

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: P1245216

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245216
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-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL LINES SHADE TEXTURE
LIGHT LEVEL 3
Light Source: -
Ballast/Driver: -

Summary

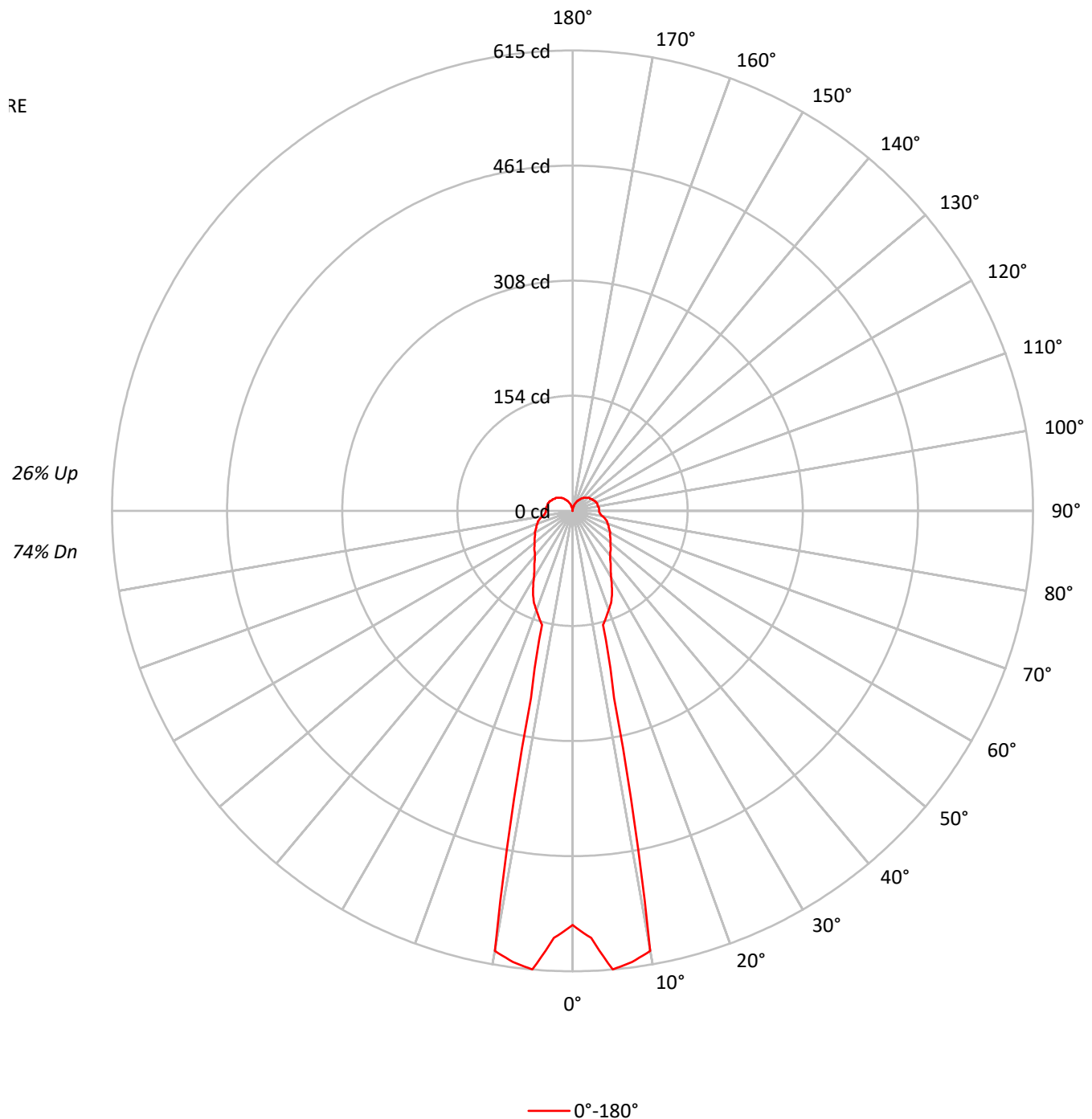
Lumens per Lamp: N/A
Luminaire Lumens: 657.0 lumens
Efficiency: N/A
Efficacy: 40.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	17504
5°	17274
10°	15188
15°	3688
20°	3077
25°	2561
30°	2024
35°	1680
40°	1435
45°	1298
50°	1175
55°	1086
60°	1026
65°	950
70°	904
75°	860
80°	776
85°	738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	8.7
10°-20°	60.8	9.3
20°-30°	56.6	8.6
30°-40°	55.8	8.5
40°-50°	55.6	8.5
50°-60°	55.3	8.4
60°-70°	53.3	8.1
70°-80°	48.5	7.4
80°-90°	40.4	6.1
90°-100°	38.6	5.9
100°-110°	36.2	5.5
110°-120°	31.8	4.8
120°-130°	25.9	3.9
130°-140°	19.3	2.9
140°-150°	12.4	1.9
150°-160°	6.5	1.0
160°-170°	2.2	0.3
170°-180°	0.2	0.0
0°-30°	174.8	26.6
0°-40°	230.7	35.1
0°-60°	341.6	52.0
0°-90°	483.8	73.6
90°-120°	106.6	16.2
90°-150°	164.3	25.0
90°-180°	173.0	26.3
0°-180°	657.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	553	
5°	615	57
15°	158	61
25°	124	57
35°	89	56
45°	72	56
55°	62	55
65°	53	53
75°	46	49
85°	37	31
90°	36	19
95°	36	29
105°	34	36
115°	32	32
125°	28	26
135°	25	19
145°	20	12
155°	14	6
165°	7	2
175°	1	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	553.3
2.5°	571.0
5°	614.9
7.5°	607.8
10°	597.1
12.5°	255.9
15°	157.6
17.5°	149.3
20°	141.0
22.5°	133.9
25°	124.4
27.5°	113.7
30°	103.1
32.5°	94.8
35°	88.9
37.5°	82.9
40°	78.2
42.5°	74.6
45°	72.3
47.5°	68.7
50°	66.3
52.5°	64.0
55°	61.6
57.5°	59.2
60°	58.1
62.5°	55.7
65°	53.3
67.5°	52.1
70°	49.8
72.5°	48.6
75°	46.2
77.5°	43.8
80°	40.3
82.5°	37.9
85°	36.7
87.5°	35.5
90°	35.5
92.5°	35.5
95°	35.5
97.5°	35.5
100°	34.4
102.5°	34.4
105°	34.4
107.5°	34.4
110°	33.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	33.2
115°	32.0
117.5°	30.8
120°	30.8
122.5°	29.6
125°	28.4
127.5°	28.4
130°	27.2
132.5°	26.1
135°	24.9
137.5°	23.7
140°	22.5
142.5°	21.3
145°	20.1
147.5°	17.8
150°	16.6
152.5°	15.4
155°	14.2
157.5°	11.8
160°	10.7
162.5°	9.5
165°	7.1
167.5°	5.9
170°	4.7
172.5°	2.4
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	8.8	10.0	9.6	10.7	11.6	8.8	10.0	9.6	10.7	11.6
	3H	11.1	12.2	11.9	12.9	13.9	11.1	12.2	11.9	12.9	13.9
	4H	12.2	13.2	13.0	14.0	14.9	12.2	13.2	13.0	14.0	14.9
	6H	13.2	14.1	13.9	14.9	15.8	13.2	14.1	13.9	14.9	15.8
	8H	13.6	14.5	14.4	15.3	16.2	13.6	14.5	14.4	15.3	16.2
	12H	14.0	14.9	14.8	15.7	16.6	14.0	14.9	14.8	15.7	16.6
4H	2H	9.4	10.4	10.2	11.2	12.1	9.4	10.4	10.2	11.2	12.1
	3H	12.0	12.8	12.7	13.6	14.5	12.0	12.8	12.7	13.6	14.5
	4H	13.2	14.0	14.0	14.8	15.7	13.2	14.0	14.0	14.8	15.7
	6H	14.3	15.0	15.1	15.8	16.8	14.3	15.0	15.1	15.8	16.8
	8H	14.8	15.5	15.6	16.3	17.3	14.8	15.5	15.6	16.3	17.3
	12H	15.3	15.9	16.1	16.8	17.8	15.3	15.9	16.1	16.8	17.8
8H	4H	13.6	14.2	14.4	15.0	16.0	13.6	14.2	14.4	15.0	16.0
	6H	14.9	15.4	15.7	16.3	17.3	14.9	15.4	15.7	16.3	17.3
	8H	15.5	16.0	16.3	16.9	17.9	15.5	16.0	16.3	16.9	17.9
	12H	16.2	16.6	17.0	17.5	18.5	16.2	16.6	17.0	17.5	18.5
12H	4H	13.6	14.2	14.4	15.1	16.1	13.6	14.2	14.4	15.1	16.1
	6H	15.0	15.5	15.8	16.3	17.4	15.0	15.5	15.8	16.3	17.4
	8H	15.7	16.1	16.5	17.0	18.0	15.7	16.1	16.5	17.0	18.0

(END OF REPORT)