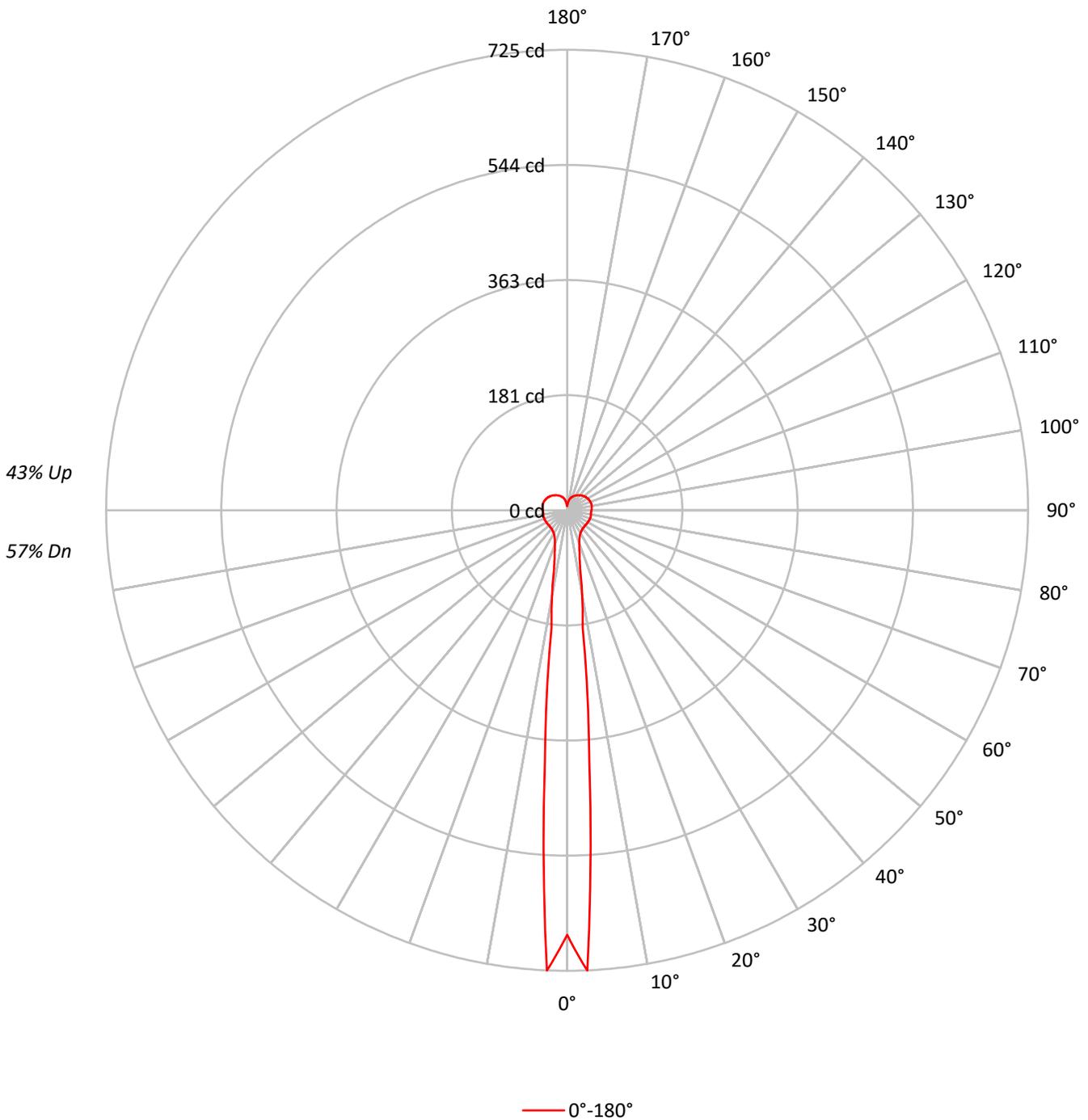
Lumens per Lamp: N/A
Luminaire Lumens: 497.0 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 14.8
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°	21146
5°	9911
10°	2787
15°	1310
20°	863
25°	641
30°	527
35°	461
40°	415
45°	390
50°	371
55°	362
60°	356
65°	354
70°	352
75°	355
80°	351
85°	356

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 390 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	6.0
10°-20°	22.3	4.5
20°-30°	21.8	4.4
30°-40°	24.8	5.0
40°-50°	28.9	5.8
50°-60°	33.6	6.8
60°-70°	37.7	7.6
70°-80°	40.5	8.2
80°-90°	41.4	8.3
90°-100°	42.4	8.5
100°-110°	41.5	8.4
110°-120°	37.9	7.6
120°-130°	32.4	6.5
130°-140°	25.5	5.1
140°-150°	18.2	3.7
150°-160°	11.5	2.3
160°-170°	5.6	1.1
170°-180°	1.1	0.2
0°-30°	73.9	14.9
0°-40°	98.7	19.9
0°-60°	161.2	32.4
0°-90°	280.8	56.5
90°-120°	121.9	24.5
90°-150°	198.0	39.8
90°-180°	216.0	43.5
0°-180°	497.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	668	
5°	402	30
15°	75	22
25°	46	22
35°	39	25
45°	37	29
55°	37	34
65°	38	38
75°	38	41
85°	38	31
90°	38	21
95°	39	32
105°	39	42
115°	38	38
125°	36	32
135°	33	25
145°	29	18
155°	25	11
165°	20	6
175°	10	1
180°	7	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	668.4
2.5°	725.4
5°	401.8
7.5°	186.3
10°	137.0
12.5°	94.3
15°	75.2
17.5°	64.0
20°	56.3
22.5°	50.5
25°	46.5
27.5°	43.8
30°	41.8
32.5°	40.5
35°	39.4
37.5°	38.5
40°	37.8
42.5°	37.6
45°	37.4
47.5°	37.1
50°	37.1
52.5°	37.4
55°	37.4
57.5°	37.6
60°	37.6
62.5°	37.8
65°	38.0
67.5°	38.2
70°	38.2
72.5°	38.5
75°	38.5
77.5°	38.2
80°	37.8
82.5°	37.8
85°	37.8
87.5°	38.0
90°	38.2
92.5°	38.7
95°	38.9
97.5°	39.1
100°	39.4
102.5°	39.4
105°	39.4
107.5°	39.1
110°	38.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	38.7
115°	38.2
117.5°	37.8
120°	37.4
122.5°	36.7
125°	36.0
127.5°	35.4
130°	34.7
132.5°	33.8
135°	32.9
137.5°	32.0
140°	30.9
142.5°	30.0
145°	28.9
147.5°	28.0
150°	26.9
152.5°	25.8
155°	24.7
157.5°	23.6
160°	22.2
162.5°	21.1
165°	19.6
167.5°	17.8
170°	15.6
172.5°	13.1
175°	10.2
177.5°	7.6
180°	6.7



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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	3.9	4.9	4.8	5.8	7.0	3.9	4.9	4.8	5.8	7.0
	3H	6.7	7.7	7.6	8.6	9.8	6.7	7.7	7.6	8.6	9.8
	4H	8.1	9.0	9.0	9.9	11.1	8.1	9.0	9.0	9.9	11.1
	6H	9.4	10.3	10.4	11.2	12.4	9.4	10.3	10.4	11.2	12.4
	8H	10.1	10.9	11.0	11.8	13.0	10.1	10.9	11.0	11.8	13.0
	12H	10.7	11.5	11.6	12.4	13.7	10.7	11.5	11.6	12.4	13.7
4H	2H	4.6	5.5	5.5	6.4	7.6	4.6	5.5	5.5	6.4	7.6
	3H	7.6	8.4	8.6	9.4	10.6	7.6	8.4	8.6	9.4	10.6
	4H	9.2	9.9	10.1	10.8	12.1	9.2	9.9	10.1	10.8	12.1
	6H	10.7	11.3	11.6	12.3	13.5	10.7	11.3	11.6	12.3	13.5
	8H	11.4	12.0	12.4	13.0	14.2	11.4	12.0	12.4	13.0	14.2
	12H	12.1	12.7	13.1	13.7	14.9	12.1	12.7	13.1	13.7	14.9
8H	4H	9.7	10.3	10.6	11.2	12.5	9.7	10.3	10.6	11.2	12.5
	6H	11.4	11.9	12.3	12.9	14.1	11.4	11.9	12.3	12.9	14.1
	8H	12.3	12.7	13.2	13.7	15.0	12.3	12.7	13.2	13.7	15.0
	12H	13.2	13.6	14.1	14.6	15.9	13.2	13.6	14.1	14.6	15.9
12H	4H	9.8	10.3	10.7	11.3	12.6	9.8	10.3	10.7	11.3	12.6
	6H	11.5	12.0	12.5	13.0	14.3	11.5	12.0	12.5	13.0	14.3
	8H	12.5	12.9	13.5	13.9	15.2	12.5	12.9	13.5	13.9	15.2

(END OF REPORT)