

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: P1245029

Luminaire Tested: PRLX-NIM-L-927-27L-U-NR

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-NIM-L-927-27L-U-NR
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL RIBS SHADE TEXTURE
LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

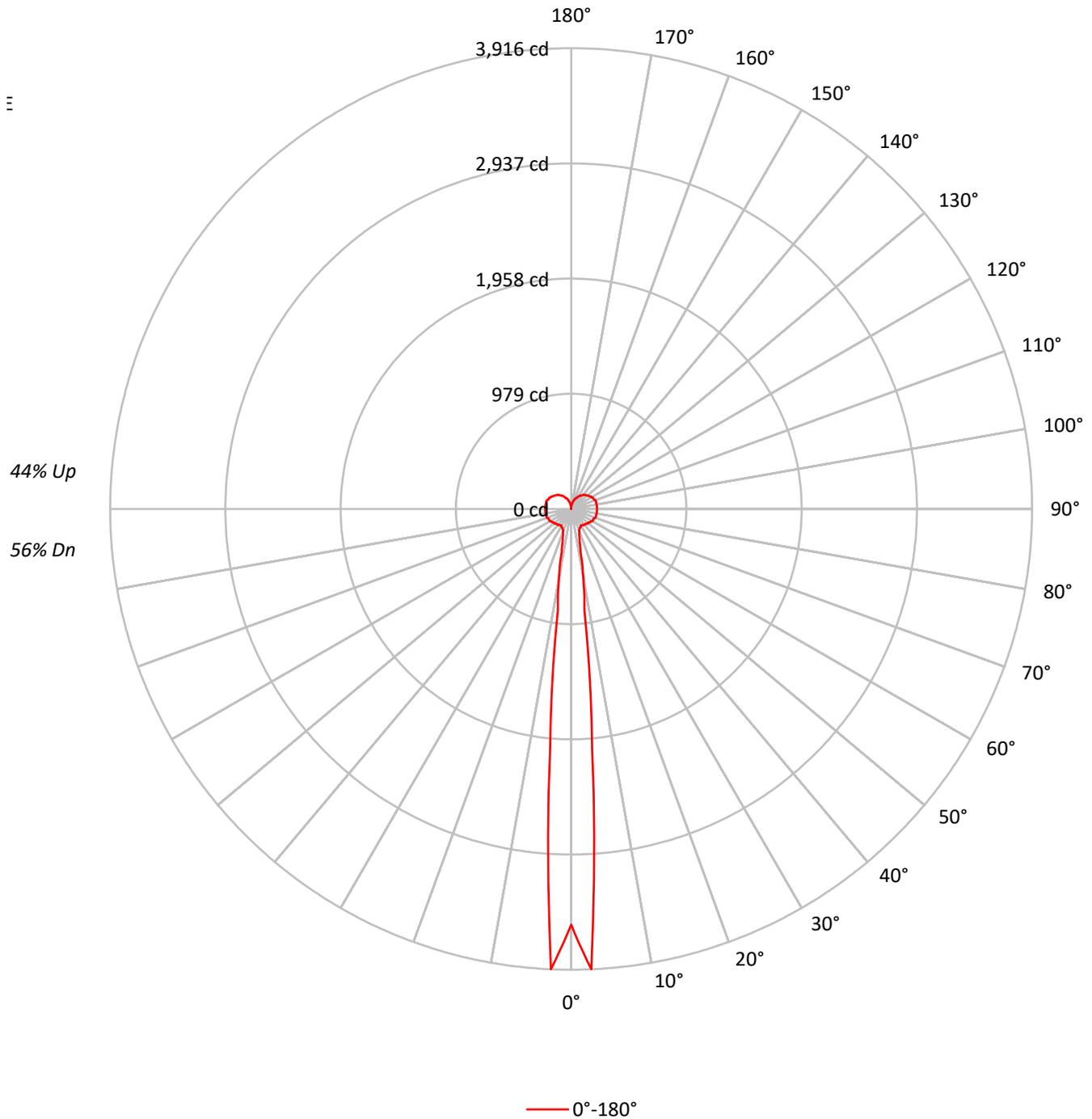
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2552.9 lumens
Efficiency: N/A
Efficacy: 36.8 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 69.4
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: P1245029
CATALOG NUMBER: PRLX-NIM-L-927-27L-U-NR

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	108	108	108	108	101	101	101	101	86	86	86		73	73	73		61	61	61	56
1	95	89	83	78	87	82	77	73	70	66	62		58	55	53		48	45	43	38
2	85	76	68	61	78	70	63	57	59	54	49		49	45	42		40	37	34	30
3	77	66	57	50	71	61	53	47	52	45	40		43	38	34		35	31	28	24
4	71	58	49	42	65	54	46	40	46	39	34		38	33	29		31	27	24	20
5	65	52	43	36	60	48	40	34	41	35	30		34	29	25		28	24	21	18
6	60	47	38	32	55	44	36	30	37	31	26		31	26	22		26	22	19	16
7	56	43	34	28	51	40	32	27	34	28	23		29	24	20		24	20	17	15
8	52	39	31	25	48	36	29	24	32	25	21		27	22	18		23	19	16	13
9	49	36	28	23	45	34	27	22	29	23	19		25	20	17		21	17	15	12
10	46	33	26	21	43	31	25	20	27	22	18		24	19	16		20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111755
5°	50602
10°	12049
15°	4778
20°	3028
25°	2419
30°	2075
35°	1926
40°	1929
45°	1832
50°	1867
55°	1914
60°	1971
65°	1939
70°	2024
75°	2022
80°	2036
85°	2065

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 2112 cd/sqm



TEST NUMBER: P1245029

CATALOG NUMBER: PRLX-NIM-L-927-27L-U-NR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	5.9
10°-20°	85.1	3.3
20°-30°	82.8	3.2
30°-40°	106.2	4.2
40°-50°	139.3	5.5
50°-60°	174.9	6.9
60°-70°	208.3	8.2
70°-80°	232.1	9.1
80°-90°	239.4	9.4
90°-100°	239.4	9.4
100°-110°	232.1	9.1
110°-120°	207.0	8.1
120°-130°	170.0	6.7
130°-140°	129.8	5.1
140°-150°	87.3	3.4
150°-160°	48.0	1.9
160°-170°	19.3	0.8
170°-180°	2.4	0.1
0°-30°	317.6	12.4
0°-40°	423.8	16.6
0°-60°	737.9	28.9
0°-90°	1417.7	55.5
90°-120°	678.4	26.6
90°-150°	1065.6	41.7
90°-180°	1135.0	44.5
0°-180°	2552.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3532	
5°	2052	150
15°	274	85
25°	176	83
35°	165	106
45°	176	139
55°	198	175
65°	208	208
75°	219	232
85°	219	179
90°	219	120
95°	219	179
105°	219	232
115°	208	207
125°	186	170
135°	165	130
145°	143	87
155°	99	48
165°	66	19
175°	11	2
180°	0	

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CATALOG NUMBER: PRLX-NIM-L-927-27L-U-NR

CANDELA DISTRIBUTION (FULL):

0°	
0°	3532.5
2.5°	3916.5
5°	2051.5
7.5°	866.7
10°	592.4
12.5°	373.0
15°	274.3
17.5°	230.4
20°	197.5
22.5°	186.5
25°	175.5
27.5°	175.5
30°	164.6
32.5°	164.6
35°	164.6
37.5°	175.5
40°	175.5
42.5°	175.5
45°	175.5
47.5°	186.5
50°	186.5
52.5°	186.5
55°	197.5
57.5°	197.5
60°	208.4
62.5°	208.4
65°	208.4
67.5°	208.4
70°	219.4
72.5°	219.4
75°	219.4
77.5°	219.4
80°	219.4
82.5°	219.4
85°	219.4
87.5°	219.4
90°	219.4
92.5°	219.4
95°	219.4
97.5°	219.4
100°	219.4
102.5°	219.4
105°	219.4
107.5°	219.4
110°	219.4

TEST NUMBER: P1245029

CATALOG NUMBER: PRLX-NIM-L-927-27L-U-NR

CANDELA DISTRIBUTION (continued):

	0°
112.5°	208.4
115°	208.4
117.5°	208.4
120°	197.5
122.5°	197.5
125°	186.5
127.5°	186.5
130°	175.5
132.5°	175.5
135°	164.6
137.5°	164.6
140°	153.6
142.5°	142.6
145°	142.6
147.5°	131.6
150°	120.7
152.5°	109.7
155°	98.7
157.5°	98.7
160°	87.8
162.5°	76.8
165°	65.8
167.5°	54.9
170°	43.9
172.5°	32.9
175°	11.0
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	9.7	10.7	10.6	11.7	12.8	9.7	10.7	10.6	11.7	12.8
	3H	12.8	13.7	13.7	14.6	15.9	12.8	13.7	13.7	14.6	15.9
	4H	14.3	15.2	15.2	16.1	17.3	14.3	15.2	15.2	16.1	17.3
	6H	15.7	16.5	16.6	17.5	18.7	15.7	16.5	16.6	17.5	18.7
	8H	16.4	17.2	17.3	18.2	19.4	16.4	17.2	17.3	18.2	19.4
	12H	17.0	17.8	18.0	18.8	20.0	17.0	17.8	18.0	18.8	20.0
4H	2H	10.5	11.4	11.4	12.3	13.6	10.5	11.4	11.4	12.3	13.6
	3H	13.8	14.5	14.7	15.5	16.7	13.8	14.5	14.7	15.5	16.7
	4H	15.4	16.1	16.3	17.1	18.3	15.4	16.1	16.3	17.1	18.3
	6H	17.0	17.6	17.9	18.6	19.9	17.0	17.6	17.9	18.6	19.9
	8H	17.8	18.4	18.7	19.3	20.6	17.8	18.4	18.7	19.3	20.6
	12H	18.5	19.1	19.5	20.1	21.3	18.5	19.1	19.5	20.1	21.3
8H	4H	15.9	16.5	16.9	17.5	18.8	15.9	16.5	16.9	17.5	18.8
	6H	17.7	18.2	18.7	19.2	20.5	17.7	18.2	18.7	19.2	20.5
	8H	18.6	19.1	19.6	20.1	21.4	18.6	19.1	19.6	20.1	21.4
	12H	19.6	20.0	20.5	21.0	22.3	19.6	20.0	20.5	21.0	22.3
12H	4H	16.0	16.6	17.0	17.6	18.8	16.0	16.6	17.0	17.6	18.8
	6H	17.9	18.4	18.9	19.4	20.7	17.9	18.4	18.9	19.4	20.7
	8H	18.9	19.3	19.9	20.3	21.6	18.9	19.3	19.9	20.3	21.6

(END OF REPORT)