

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: P1245218

Luminaire Tested: PRLX-NIM-S-927-07L-U-WO

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245218
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-927-07L-U-WO
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, WOVEN OVAL SHADE TEXTURE LIGHT LEVEL 3
Light Source: -
Ballast/Driver: -

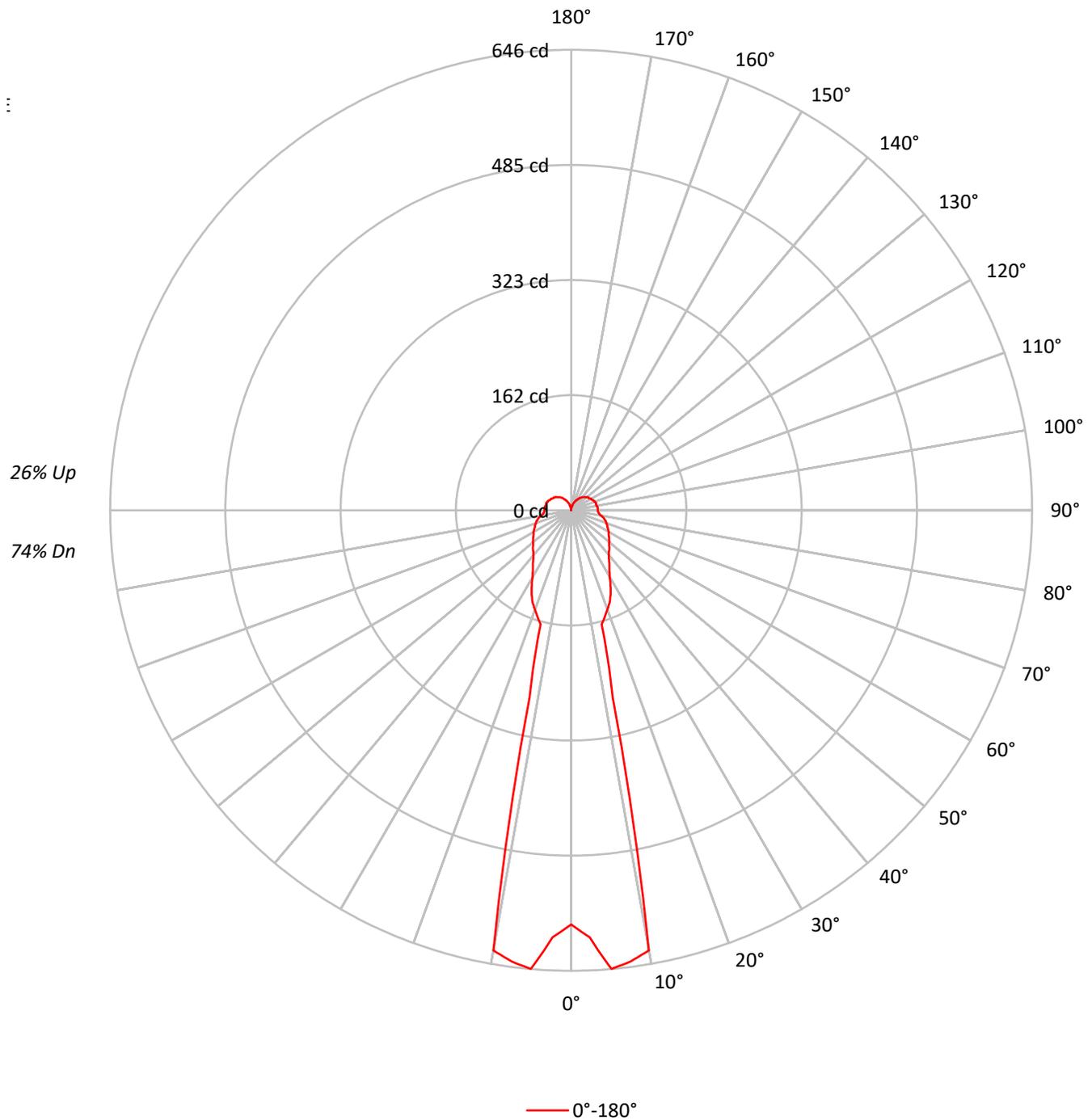
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 690.0 lumens
Efficiency: N/A
Efficacy: 42.6 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): 16.2
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

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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	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°	18384
5°	18142
10°	15951
15°	3873
20°	3232
25°	2689
30°	2124
35°	1763
40°	1506
45°	1363
50°	1235
55°	1140
60°	1077
65°	999
70°	949
75°	903
80°	815
85°	776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1363 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	8.7
10°-20°	63.9	9.3
20°-30°	59.5	8.6
30°-40°	58.6	8.5
40°-50°	58.4	8.5
50°-60°	58.1	8.4
60°-70°	56.0	8.1
70°-80°	51.0	7.4
80°-90°	42.4	6.1
90°-100°	40.5	5.9
100°-110°	38.0	5.5
110°-120°	33.4	4.8
120°-130°	27.3	4.0
130°-140°	20.3	2.9
140°-150°	13.1	1.9
150°-160°	6.8	1.0
160°-170°	2.4	0.3
170°-180°	0.2	0.0
0°-30°	183.6	26.6
0°-40°	242.2	35.1
0°-60°	358.7	52.0
0°-90°	508.1	73.6
90°-120°	111.9	16.2
90°-150°	172.6	25.0
90°-180°	182.0	26.4
0°-180°	690.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	581	
5°	646	60
15°	166	64
25°	131	59
35°	93	59
45°	76	58
55°	65	58
65°	56	56
75°	48	51
85°	39	32
90°	37	20
95°	37	30
105°	36	38
115°	34	33
125°	30	27
135°	26	20
145°	21	13
155°	15	7
165°	8	2
175°	1	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	581.1
2.5°	599.7
5°	645.8
7.5°	638.3
10°	627.1
12.5°	268.8
15°	165.5
17.5°	156.8
20°	148.1
22.5°	140.6
25°	130.6
27.5°	119.4
30°	108.2
32.5°	99.5
35°	93.3
37.5°	87.1
40°	82.1
42.5°	78.4
45°	75.9
47.5°	72.2
50°	69.7
52.5°	67.2
55°	64.7
57.5°	62.2
60°	61.0
62.5°	58.5
65°	56.0
67.5°	54.7
70°	52.3
72.5°	51.0
75°	48.5
77.5°	46.0
80°	42.3
82.5°	39.8
85°	38.6
87.5°	37.3
90°	37.3
92.5°	37.3
95°	37.3
97.5°	37.3
100°	36.1
102.5°	36.1
105°	36.1
107.5°	36.1
110°	34.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	34.8
115°	33.6
117.5°	32.4
120°	32.4
122.5°	31.1
125°	29.9
127.5°	29.9
130°	28.6
132.5°	27.4
135°	26.1
137.5°	24.9
140°	23.6
142.5°	22.4
145°	21.2
147.5°	18.7
150°	17.4
152.5°	16.2
155°	14.9
157.5°	12.4
160°	11.2
162.5°	10.0
165°	7.5
167.5°	6.2
170°	5.0
172.5°	2.5
175°	1.2
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	9.0	10.1	9.7	10.9	11.8	9.0	10.1	9.7	10.9	11.8
	3H	11.3	12.4	12.0	13.1	14.0	11.3	12.4	12.0	13.1	14.0
	4H	12.4	13.4	13.1	14.1	15.1	12.4	13.4	13.1	14.1	15.1
	6H	13.4	14.3	14.1	15.0	16.0	13.4	14.3	14.1	15.0	16.0
	8H	13.8	14.7	14.5	15.4	16.4	13.8	14.7	14.5	15.4	16.4
	12H	14.2	15.0	15.0	15.8	16.8	14.2	15.0	15.0	15.8	16.8
4H	2H	9.6	10.6	10.3	11.3	12.3	9.6	10.6	10.3	11.3	12.3
	3H	12.1	13.0	12.9	13.8	14.7	12.1	13.0	12.9	13.8	14.7
	4H	13.3	14.1	14.1	14.9	15.9	13.3	14.1	14.1	14.9	15.9
	6H	14.5	15.2	15.3	16.0	17.0	14.5	15.2	15.3	16.0	17.0
	8H	15.0	15.6	15.8	16.5	17.4	15.0	15.6	15.8	16.5	17.4
	12H	15.5	16.1	16.3	16.9	17.9	15.5	16.1	16.3	16.9	17.9
8H	4H	13.7	14.4	14.5	15.2	16.2	13.7	14.4	14.5	15.2	16.2
	6H	15.0	15.6	15.9	16.4	17.4	15.0	15.6	15.9	16.4	17.4
	8H	15.7	16.2	16.5	17.0	18.0	15.7	16.2	16.5	17.0	18.0
	12H	16.3	16.8	17.2	17.6	18.7	16.3	16.8	17.2	17.6	18.7
12H	4H	13.8	14.4	14.6	15.2	16.2	13.8	14.4	14.6	15.2	16.2
	6H	15.2	15.7	16.0	16.5	17.5	15.2	15.7	16.0	16.5	17.5
	8H	15.9	16.3	16.7	17.2	18.2	15.9	16.3	16.7	17.2	18.2

(END OF REPORT)