

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: P1245225

Luminaire Tested: PRLX-NIM-S-927-12L-U-NR

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-NIM-S-927-12L-U-NR
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL RIBS SHADE TEXTURED
LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

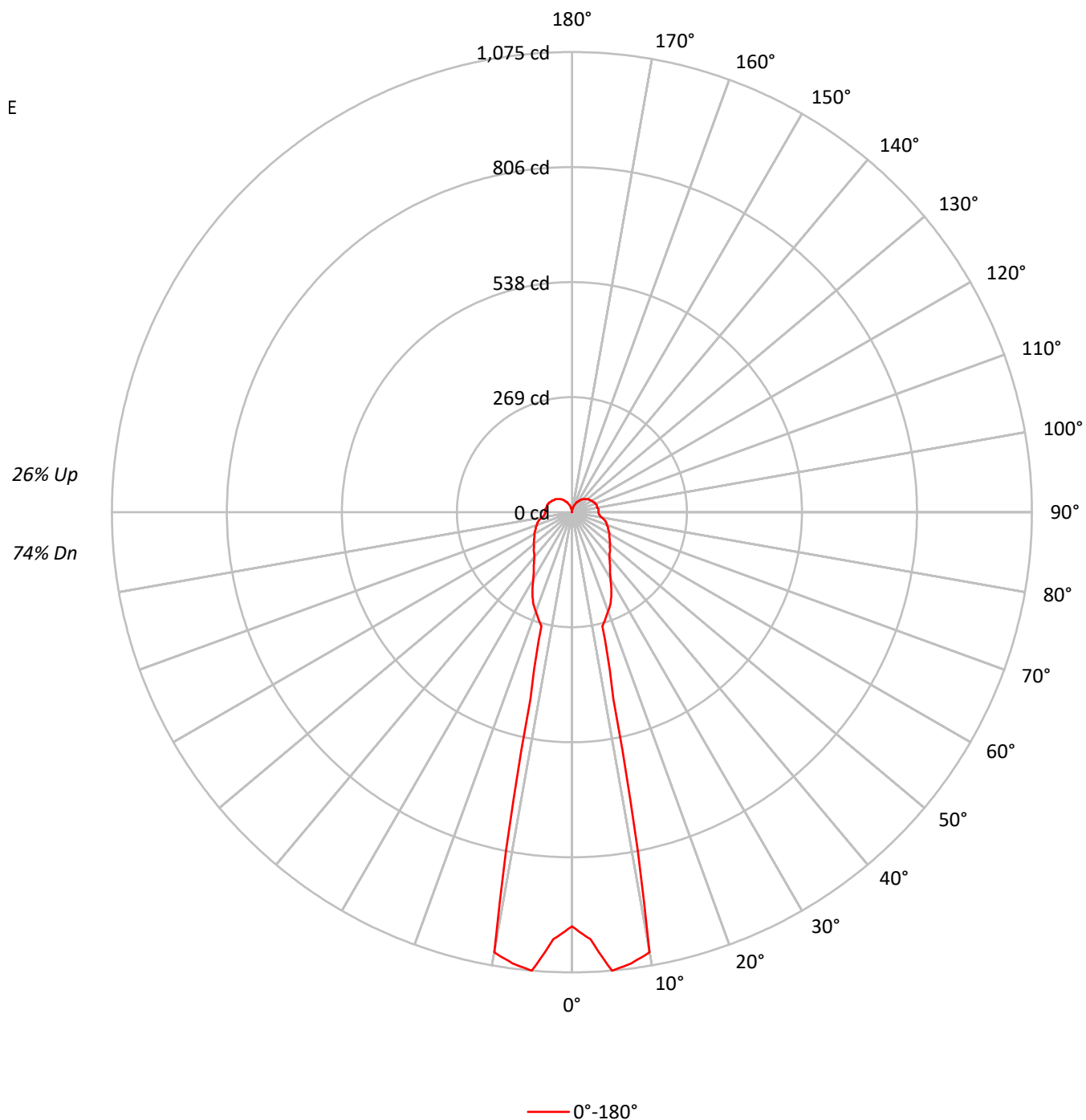
Lumens per Lamp: N/A
Luminaire Lumens: 1149.0 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): 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: P1245225

CATALOG NUMBER: PRLX-NIM-S-927-12L-U-NR

Luminous Intensity Polar Plot





TEST NUMBER: P1245225

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	113	113	113	113	107	107	107	107	96	96	96	87	87	87	78	78	78	74		
1	101	96	91	87	96	91	87	83	82	79	76	74	71	69	66	64	62	58		
2	92	84	77	71	87	80	73	68	72	67	63	65	61	57	58	55	52	49		
3	85	74	66	60	80	71	64	58	64	58	53	58	53	49	52	48	45	42		
4	78	67	58	52	74	64	56	50	58	52	47	52	47	43	47	43	40	37		
5	72	60	52	46	69	58	50	44	53	46	41	48	43	39	44	39	36	33		
6	68	55	47	41	64	53	45	40	48	42	37	44	39	35	41	36	33	30		
7	63	51	43	37	60	49	41	36	45	39	34	41	36	32	38	33	30	28		
8	59	47	39	34	56	45	38	33	42	36	31	39	33	30	36	31	28	26		
9	56	44	36	31	53	42	35	30	39	33	29	36	31	27	34	29	26	24		
10	53	41	34	29	51	40	33	28	37	31	27	34	29	26	32	28	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30611
5°	30208
10°	26561
15°	6450
20°	5381
25°	4480
30°	3539
35°	2936
40°	2508
45°	2270
50°	2056
55°	1898
60°	1793
65°	1662
70°	1579
75°	1504
80°	1356
85°	1291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2270 cd/sqm

TEST NUMBER: P1245225

CATALOG NUMBER: PRLX-NIM-S-927-12L-U-NR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	8.7
10°-20°	106.4	9.3
20°-30°	99.1	8.6
30°-40°	97.6	8.5
40°-50°	97.3	8.5
50°-60°	96.8	8.4
60°-70°	93.2	8.1
70°-80°	84.9	7.4
80°-90°	70.6	6.1
90°-100°	67.6	5.9
100°-110°	63.3	5.5
110°-120°	55.6	4.8
120°-130°	45.4	3.9
130°-140°	33.8	2.9
140°-150°	21.8	1.9
150°-160°	11.3	1.0
160°-170°	3.9	0.3
170°-180°	0.4	0.0
0°-30°	305.8	26.6
0°-40°	403.4	35.1
0°-60°	597.4	52.0
0°-90°	846.1	73.6
90°-120°	186.4	16.2
90°-150°	287.4	25.0
90°-180°	303.0	26.4
0°-180°	1149.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	968	
5°	1075	100
15°	276	106
25°	218	99
35°	155	98
45°	126	97
55°	108	97
65°	93	93
75°	81	85
85°	64	54
90°	62	34
95°	62	51
105°	60	63
115°	56	56
125°	50	45
135°	44	34
145°	35	22
155°	25	11
165°	12	4
175°	2	0
180°	0	

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CATALOG NUMBER: PRLX-NIM-S-927-12L-U-NR

CANDELA DISTRIBUTION (FULL):

0°	
0°	967.6
2.5°	998.7
5°	1075.3
7.5°	1062.9
10°	1044.2
12.5°	447.5
15°	275.6
17.5°	261.1
20°	246.6
22.5°	234.1
25°	217.6
27.5°	198.9
30°	180.3
32.5°	165.8
35°	155.4
37.5°	145.0
40°	136.7
42.5°	130.5
45°	126.4
47.5°	120.2
50°	116.0
52.5°	111.9
55°	107.7
57.5°	103.6
60°	101.5
62.5°	97.4
65°	93.2
67.5°	91.2
70°	87.0
72.5°	84.9
75°	80.8
77.5°	76.7
80°	70.4
82.5°	66.3
85°	64.2
87.5°	62.2
90°	62.2
92.5°	62.2
95°	62.2
97.5°	62.2
100°	60.1
102.5°	60.1
105°	60.1
107.5°	60.1
110°	58.0

TEST NUMBER: P1245225

CATALOG NUMBER: PRLX-NIM-S-927-12L-U-NR

CANDELA DISTRIBUTION (continued):

	0°
112.5°	58.0
115°	55.9
117.5°	53.9
120°	53.9
122.5°	51.8
125°	49.7
127.5°	49.7
130°	47.7
132.5°	45.6
135°	43.5
137.5°	41.4
140°	39.4
142.5°	37.3
145°	35.2
147.5°	31.1
150°	29.0
152.5°	26.9
155°	24.9
157.5°	20.7
160°	18.6
162.5°	16.6
165°	12.4
167.5°	10.4
170°	8.3
172.5°	4.1
175°	2.1
177.5°	0.0
180°	0.0

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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	10.8	11.9	11.5	12.7	13.5	10.8	11.9	11.5	12.7	13.5
	3H	13.1	14.1	13.8	14.9	15.8	13.1	14.1	13.8	14.9	15.8
	4H	14.2	15.1	14.9	15.9	16.8	14.2	15.1	14.9	15.9	16.8
	6H	15.1	16.0	15.9	16.8	17.8	15.1	16.0	15.9	16.8	17.8
	8H	15.5	16.4	16.3	17.2	18.2	15.5	16.4	16.3	17.2	18.2
	12H	16.0	16.8	16.7	17.6	18.6	16.0	16.8	16.7	17.6	18.6
4H	2H	11.4	12.4	12.1	13.1	14.0	11.4	12.4	12.1	13.1	14.0
	3H	13.9	14.7	14.7	15.5	16.5	13.9	14.7	14.7	15.5	16.5
	4H	15.1	15.9	15.9	16.7	17.7	15.1	15.9	15.9	16.7	17.7
	6H	16.2	16.9	17.0	17.8	18.7	16.2	16.9	17.0	17.8	18.7
	8H	16.8	17.4	17.6	18.2	19.2	16.8	17.4	17.6	18.2	19.2
	12H	17.3	17.9	18.1	18.7	19.7	17.3	17.9	18.1	18.7	19.7
8H	4H	15.5	16.2	16.3	17.0	18.0	15.5	16.2	16.3	17.0	18.0
	6H	16.8	17.4	17.6	18.2	19.2	16.8	17.4	17.6	18.2	19.2
	8H	17.4	17.9	18.3	18.8	19.8	17.4	17.9	18.3	18.8	19.8
	12H	18.1	18.6	19.0	19.4	20.5	18.1	18.6	19.0	19.4	20.5
12H	4H	15.6	16.2	16.4	17.0	18.0	15.6	16.2	16.4	17.0	18.0
	6H	16.9	17.4	17.8	18.3	19.3	16.9	17.4	17.8	18.3	19.3
	8H	17.6	18.1	18.5	18.9	20.0	17.6	18.1	18.5	18.9	20.0

(END OF REPORT)