

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: P1245211

Luminaire Tested: PRLX-NIM-S-927-05L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245211
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-927-05L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, LAYERED FINE SHADE TEXTURE
LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

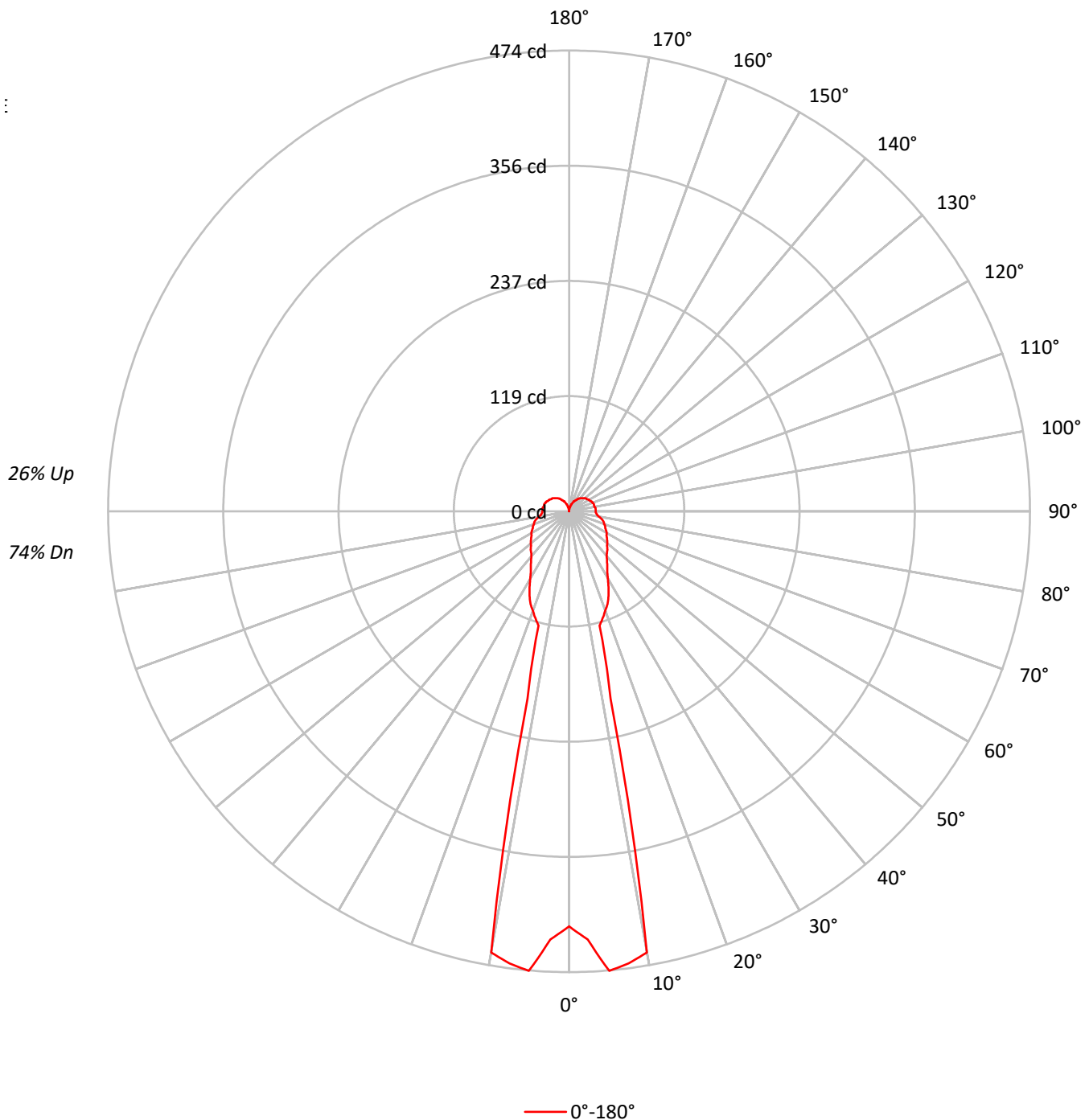
Lumens per Lamp: N/A
Luminaire Lumens: 507.0 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 11.1
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	113	113	113	113	107	107	107	107	96	96	96		87	87	87		78
1	101	96	91	87	96	91	87	83	82	79	76		74	71	69		66
2	92	84	77	71	87	80	73	68	72	67	63		65	61	57		58
3	85	74	66	60	80	71	64	58	64	58	53		58	53	49		52
4	78	67	58	52	74	64	56	50	58	52	47		52	47	43		47
5	72	60	52	46	69	58	50	44	53	46	41		48	43	39		44
6	68	55	47	41	64	53	45	40	48	42	37		44	39	35		41
7	63	51	43	37	60	49	41	36	45	39	34		41	36	32		38
8	59	47	39	34	56	45	38	33	42	36	31		39	33	30		36
9	56	44	36	31	53	42	35	30	39	33	29		36	31	27		34
10	53	41	34	29	51	40	33	28	37	31	27		34	29	26		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13509
5°	13330
10°	11721
15°	2846
20°	2374
25°	1977
30°	1561
35°	1296
40°	1106
45°	1002
50°	907
55°	837
60°	791
65°	733
70°	697
75°	665
80°	599
85°	569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1002 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	8.7
10°-20°	47.0	9.3
20°-30°	43.7	8.6
30°-40°	43.1	8.5
40°-50°	42.9	8.5
50°-60°	42.7	8.4
60°-70°	41.1	8.1
70°-80°	37.5	7.4
80°-90°	31.2	6.1
90°-100°	29.8	5.9
100°-110°	27.9	5.5
110°-120°	24.5	4.8
120°-130°	20.0	3.9
130°-140°	14.9	2.9
140°-150°	9.6	1.9
150°-160°	5.0	1.0
160°-170°	1.7	0.3
170°-180°	0.2	0.0
0°-30°	134.9	26.6
0°-40°	178.0	35.1
0°-60°	263.6	52.0
0°-90°	373.3	73.6
90°-120°	82.2	16.2
90°-150°	126.7	25.0
90°-180°	134.0	26.4
0°-180°	507.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	427	
5°	474	44
15°	122	47
25°	96	44
35°	69	43
45°	56	43
55°	48	43
65°	41	41
75°	36	37
85°	28	24
90°	27	15
95°	27	22
105°	26	28
115°	25	25
125°	22	20
135°	19	15
145°	16	10
155°	11	5
165°	6	2
175°	1	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	427.0
2.5°	440.7
5°	474.5
7.5°	469.0
10°	460.8
12.5°	197.5
15°	121.6
17.5°	115.2
20°	108.8
22.5°	103.3
25°	96.0
27.5°	87.8
30°	79.5
32.5°	73.1
35°	68.6
37.5°	64.0
40°	60.3
42.5°	57.6
45°	55.8
47.5°	53.0
50°	51.2
52.5°	49.4
55°	47.5
57.5°	45.7
60°	44.8
62.5°	43.0
65°	41.1
67.5°	40.2
70°	38.4
72.5°	37.5
75°	35.7
77.5°	33.8
80°	31.1
82.5°	29.3
85°	28.3
87.5°	27.4
90°	27.4
92.5°	27.4
95°	27.4
97.5°	27.4
100°	26.5
102.5°	26.5
105°	26.5
107.5°	26.5
110°	25.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	25.6
115°	24.7
117.5°	23.8
120°	23.8
122.5°	22.9
125°	21.9
127.5°	21.9
130°	21.0
132.5°	20.1
135°	19.2
137.5°	18.3
140°	17.4
142.5°	16.5
145°	15.5
147.5°	13.7
150°	12.8
152.5°	11.9
155°	11.0
157.5°	9.1
160°	8.2
162.5°	7.3
165°	5.5
167.5°	4.6
170°	3.7
172.5°	1.8
175°	0.9
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	7.9	9.1	8.7	9.8	10.7	7.9	9.1	8.7	9.8	10.7
	3H	10.2	11.3	11.0	12.0	13.0	10.2	11.3	11.0	12.0	13.0
	4H	11.3	12.3	12.1	13.1	14.0	11.3	12.3	12.1	13.1	14.0
	6H	12.3	13.2	13.0	14.0	14.9	12.3	13.2	13.0	14.0	14.9
	8H	12.7	13.6	13.5	14.4	15.3	12.7	13.6	13.5	14.4	15.3
	12H	13.1	14.0	13.9	14.8	15.7	13.1	14.0	13.9	14.8	15.7
4H	2H	8.5	9.5	9.3	10.3	11.2	8.5	9.5	9.3	10.3	11.2
	3H	11.1	11.9	11.8	12.7	13.6	11.1	11.9	11.8	12.7	13.6
	4H	12.3	13.1	13.1	13.9	14.8	12.3	13.1	13.1	13.9	14.8
	6H	13.4	14.1	14.2	14.9	15.9	13.4	14.1	14.2	14.9	15.9
	8H	13.9	14.6	14.7	15.4	16.4	13.9	14.6	14.7	15.4	16.4
	12H	14.4	15.0	15.2	15.9	16.9	14.4	15.0	15.2	15.9	16.9
8H	4H	12.7	13.3	13.5	14.1	15.1	12.7	13.3	13.5	14.1	15.1
	6H	14.0	14.5	14.8	15.4	16.4	14.0	14.5	14.8	15.4	16.4
	8H	14.6	15.1	15.4	16.0	17.0	14.6	15.1	15.4	16.0	17.0
	12H	15.3	15.7	16.1	16.6	17.6	15.3	15.7	16.1	16.6	17.6
12H	4H	12.7	13.3	13.5	14.2	15.2	12.7	13.3	13.5	14.2	15.2
	6H	14.1	14.6	14.9	15.4	16.5	14.1	14.6	14.9	15.4	16.5
	8H	14.8	15.2	15.6	16.1	17.1	14.8	15.2	15.6	16.1	17.1

(END OF REPORT)