

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: P1245493

Luminaire Tested: PRLX-UNA-S-940-05L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245493
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-940-05L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

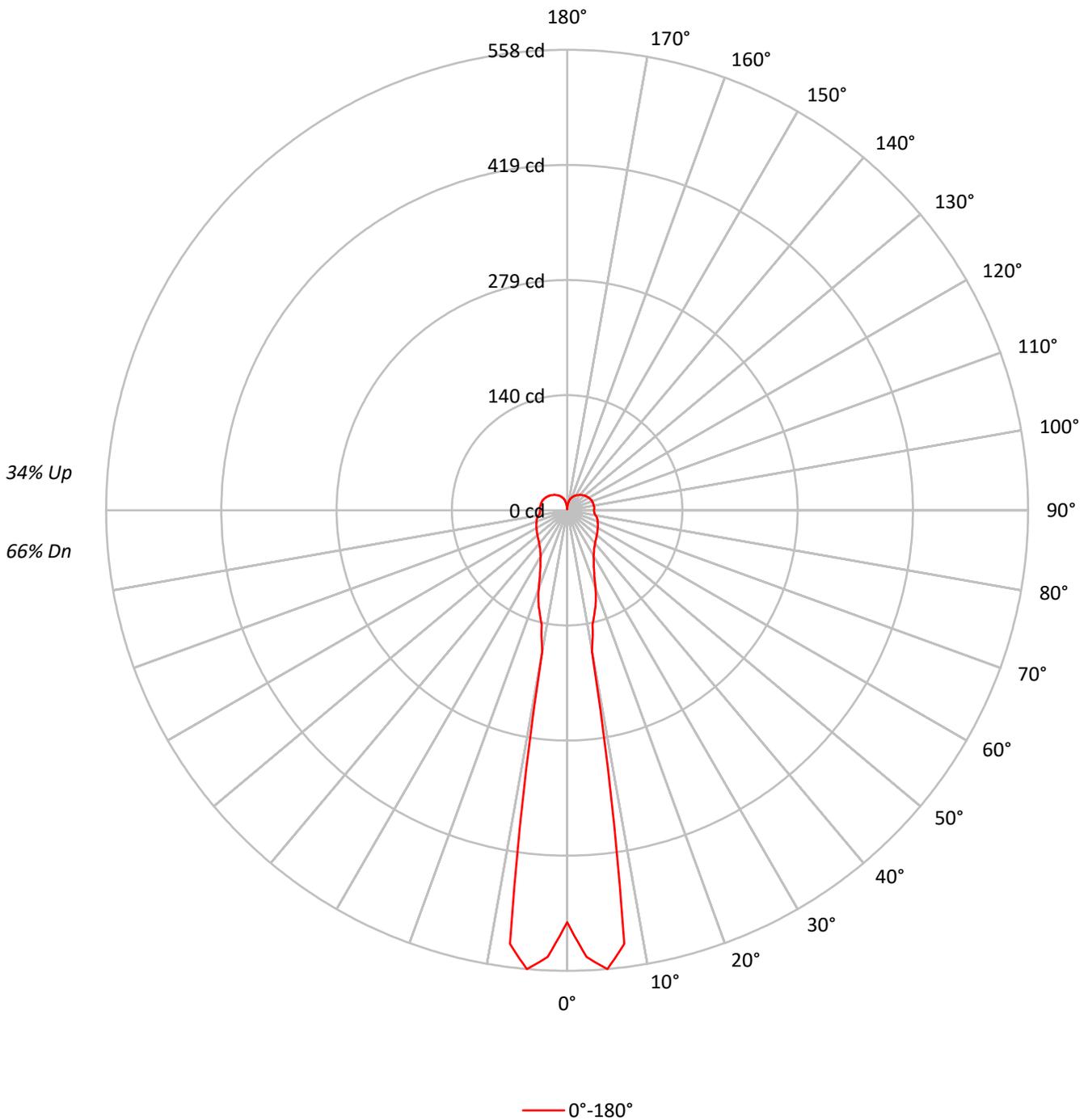
Lumens per Lamp: N/A
Luminaire Lumens: 521.9 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 11.1
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°	24445
5°	22682
10°	6075
15°	3963
20°	2788
25°	1946
30°	1518
35°	1269
40°	1114
45°	1007
50°	924
55°	860
60°	813
65°	773
70°	741
75°	713
80°	674
85°	654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	8.4
10°-20°	36.1	6.9
20°-30°	35.9	6.9
30°-40°	36.0	6.9
40°-50°	38.2	7.3
50°-60°	40.1	7.7
60°-70°	40.7	7.8
70°-80°	39.7	7.6
80°-90°	36.3	6.9
90°-100°	35.8	6.9
100°-110°	34.3	6.6
110°-120°	31.1	6.0
120°-130°	26.0	5.0
130°-140°	20.2	3.9
140°-150°	14.2	2.7
150°-160°	8.7	1.7
160°-170°	4.0	0.8
170°-180°	0.7	0.1
0°-30°	115.9	22.2
0°-40°	151.9	29.1
0°-60°	230.3	44.1
0°-90°	346.9	66.5
90°-120°	101.3	19.4
90°-150°	161.7	31.0
90°-180°	175.0	33.5
0°-180°	521.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	499	
5°	558	44
15°	128	36
25°	76	36
35°	57	36
45°	49	38
55°	45	40
65°	41	41
75°	38	40
85°	33	27
90°	33	18
95°	33	27
105°	33	34
115°	31	31
125°	29	26
135°	26	20
145°	22	14
155°	18	9
165°	14	4
175°	5	1
180°	1	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	499.0
2.5°	541.8
5°	558.1
7.5°	529.9
10°	173.8
12.5°	142.1
15°	128.4
17.5°	115.6
20°	100.2
22.5°	86.0
25°	76.3
27.5°	69.7
30°	64.0
32.5°	60.4
35°	56.9
37.5°	54.7
40°	52.5
42.5°	50.7
45°	49.4
47.5°	48.1
50°	46.8
52.5°	45.9
55°	44.6
57.5°	43.7
60°	42.8
62.5°	41.9
65°	41.0
67.5°	40.1
70°	39.3
72.5°	38.8
75°	37.5
77.5°	36.6
80°	34.9
82.5°	33.5
85°	33.1
87.5°	32.6
90°	32.6
92.5°	32.6
95°	33.1
97.5°	33.1
100°	32.6
102.5°	32.6
105°	32.6
107.5°	32.2
110°	32.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	31.8
115°	31.3
117.5°	30.9
120°	30.4
122.5°	29.6
125°	29.1
127.5°	28.2
130°	27.8
132.5°	26.9
135°	26.0
137.5°	25.1
140°	24.3
142.5°	23.4
145°	22.5
147.5°	21.6
150°	20.7
152.5°	19.9
155°	18.5
157.5°	17.6
160°	16.3
162.5°	15.4
165°	14.1
167.5°	12.4
170°	10.1
172.5°	7.9
175°	5.3
177.5°	2.6
180°	1.3



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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	7.5	8.6	8.3	9.4	10.4	7.5	8.6	8.3	9.4	10.4
	3H	9.9	10.9	10.8	11.8	12.8	9.9	10.9	10.8	11.8	12.8
	4H	11.1	12.1	11.9	12.9	13.9	11.1	12.1	11.9	12.9	13.9
	6H	12.2	13.1	13.1	14.0	15.0	12.2	13.1	13.1	14.0	15.0
	8H	12.7	13.6	13.6	14.4	15.5	12.7	13.6	13.6	14.4	15.5
	12H	13.2	14.0	14.1	14.9	16.0	13.2	14.0	14.1	14.9	16.0
4H	2H	8.1	9.1	9.0	9.9	11.0	8.1	9.1	9.0	9.9	11.0
	3H	10.8	11.6	11.6	12.5	13.5	10.8	11.6	11.6	12.5	13.5
	4H	12.1	12.9	13.0	13.7	14.8	12.1	12.9	13.0	13.7	14.8
	6H	13.4	14.1	14.3	14.9	16.0	13.4	14.1	14.3	14.9	16.0
	8H	14.0	14.6	14.8	15.5	16.6	14.0	14.6	14.8	15.5	16.6
	12H	14.6	15.2	15.5	16.1	17.2	14.6	15.2	15.5	16.1	17.2
8H	4H	12.5	13.2	13.4	14.0	15.2	12.5	13.2	13.4	14.0	15.2
	6H	14.0	14.5	14.9	15.5	16.6	14.0	14.5	14.9	15.5	16.6
	8H	14.7	15.2	15.6	16.1	17.3	14.7	15.2	15.6	16.1	17.3
	12H	15.5	15.9	16.4	16.8	18.0	15.5	15.9	16.4	16.8	18.0
12H	4H	12.6	13.2	13.5	14.1	15.2	12.6	13.2	13.5	14.1	15.2
	6H	14.1	14.6	15.0	15.5	16.7	14.1	14.6	15.0	15.5	16.7
	8H	14.9	15.4	15.9	16.3	17.5	14.9	15.4	15.9	16.3	17.5

(END OF REPORT)