

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: P1245440

Luminaire Tested: PRLX-UNA-M-940-07L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-M-940-07L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, NATURAL LINES SHADE TEXT LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

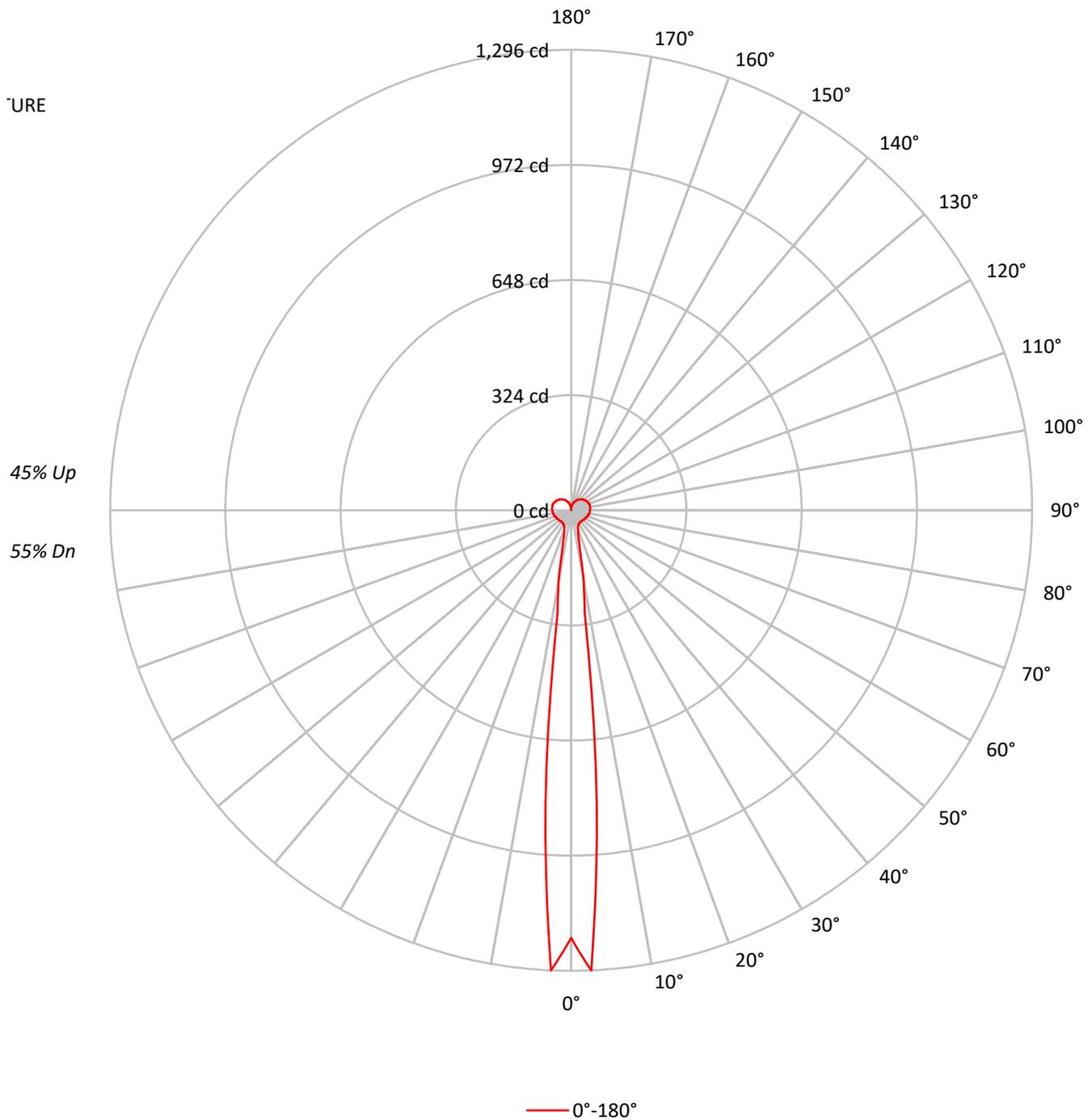
Lumens per Lamp: N/A
Luminaire Lumens: 645.1 lumens
Efficiency: N/A
Efficacy: 22.3 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 0.46' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 28.9
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	95	90	84	79	88	83	78	74	70	67	64	59	56	54	48	46	45	39
2	86	77	70	63	79	71	65	59	61	56	51	51	47	43	42	39	36	31
3	78	68	59	53	72	63	55	49	53	48	43	45	40	36	37	33	30	26
4	72	60	51	45	66	56	48	42	48	42	37	40	35	32	33	30	27	23
5	67	54	45	39	61	50	43	37	43	37	32	37	32	28	31	27	24	21
6	62	49	41	34	57	46	38	33	40	33	29	34	29	25	28	25	22	19
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	27	23	20	17
8	54	41	34	28	50	39	32	27	34	28	24	29	25	21	25	21	19	16
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61656
5°	31207
10°	5993
15°	2012
20°	1202
25°	918
30°	756
35°	682
40°	622
45°	599
50°	581
55°	570
60°	574
65°	572
70°	584
75°	602
80°	612
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	8.3
10°-20°	25.7	4.0
20°-30°	22.2	3.4
30°-40°	26.7	4.1
40°-50°	33.0	5.1
50°-60°	40.0	6.2
60°-70°	46.8	7.3
70°-80°	53.1	8.2
80°-90°	56.9	8.8
90°-100°	58.4	9.1
100°-110°	56.9	8.8
110°-120°	51.7	8.0
120°-130°	43.5	6.7
130°-140°	33.6	5.2
140°-150°	23.2	3.6
150°-160°	13.5	2.1
160°-170°	5.7	0.9
170°-180°	0.8	0.1
0°-30°	101.3	15.7
0°-40°	128.0	19.8
0°-60°	201.0	31.2
0°-90°	357.8	55.5
90°-120°	167.0	25.9
90°-150°	267.3	41.4
90°-180°	287.0	44.5
0°-180°	645.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1203	
5°	829	53
15°	80	26
25°	48	22
35°	43	27
45°	43	33
55°	44	40
65°	47	47
75°	50	53
85°	52	43
90°	53	29
95°	54	44
105°	54	57
115°	52	52
125°	49	43
135°	44	34
145°	37	23
155°	29	13
165°	20	6
175°	6	1
180°	1	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1203.1
2.5°	1296.4
5°	828.6
7.5°	289.0
10°	200.1
12.5°	114.6
15°	80.4
17.5°	65.0
20°	55.6
22.5°	50.5
25°	47.9
27.5°	45.3
30°	43.6
32.5°	42.8
35°	42.8
37.5°	41.9
40°	41.9
42.5°	41.9
45°	42.8
47.5°	42.8
50°	43.6
52.5°	43.6
55°	44.5
57.5°	45.3
60°	46.2
62.5°	46.2
65°	47.0
67.5°	47.9
70°	48.7
72.5°	49.6
75°	50.5
77.5°	50.5
80°	51.3
82.5°	52.2
85°	52.2
87.5°	52.2
90°	53.0
92.5°	53.0
95°	53.9
97.5°	53.9
100°	53.9
102.5°	53.9
105°	53.9
107.5°	53.9
110°	53.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	53.0
115°	52.2
117.5°	51.3
120°	50.5
122.5°	49.6
125°	48.7
127.5°	47.0
130°	46.2
132.5°	44.5
135°	43.6
137.5°	41.9
140°	40.2
142.5°	38.5
145°	36.8
147.5°	35.1
150°	33.3
152.5°	30.8
155°	29.1
157.5°	26.5
160°	24.8
162.5°	22.2
165°	19.7
167.5°	17.1
170°	14.5
172.5°	10.3
175°	6.0
177.5°	2.6
180°	0.9



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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	5.2	6.2	6.1	7.1	8.3	5.2	6.2	6.1	7.1	8.3
	3H	8.2	9.1	9.1	10.1	11.3	8.2	9.1	9.1	10.1	11.3
	4H	9.7	10.6	10.6	11.5	12.7	9.7	10.6	10.6	11.5	12.7
	6H	11.2	12.0	12.1	12.9	14.2	11.2	12.0	12.1	12.9	14.2
	8H	11.9	12.7	12.8	13.6	14.9	11.9	12.7	12.8	13.6	14.9
	12H	12.6	13.3	13.5	14.3	15.5	12.6	13.3	13.5	14.3	15.5
4H	2H	6.0	6.8	6.9	7.8	9.0	6.0	6.8	6.9	7.8	9.0
	3H	9.2	9.9	10.1	10.9	12.1	9.2	9.9	10.1	10.9	12.1
	4H	10.8	11.5	11.7	12.5	13.7	10.8	11.5	11.7	12.5	13.7
	6H	12.4	13.1	13.4	14.1	15.3	12.4	13.1	13.4	14.1	15.3
	8H	13.3	13.9	14.2	14.8	16.1	13.3	13.9	14.2	14.8	16.1
	12H	14.1	14.6	15.0	15.6	16.9	14.1	14.6	15.0	15.6	16.9
8H	4H	11.3	11.9	12.3	12.9	14.2	11.3	11.9	12.3	12.9	14.2
	6H	13.2	13.7	14.1	14.7	16.0	13.2	13.7	14.1	14.7	16.0
	8H	14.1	14.6	15.1	15.6	16.9	14.1	14.6	15.1	15.6	16.9
	12H	15.1	15.5	16.1	16.5	17.8	15.1	15.5	16.1	16.5	17.8
12H	4H	11.4	12.0	12.4	13.0	14.3	11.4	12.0	12.4	13.0	14.3
	6H	13.4	13.8	14.3	14.8	16.1	13.4	13.8	14.3	14.8	16.1
	8H	14.4	14.8	15.4	15.8	17.1	14.4	14.8	15.4	15.8	17.1

(END OF REPORT)