

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: P1245220

Luminaire Tested: PRLX-NIM-S-927-09L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245220
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-927-09L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL LINES SHADE TEXTURE, LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

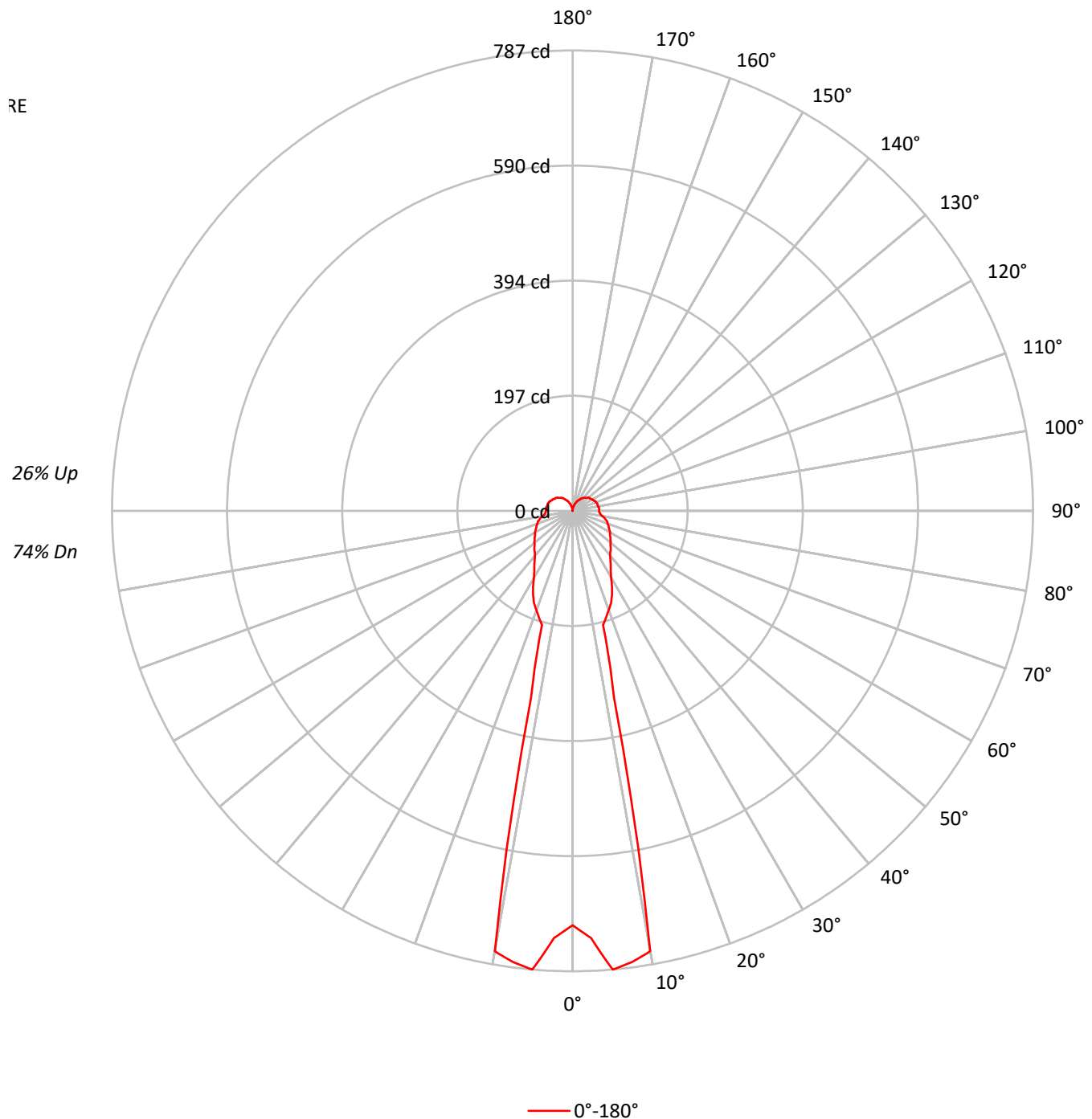
Lumens per Lamp: N/A
Luminaire Lumens: 841.0 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 21.3
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°	22405
5°	22111
10°	19441
15°	4720
20°	3939
25°	3278
30°	2589
35°	2148
40°	1836
45°	1661
50°	1505
55°	1391
60°	1312
65°	1216
70°	1156
75°	1100
80°	994
85°	945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	8.7
10°-20°	77.9	9.3
20°-30°	72.5	8.6
30°-40°	71.4	8.5
40°-50°	71.2	8.5
50°-60°	70.8	8.4
60°-70°	68.2	8.1
70°-80°	62.1	7.4
80°-90°	51.7	6.1
90°-100°	49.4	5.9
100°-110°	46.4	5.5
110°-120°	40.7	4.8
120°-130°	33.2	3.9
130°-140°	24.7	2.9
140°-150°	15.9	1.9
150°-160°	8.3	1.0
160°-170°	2.9	0.3
170°-180°	0.3	0.0
0°-30°	223.8	26.6
0°-40°	295.2	35.1
0°-60°	437.2	52.0
0°-90°	619.3	73.6
90°-120°	136.5	16.2
90°-150°	210.3	25.0
90°-180°	222.0	26.4
0°-180°	841.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	708	
5°	787	73
15°	202	78
25°	159	73
35°	114	71
45°	92	71
55°	79	71
65°	68	68
75°	59	62
85°	47	39
90°	46	25
95°	46	37
105°	44	46
115°	41	41
125°	36	33
135°	32	25
145°	26	16
155°	18	8
165°	9	3
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	708.2
2.5°	731.0
5°	787.1
7.5°	778.0
10°	764.3
12.5°	327.6
15°	201.7
17.5°	191.1
20°	180.5
22.5°	171.4
25°	159.2
27.5°	145.6
30°	131.9
32.5°	121.3
35°	113.7
37.5°	106.2
40°	100.1
42.5°	95.5
45°	92.5
47.5°	88.0
50°	84.9
52.5°	81.9
55°	78.9
57.5°	75.8
60°	74.3
62.5°	71.3
65°	68.2
67.5°	66.7
70°	63.7
72.5°	62.2
75°	59.1
77.5°	56.1
80°	51.6
82.5°	48.5
85°	47.0
87.5°	45.5
90°	45.5
92.5°	45.5
95°	45.5
97.5°	45.5
100°	44.0
102.5°	44.0
105°	44.0
107.5°	44.0
110°	42.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	42.5
115°	40.9
117.5°	39.4
120°	39.4
122.5°	37.9
125°	36.4
127.5°	36.4
130°	34.9
132.5°	33.4
135°	31.8
137.5°	30.3
140°	28.8
142.5°	27.3
145°	25.8
147.5°	22.7
150°	21.2
152.5°	19.7
155°	18.2
157.5°	15.2
160°	13.6
162.5°	12.1
165°	9.1
167.5°	7.6
170°	6.1
172.5°	3.0
175°	1.5
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	10.8	10.4	11.6	12.5	9.7	10.8	10.4	11.6	12.5
	3H	12.0	13.0	12.7	13.8	14.7	12.0	13.0	12.7	13.8	14.7
	4H	13.1	14.1	13.8	14.8	15.7	13.1	14.1	13.8	14.8	15.7
	6H	14.0	15.0	14.8	15.7	16.7	14.0	15.0	14.8	15.7	16.7
	8H	14.5	15.3	15.2	16.1	17.1	14.5	15.3	15.2	16.1	17.1
	12H	14.9	15.7	15.7	16.5	17.5	14.9	15.7	15.7	16.5	17.5
4H	2H	10.3	11.3	11.0	12.0	13.0	10.3	11.3	11.0	12.0	13.0
	3H	12.8	13.7	13.6	14.5	15.4	12.8	13.7	13.6	14.5	15.4
	4H	14.0	14.8	14.8	15.6	16.6	14.0	14.8	14.8	15.6	16.6
	6H	15.2	15.9	16.0	16.7	17.7	15.2	15.9	16.0	16.7	17.7
	8H	15.7	16.3	16.5	17.1	18.1	15.7	16.3	16.5	17.1	18.1
	12H	16.2	16.8	17.0	17.6	18.6	16.2	16.8	17.0	17.6	18.6
8H	4H	14.4	15.1	15.2	15.9	16.9	14.4	15.1	15.2	15.9	16.9
	6H	15.7	16.3	16.5	17.1	18.1	15.7	16.3	16.5	17.1	18.1
	8H	16.4	16.9	17.2	17.7	18.7	16.4	16.9	17.2	17.7	18.7
	12H	17.0	17.5	17.9	18.3	19.4	17.0	17.5	17.9	18.3	19.4
12H	4H	14.5	15.1	15.3	15.9	16.9	14.5	15.1	15.3	15.9	16.9
	6H	15.8	16.3	16.7	17.2	18.2	15.8	16.3	16.7	17.2	18.2
	8H	16.6	17.0	17.4	17.8	18.9	16.6	17.0	17.4	17.8	18.9

(END OF REPORT)