

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: P1245445

Luminaire Tested: PRLX-UNA-S-927-02L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245445
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-927-02L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 1
Light Source: -
Ballast/Driver: -

Summary

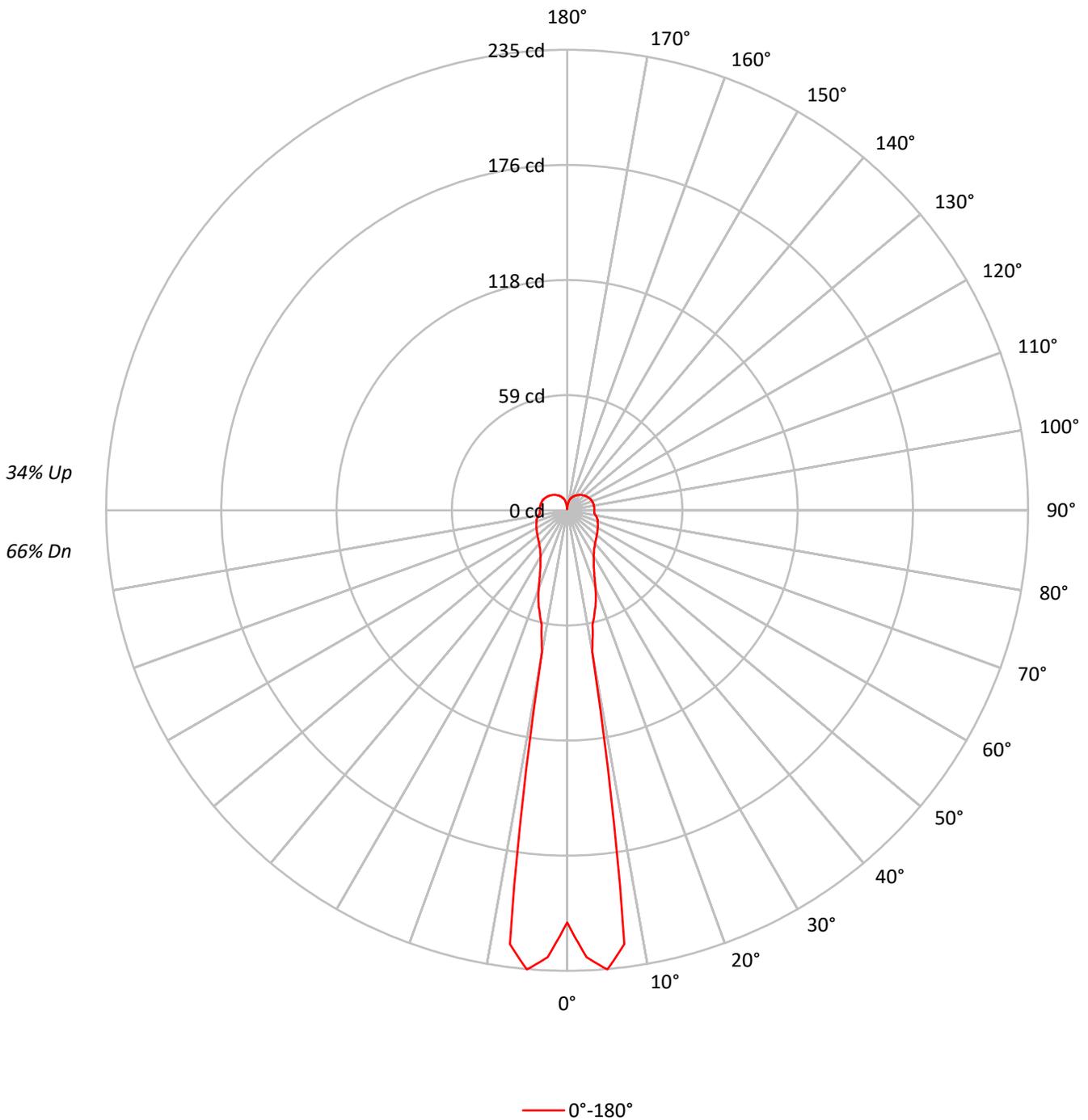
Lumens per Lamp: N/A
Luminaire Lumens: 220.0 lumens
Efficiency: N/A
Efficacy: 34.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 6.3
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°	10302
5°	9559
10°	2562
15°	1670
20°	1174
25°	821
30°	640
35°	535
40°	469
45°	424
50°	389
55°	363
60°	342
65°	326
70°	311
75°	300
80°	284
85°	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	8.4
10°-20°	15.2	6.9
20°-30°	15.1	6.9
30°-40°	15.2	6.9
40°-50°	16.1	7.3
50°-60°	16.9	7.7
60°-70°	17.2	7.8
70°-80°	16.7	7.6
80°-90°	15.3	6.9
90°-100°	15.1	6.9
100°-110°	14.5	6.6
110°-120°	13.1	6.0
120°-130°	11.0	5.0
130°-140°	8.5	3.9
140°-150°	6.0	2.7
150°-160°	3.7	1.7
160°-170°	1.7	0.8
170°-180°	0.3	0.1
0°-30°	48.9	22.2
0°-40°	64.0	29.1
0°-60°	97.1	44.1
0°-90°	146.2	66.4
90°-120°	42.7	19.4
90°-150°	68.2	31.0
90°-180°	74.0	33.6
0°-180°	220.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	210	
5°	235	18
15°	54	15
25°	32	15
35°	24	15
45°	21	16
55°	19	17
65°	17	17
75°	16	17
85°	14	12
90°	14	8
95°	14	11
105°	14	15
115°	13	13
125°	12	11
135°	11	9
145°	10	6
155°	8	4
165°	6	2
175°	2	0
180°	1	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	210.3
2.5°	228.3
5°	235.2
7.5°	223.3
10°	73.3
12.5°	59.9
15°	54.1
17.5°	48.7
20°	42.2
22.5°	36.3
25°	32.2
27.5°	29.4
30°	27.0
32.5°	25.5
35°	24.0
37.5°	23.1
40°	22.1
42.5°	21.4
45°	20.8
47.5°	20.3
50°	19.7
52.5°	19.3
55°	18.8
57.5°	18.4
60°	18.0
62.5°	17.7
65°	17.3
67.5°	16.9
70°	16.5
72.5°	16.4
75°	15.8
77.5°	15.4
80°	14.7
82.5°	14.1
85°	13.9
87.5°	13.8
90°	13.8
92.5°	13.8
95°	13.9
97.5°	13.9
100°	13.8
102.5°	13.8
105°	13.8
107.5°	13.6
110°	13.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	13.4
115°	13.2
117.5°	13.0
120°	12.8
122.5°	12.5
125°	12.3
127.5°	11.9
130°	11.7
132.5°	11.3
135°	11.0
137.5°	10.6
140°	10.2
142.5°	9.9
145°	9.5
147.5°	9.1
150°	8.7
152.5°	8.4
155°	7.8
157.5°	7.4
160°	6.9
162.5°	6.5
165°	6.0
167.5°	5.2
170°	4.3
172.5°	3.3
175°	2.2
177.5°	1.1
180°	0.6



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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	4.5	5.6	5.3	6.4	7.4	4.5	5.6	5.3	6.4	7.4
	3H	6.9	7.9	7.7	8.8	9.8	6.9	7.9	7.7	8.8	9.8
	4H	8.1	9.0	8.9	9.9	10.9	8.1	9.0	8.9	9.9	10.9
	6H	9.2	10.1	10.1	10.9	12.0	9.2	10.1	10.1	10.9	12.0
	8H	9.7	10.6	10.6	11.4	12.5	9.7	10.6	10.6	11.4	12.5
	12H	10.2	11.0	11.1	11.9	13.0	10.2	11.0	11.1	11.9	13.0
4H	2H	5.1	6.1	5.9	6.9	8.0	5.1	6.1	5.9	6.9	8.0
	3H	7.8	8.6	8.6	9.5	10.5	7.8	8.6	8.6	9.5	10.5
	4H	9.1	9.9	9.9	10.7	11.8	9.1	9.9	9.9	10.7	11.8
	6H	10.4	11.0	11.2	11.9	13.0	10.4	11.0	11.2	11.9	13.0
	8H	11.0	11.6	11.8	12.5	13.6	11.0	11.6	11.8	12.5	13.6
	12H	11.6	12.1	12.5	13.0	14.2	11.6	12.1	12.5	13.0	14.2
8H	4H	9.5	10.2	10.4	11.0	12.1	9.5	10.2	10.4	11.0	12.1
	6H	11.0	11.5	11.9	12.5	13.6	11.0	11.5	11.9	12.5	13.6
	8H	11.7	12.2	12.6	13.1	14.2	11.7	12.2	12.6	13.1	14.2
	12H	12.5	12.9	13.4	13.8	15.0	12.5	12.9	13.4	13.8	15.0
12H	4H	9.6	10.2	10.5	11.1	12.2	9.6	10.2	10.5	11.1	12.2
	6H	11.1	11.6	12.0	12.5	13.7	11.1	11.6	12.0	12.5	13.7
	8H	11.9	12.4	12.8	13.3	14.5	11.9	12.4	12.8	13.3	14.5

(END OF REPORT)