

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: P1245449

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-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

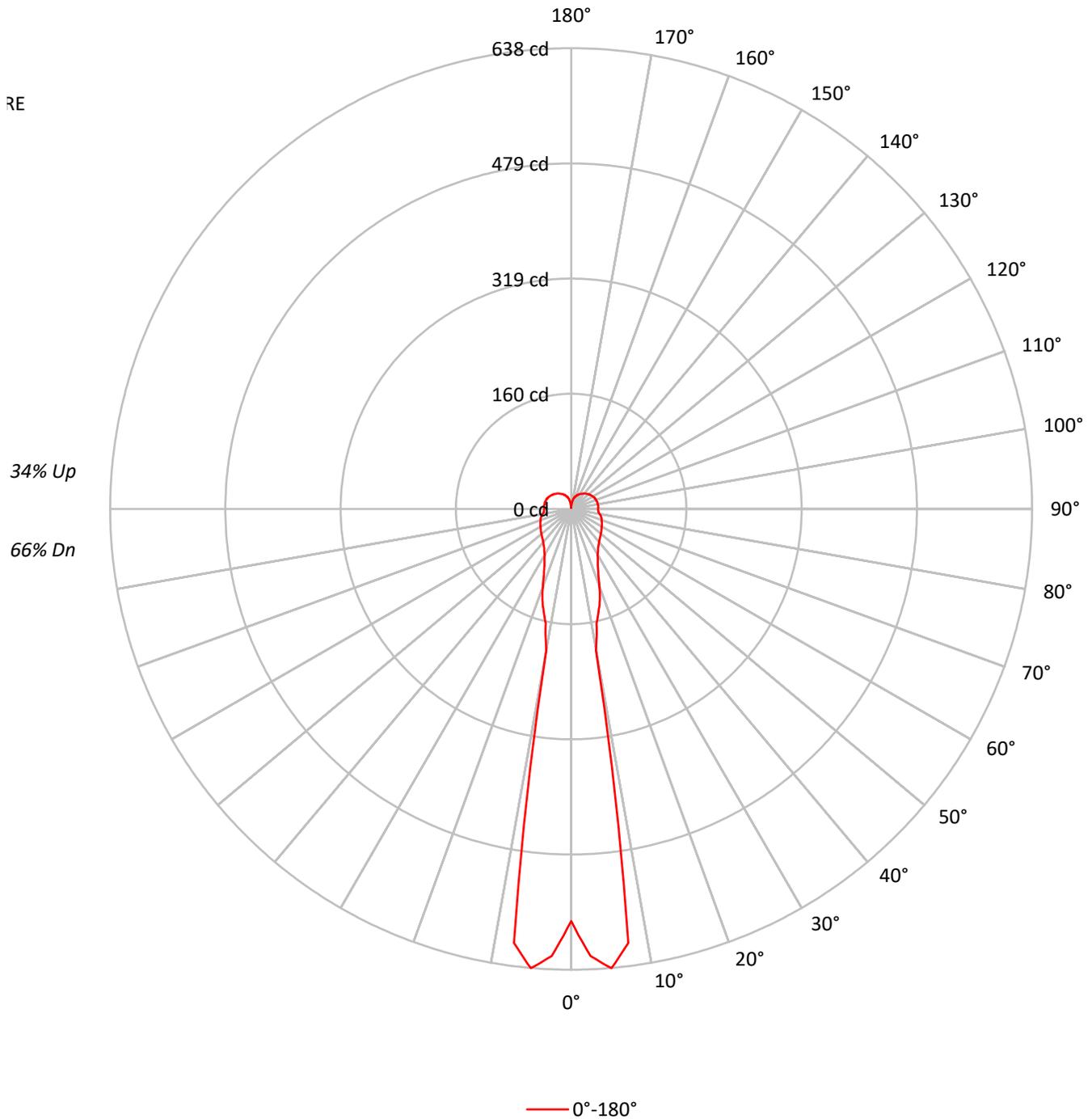
Lumens per Lamp: N/A
Luminaire Lumens: 596.8 lumens
Efficiency: N/A
Efficacy: 36.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 16.2
Input Voltage (V): NR
Input Current (A_{in}): 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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66
1	99	94	89	84	93	88	84	80	78	74	71	68	65	63	59	57	55	51
2	90	81	74	68	84	77	70	65	68	63	58	59	55	52	52	49	46	42
3	82	72	64	57	77	68	60	55	60	54	49	53	48	44	46	43	40	36
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35	32
5	70	58	49	43	66	55	47	41	49	43	38	44	38	34	38	34	31	28
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	28	26
7	61	48	40	35	57	46	39	33	42	35	31	37	32	28	33	29	26	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	30	26	23	21
10	51	39	32	27	48	37	31	26	34	28	24	31	26	23	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27957
5°	25941
10°	6949
15°	4531
20°	3186
25°	2227
30°	1736
35°	1452
40°	1273
45°	1151
50°	1056
55°	984
60°	929
65°	884
70°	847
75°	815
80°	770
85°	747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1151 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	8.4
10°-20°	41.3	6.9
20°-30°	41.0	6.9
30°-40°	41.2	6.9
40°-50°	43.7	7.3
50°-60°	45.9	7.7
60°-70°	46.5	7.8
70°-80°	45.4	7.6
80°-90°	41.5	6.9
90°-100°	41.0	6.9
100°-110°	39.3	6.6
110°-120°	35.5	6.0
120°-130°	29.8	5.0
130°-140°	23.1	3.9
140°-150°	16.2	2.7
150°-160°	9.9	1.7
160°-170°	4.6	0.8
170°-180°	0.8	0.1
0°-30°	132.5	22.2
0°-40°	173.7	29.1
0°-60°	263.3	44.1
0°-90°	396.7	66.5
90°-120°	115.8	19.4
90°-150°	184.9	31.0
90°-180°	200.0	33.5
0°-180°	596.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	571	
5°	638	50
15°	147	41
25°	87	41
35°	65	41
45°	56	44
55°	51	46
65°	47	47
75°	43	45
85°	38	31
90°	37	20
95°	38	31
105°	37	39
115°	36	36
125°	33	30
135°	30	23
145°	26	16
155°	21	10
165°	16	5
175°	6	1
180°	2	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	570.7
2.5°	619.6
5°	638.3
7.5°	606.0
10°	198.8
12.5°	162.5
15°	146.8
17.5°	132.2
20°	114.5
22.5°	98.4
25°	87.3
27.5°	79.7
30°	73.2
32.5°	69.1
35°	65.1
37.5°	62.6
40°	60.0
42.5°	58.0
45°	56.5
47.5°	55.0
50°	53.5
52.5°	52.5
55°	51.0
57.5°	50.0
60°	48.9
62.5°	47.9
65°	46.9
67.5°	45.9
70°	44.9
72.5°	44.4
75°	42.9
77.5°	41.9
80°	39.9
82.5°	38.3
85°	37.8
87.5°	37.3
90°	37.3
92.5°	37.3
95°	37.8
97.5°	37.8
100°	37.3
102.5°	37.3
105°	37.3
107.5°	36.8
110°	36.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	36.3
115°	35.8
117.5°	35.3
120°	34.8
122.5°	33.8
125°	33.3
127.5°	32.3
130°	31.8
132.5°	30.8
135°	29.8
137.5°	28.8
140°	27.8
142.5°	26.7
145°	25.7
147.5°	24.7
150°	23.7
152.5°	22.7
155°	21.2
157.5°	20.2
160°	18.7
162.5°	17.7
165°	16.1
167.5°	14.1
170°	11.6
172.5°	9.1
175°	6.1
177.5°	3.0
180°	1.5



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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	8.0	9.1	8.8	9.9	10.9	8.0	9.1	8.8	9.9	10.9
	3H	10.4	11.4	11.2	12.2	13.3	10.4	11.4	11.2	12.2	13.3
	4H	11.6	12.5	12.4	13.4	14.4	11.6	12.5	12.4	13.4	14.4
	6H	12.7	13.6	13.5	14.4	15.5	12.7	13.6	13.5	14.4	15.5
	8H	13.2	14.0	14.0	14.9	16.0	13.2	14.0	14.0	14.9	16.0
	12H	13.7	14.5	14.5	15.4	16.5	13.7	14.5	14.5	15.4	16.5
4H	2H	8.6	9.5	9.4	10.4	11.4	8.6	9.5	9.4	10.4	11.4
	3H	11.3	12.1	12.1	12.9	14.0	11.3	12.1	12.1	12.9	14.0
	4H	12.6	13.3	13.4	14.2	15.3	12.6	13.3	13.4	14.2	15.3
	6H	13.9	14.5	14.7	15.4	16.5	13.9	14.5	14.7	15.4	16.5
	8H	14.5	15.1	15.3	16.0	17.1	14.5	15.1	15.3	16.0	17.1
	12H	15.0	15.6	15.9	16.5	17.6	15.0	15.6	15.9	16.5	17.6
8H	4H	13.0	13.6	13.9	14.5	15.6	13.0	13.6	13.9	14.5	15.6
	6H	14.5	15.0	15.4	15.9	17.0	14.5	15.0	15.4	15.9	17.0
	8H	15.2	15.7	16.1	16.6	17.7	15.2	15.7	16.1	16.6	17.7
	12H	16.0	16.4	16.9	17.3	18.5	16.0	16.4	16.9	17.3	18.5
12H	4H	13.1	13.6	14.0	14.6	15.7	13.1	13.6	14.0	14.6	15.7
	6H	14.6	15.1	15.5	16.0	17.2	14.6	15.1	15.5	16.0	17.2
	8H	15.4	15.8	16.3	16.8	17.9	15.4	15.8	16.3	16.8	17.9

(END OF REPORT)