

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: P1245030

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245030
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-WO
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, WOVEN OVAL SHADE TEXTURE LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

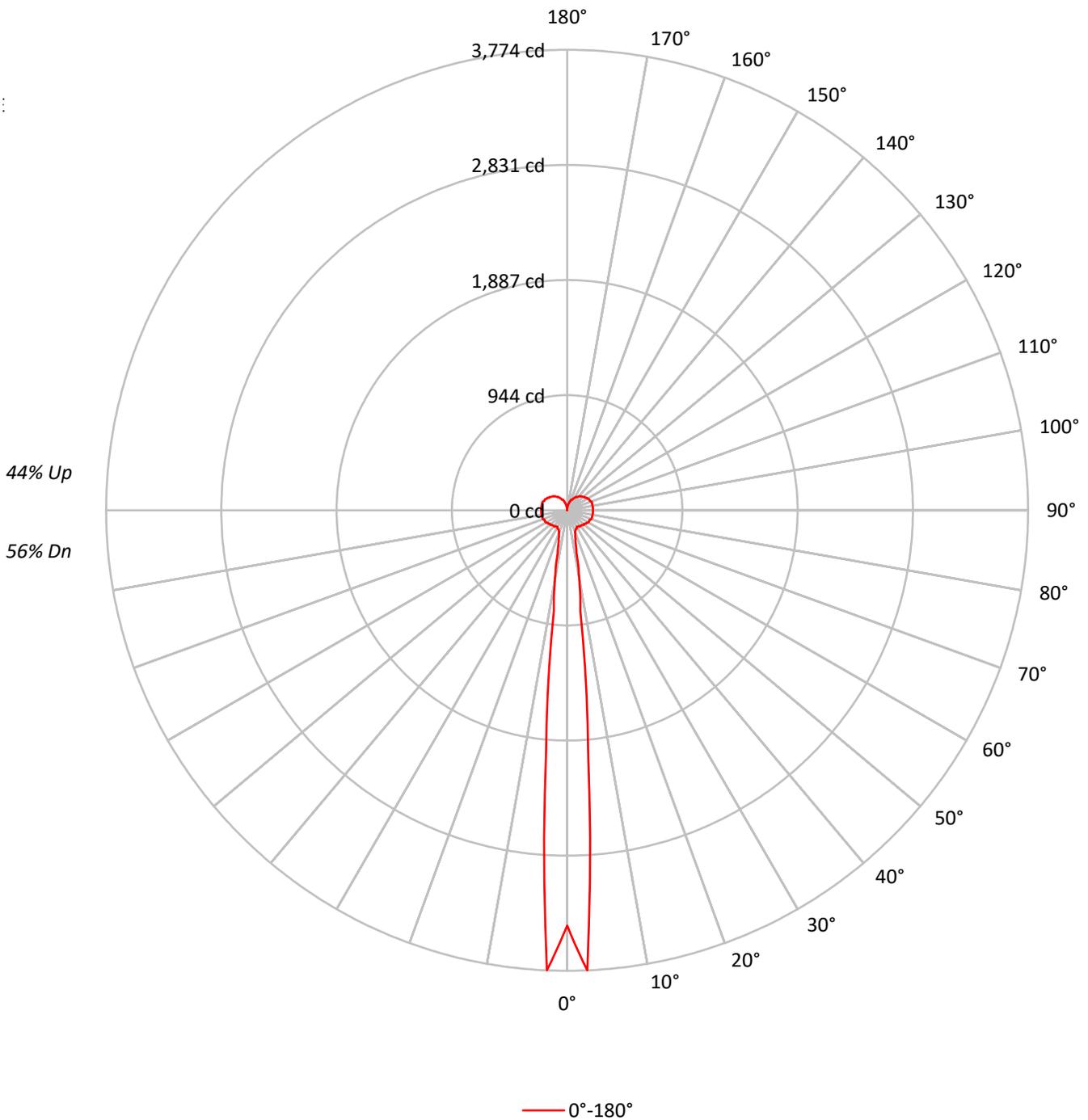
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2459.8 lumens
Efficiency: N/A
Efficacy: 35.4 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 (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: P1245030
CATALOG NUMBER: PRLX-NIM-L-927-27L-U-WO

Luminous Intensity Polar Plot





TEST NUMBER: P1245030

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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°	107684
5°	48760
10°	11610
15°	4603
20°	2917
25°	2331
30°	2000
35°	1856
40°	1859
45°	1765
50°	1799
55°	1844
60°	1899
65°	1868
70°	1950
75°	1948
80°	1961
85°	1990

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 2035 cd/sqm



TEST NUMBER: P1245030

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	5.9
10°-20°	82.0	3.3
20°-30°	79.7	3.2
30°-40°	102.3	4.2
40°-50°	134.2	5.5
50°-60°	168.5	6.9
60°-70°	200.7	8.2
70°-80°	223.6	9.1
80°-90°	230.7	9.4
90°-100°	230.7	9.4
100°-110°	223.6	9.1
110°-120°	199.4	8.1
120°-130°	163.8	6.7
130°-140°	125.1	5.1
140°-150°	84.2	3.4
150°-160°	46.2	1.9
160°-170°	18.6	0.8
170°-180°	2.3	0.1
0°-30°	306.0	12.4
0°-40°	408.3	16.6
0°-60°	711.0	28.9
0°-90°	1366.0	55.5
90°-120°	653.7	26.6
90°-150°	1026.7	41.7
90°-180°	1094.0	44.5
0°-180°	2459.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3404	
5°	1977	144
15°	264	82
25°	169	80
35°	159	102
45°	169	134
55°	190	169
65°	201	201
75°	211	224
85°	211	173
90°	211	116
95°	211	173
105°	211	224
115°	201	199
125°	180	164
135°	159	125
145°	137	84
155°	95	46
165°	63	19
175°	11	2
180°	0	

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	3403.8
2.5°	3773.8
5°	1976.8
7.5°	835.1
10°	570.8
12.5°	359.4
15°	264.3
17.5°	222.0
20°	190.3
22.5°	179.7
25°	169.1
27.5°	169.1
30°	158.6
32.5°	158.6
35°	158.6
37.5°	169.1
40°	169.1
42.5°	169.1
45°	169.1
47.5°	179.7
50°	179.7
52.5°	179.7
55°	190.3
57.5°	190.3
60°	200.8
62.5°	200.8
65°	200.8
67.5°	200.8
70°	211.4
72.5°	211.4
75°	211.4
77.5°	211.4
80°	211.4
82.5°	211.4
85°	211.4
87.5°	211.4
90°	211.4
92.5°	211.4
95°	211.4
97.5°	211.4
100°	211.4
102.5°	211.4
105°	211.4
107.5°	211.4
110°	211.4

TEST NUMBER: P1245030

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

CANDELA DISTRIBUTION (continued):

	0°
112.5°	200.8
115°	200.8
117.5°	200.8
120°	190.3
122.5°	190.3
125°	179.7
127.5°	179.7
130°	169.1
132.5°	169.1
135°	158.6
137.5°	158.6
140°	148.0
142.5°	137.4
145°	137.4
147.5°	126.9
150°	116.3
152.5°	105.7
155°	95.1
157.5°	95.1
160°	84.6
162.5°	74.0
165°	63.4
167.5°	52.9
170°	42.3
172.5°	31.7
175°	10.6
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	9.6	10.6	10.5	11.5	12.7	9.6	10.6	10.5	11.5	12.7
	3H	12.6	13.6	13.5	14.5	15.7	12.6	13.6	13.5	14.5	15.7
	4H	14.1	15.0	15.0	16.0	17.2	14.1	15.0	15.0	16.0	17.2
	6H	15.6	16.4	16.5	17.4	18.6	15.6	16.4	16.5	17.4	18.6
	8H	16.2	17.1	17.2	18.0	19.2	16.2	17.1	17.2	18.0	19.2
	12H	16.9	17.7	17.8	18.6	19.9	16.9	17.7	17.8	18.6	19.9
4H	2H	10.4	11.3	11.3	12.2	13.4	10.4	11.3	11.3	12.2	13.4
	3H	13.6	14.4	14.6	15.4	16.6	13.6	14.4	14.6	15.4	16.6
	4H	15.3	16.0	16.2	17.0	18.2	15.3	16.0	16.2	17.0	18.2
	6H	16.9	17.5	17.8	18.5	19.7	16.9	17.5	17.8	18.5	19.7
	8H	17.6	18.2	18.6	19.2	20.5	17.6	18.2	18.6	19.2	20.5
	12H	18.4	19.0	19.3	19.9	21.2	18.4	19.0	19.3	19.9	21.2
8H	4H	15.8	16.4	16.7	17.4	18.6	15.8	16.4	16.7	17.4	18.6
	6H	17.6	18.1	18.5	19.1	20.4	17.6	18.1	18.5	19.1	20.4
	8H	18.5	19.0	19.5	20.0	21.2	18.5	19.0	19.5	20.0	21.2
	12H	19.4	19.9	20.4	20.9	22.2	19.4	19.9	20.4	20.9	22.2
12H	4H	15.9	16.5	16.9	17.4	18.7	15.9	16.5	16.9	17.4	18.7
	6H	17.8	18.2	18.7	19.2	20.5	17.8	18.2	18.7	19.2	20.5
	8H	18.8	19.2	19.7	20.2	21.5	18.8	19.2	19.7	20.2	21.5

(END OF REPORT)