

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: P1245378

Luminaire Tested: PRLX-UNA-L-940-23L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-L-940-23L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 7
Light Source: -
Ballast/Driver: -

Summary

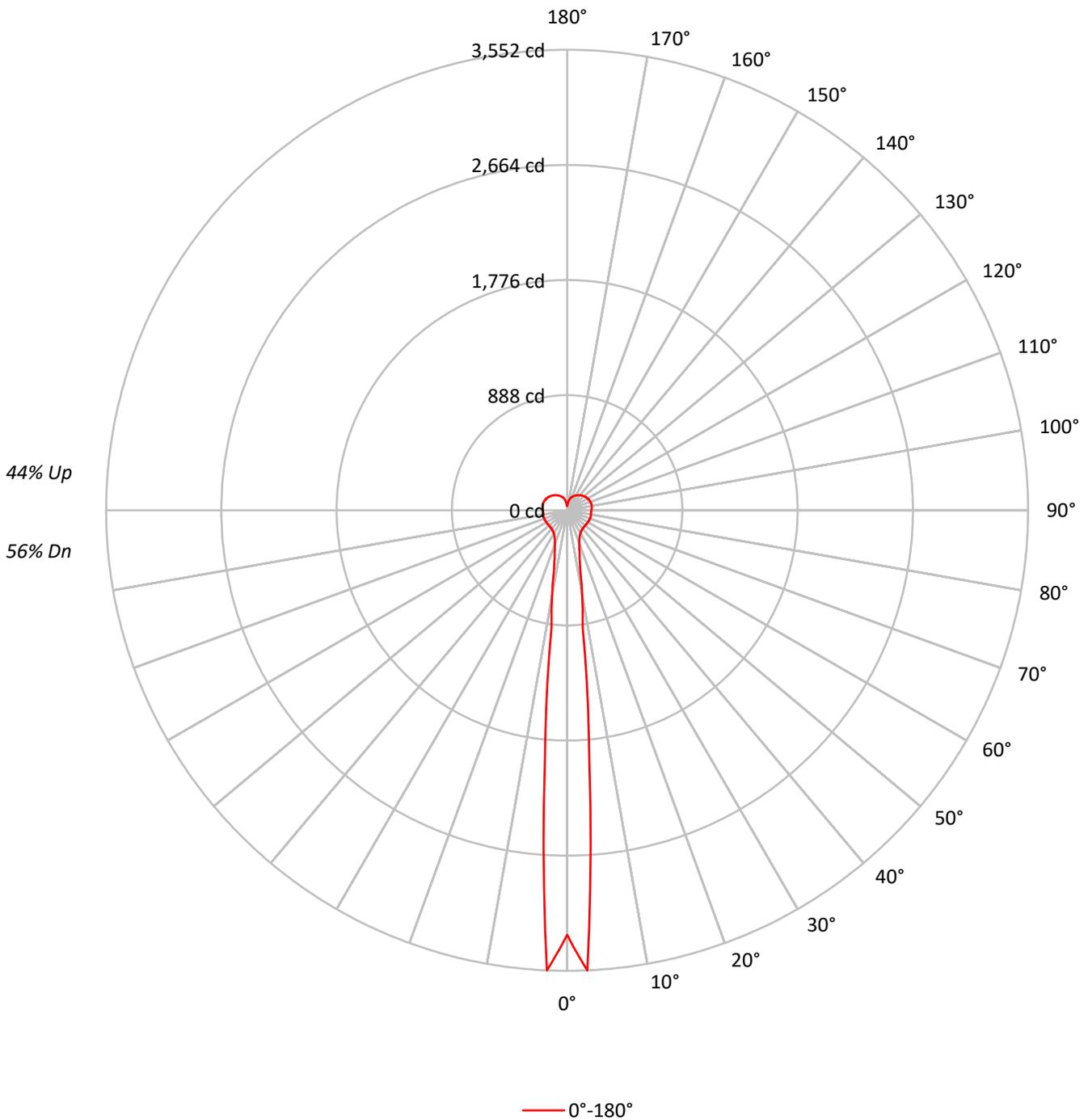
Lumens per Lamp: N/A
Luminaire Lumens: 2434.0 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 58.2
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	96	90	85	80	88	83	79	75	71	68	64	60	57	55	49	47	46	40
2	86	77	70	63	80	72	65	59	61	56	51	51	47	44	42	39	37	32
3	79	68	59	52	72	63	55	49	54	48	43	45	40	37	37	34	31	27
4	72	60	51	44	66	56	48	42	48	41	37	40	35	31	33	30	27	23
5	66	54	45	38	61	50	42	36	43	37	32	36	31	28	30	27	23	20
6	61	48	40	34	57	45	37	32	39	33	28	33	28	25	28	24	21	18
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17
8	53	41	33	27	49	38	31	26	33	27	23	29	24	20	24	21	18	15
9	50	37	30	25	46	35	28	23	31	25	21	27	22	19	23	19	16	14
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103565
5°	48540
10°	13644
15°	6411
20°	4224
25°	3137
30°	2581
35°	2256
40°	2035
45°	1910
50°	1821
55°	1773
60°	1740
65°	1732
70°	1728
75°	1736
80°	1717
85°	1743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	6.0
10°-20°	109.4	4.5
20°-30°	106.6	4.4
30°-40°	121.4	5.0
40°-50°	141.8	5.8
50°-60°	164.4	6.8
60°-70°	184.7	7.6
70°-80°	198.4	8.2
80°-90°	202.6	8.3
90°-100°	207.8	8.5
100°-110°	203.4	8.4
110°-120°	185.8	7.6
120°-130°	158.4	6.5
130°-140°	124.9	5.1
140°-150°	89.3	3.7
150°-160°	56.2	2.3
160°-170°	27.3	1.1
170°-180°	5.6	0.2
0°-30°	361.9	14.9
0°-40°	483.3	19.9
0°-60°	789.5	32.4
0°-90°	1375.2	56.5
90°-120°	597.0	24.5
90°-150°	969.7	39.8
90°-180°	1059.0	43.5
0°-180°	2434.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3274	
5°	1968	146
15°	368	109
25°	228	107
35°	193	121
45°	183	142
55°	183	164
65°	186	185
75°	188	198
85°	185	151
90°	187	103
95°	191	156
105°	193	203
115°	187	186
125°	176	158
135°	161	125
145°	142	89
155°	121	56
165°	96	27
175°	50	6
180°	33	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3273.6
2.5°	3552.4
5°	1967.9
7.5°	912.6
10°	670.8
12.5°	461.7
15°	368.1
17.5°	313.6
20°	275.5
22.5°	247.2
25°	227.6
27.5°	214.5
30°	204.7
32.5°	198.2
35°	192.8
37.5°	188.4
40°	185.1
42.5°	184.0
45°	183.0
47.5°	181.9
50°	181.9
52.5°	183.0
55°	183.0
57.5°	184.0
60°	184.0
62.5°	185.1
65°	186.2
67.5°	187.3
70°	187.3
72.5°	188.4
75°	188.4
77.5°	187.3
80°	185.1
82.5°	185.1
85°	185.1
87.5°	186.2
90°	187.3
92.5°	189.5
95°	190.6
97.5°	191.7
100°	192.8
102.5°	192.8
105°	192.8
107.5°	191.7
110°	190.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	189.5
115°	187.3
117.5°	185.1
120°	183.0
122.5°	179.7
125°	176.4
127.5°	173.2
130°	169.9
132.5°	165.5
135°	161.2
137.5°	156.8
140°	151.4
142.5°	147.0
145°	141.6
147.5°	137.2
150°	131.8
152.5°	126.3
155°	120.9
157.5°	115.4
160°	108.9
162.5°	103.5
165°	95.8
167.5°	87.1
170°	76.2
172.5°	64.3
175°	50.1
177.5°	37.0
180°	32.7



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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	9.4	10.4	10.3	11.3	12.5	9.4	10.4	10.3	11.3	12.5
	3H	12.2	13.2	13.1	14.1	15.3	12.2	13.2	13.1	14.1	15.3
	4H	13.6	14.5	14.5	15.4	16.6	13.6	14.5	14.5	15.4	16.6
	6H	15.0	15.8	15.9	16.7	17.9	15.0	15.8	15.9	16.7	17.9
	8H	15.6	16.4	16.5	17.4	18.6	15.6	16.4	16.5	17.4	18.6
	12H	16.2	17.0	17.2	17.9	19.2	16.2	17.0	17.2	17.9	19.2
4H	2H	10.1	11.0	11.0	11.9	13.1	10.1	11.0	11.0	11.9	13.1
	3H	13.2	13.9	14.1	14.9	16.1	13.2	13.9	14.1	14.9	16.1
	4H	14.7	15.4	15.6	16.4	17.6	14.7	15.4	15.6	16.4	17.6
	6H	16.2	16.8	17.1	17.8	19.0	16.2	16.8	17.1	17.8	19.0
	8H	16.9	17.5	17.9	18.5	19.8	16.9	17.5	17.9	18.5	19.8
	12H	17.7	18.2	18.6	19.2	20.5	17.7	18.2	18.6	19.2	20.5
8H	4H	15.2	15.8	16.1	16.8	18.0	15.2	15.8	16.1	16.8	18.0
	6H	16.9	17.4	17.9	18.4	19.7	16.9	17.4	17.9	18.4	19.7
	8H	17.8	18.2	18.7	19.2	20.5	17.8	18.2	18.7	19.2	20.5
	12H	18.7	19.1	19.7	20.1	21.4	18.7	19.1	19.7	20.1	21.4
12H	4H	15.3	15.8	16.2	16.8	18.1	15.3	15.8	16.2	16.8	18.1
	6H	17.1	17.5	18.0	18.5	19.8	17.1	17.5	18.0	18.5	19.8
	8H	18.0	18.4	19.0	19.4	20.7	18.0	18.4	19.0	19.4	20.7

(END OF REPORT)