

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: P1245379

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245379
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-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 7
Light Source: -
Ballast/Driver: -

Summary

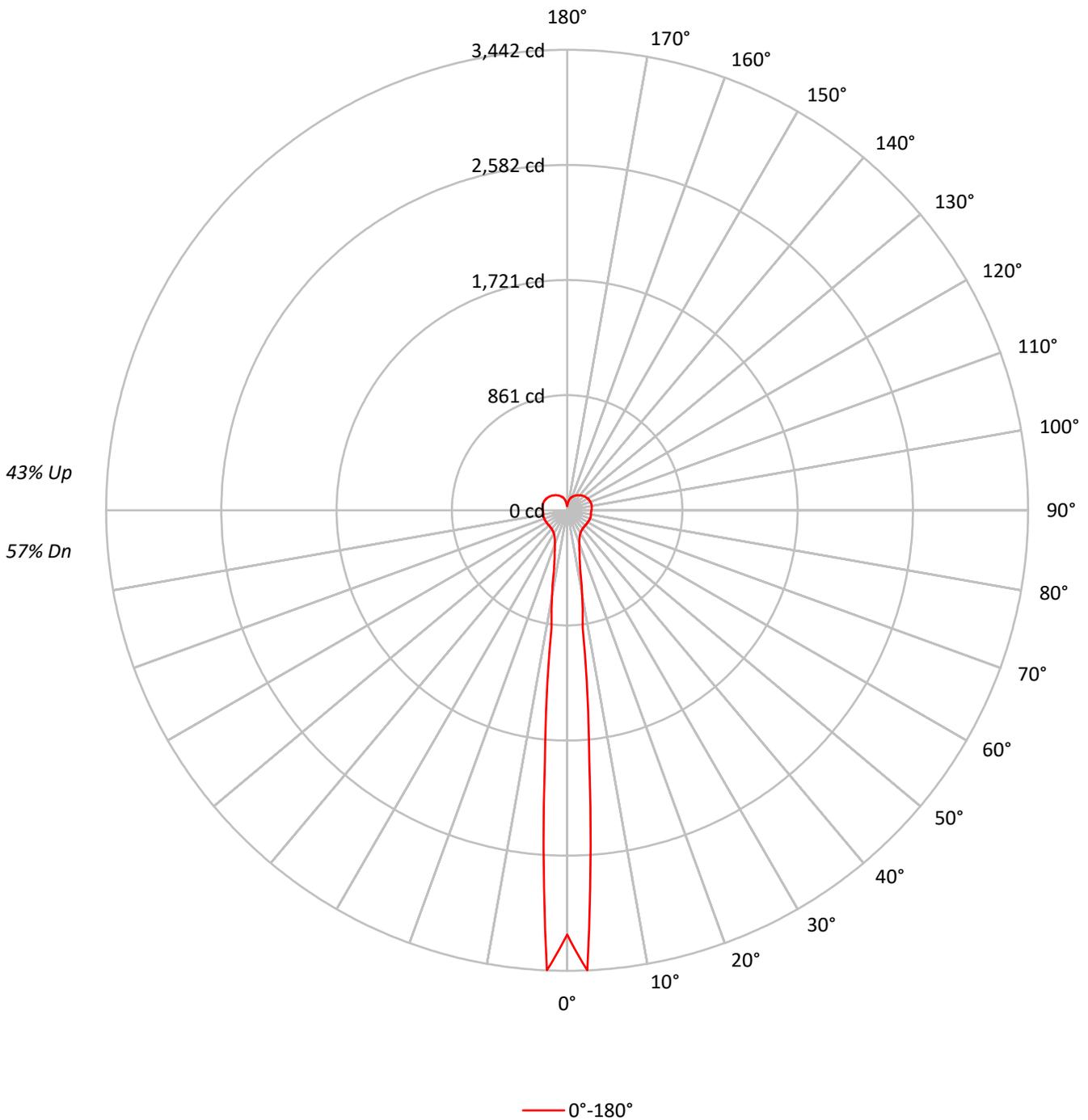
Lumens per Lamp: N/A
Luminaire Lumens: 2358.0 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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	57
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°	100332
5°	47023
10°	13219
15°	6211
20°	4092
25°	3040
30°	2500
35°	2184
40°	1972
45°	1850
50°	1764
55°	1717
60°	1686
65°	1678
70°	1674
75°	1682
80°	1665
85°	1689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1850 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	6.0
10°-20°	106.0	4.5
20°-30°	103.3	4.4
30°-40°	117.6	5.0
40°-50°	137.3	5.8
50°-60°	159.3	6.8
60°-70°	179.0	7.6
70°-80°	192.3	8.2
80°-90°	196.3	8.3
90°-100°	201.3	8.5
100°-110°	197.0	8.4
110°-120°	180.1	7.6
120°-130°	153.4	6.5
130°-140°	121.0	5.1
140°-150°	86.6	3.7
150°-160°	54.4	2.3
160°-170°	26.5	1.1
170°-180°	5.4	0.2
0°-30°	350.6	14.9
0°-40°	468.2	19.9
0°-60°	764.8	32.4
0°-90°	1332.3	56.5
90°-120°	578.3	24.5
90°-150°	939.3	39.8
90°-180°	1026.0	43.5
0°-180°	2358.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3171	
5°	1906	141
15°	357	106
25°	220	103
35°	187	118
45°	177	137
55°	177	159
65°	180	179
75°	182	192
85°	179	147
90°	182	100
95°	185	151
105°	187	197
115°	182	180
125°	171	153
135°	156	121
145°	137	87
155°	117	54
165°	93	26
175°	48	5
180°	32	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3171.4
2.5°	3441.5
5°	1906.4
7.5°	884.1
10°	649.9
12.5°	447.3
15°	356.6
17.5°	303.8
20°	266.9
22.5°	239.5
25°	220.5
27.5°	207.8
30°	198.3
32.5°	192.0
35°	186.7
37.5°	182.5
40°	179.4
42.5°	178.3
45°	177.2
47.5°	176.2
50°	176.2
52.5°	177.2
55°	177.2
57.5°	178.3
60°	178.3
62.5°	179.4
65°	180.4
67.5°	181.5
70°	181.5
72.5°	182.5
75°	182.5
77.5°	181.5
80°	179.4
82.5°	179.4
85°	179.4
87.5°	180.4
90°	181.5
92.5°	183.6
95°	184.6
97.5°	185.7
100°	186.7
102.5°	186.7
105°	186.7
107.5°	185.7
110°	184.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	183.6
115°	181.5
117.5°	179.4
120°	177.2
122.5°	174.1
125°	170.9
127.5°	167.7
130°	164.6
132.5°	160.4
135°	156.1
137.5°	151.9
140°	146.6
142.5°	142.4
145°	137.2
147.5°	132.9
150°	127.7
152.5°	122.4
155°	117.1
157.5°	111.8
160°	105.5
162.5°	100.2
165°	92.8
167.5°	84.4
170°	73.9
172.5°	62.2
175°	48.5
177.5°	35.9
180°	31.7



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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	9.3	10.3	10.2	11.2	12.4	9.3	10.3	10.2	11.2	12.4
	3H	12.1	13.1	13.0	14.0	15.2	12.1	13.1	13.0	14.0	15.2
	4H	13.5	14.4	14.4	15.3	16.5	13.5	14.4	14.4	15.3	16.5
	6H	14.9	15.7	15.8	16.6	17.8	14.9	15.7	15.8	16.6	17.8
	8H	15.5	16.3	16.4	17.2	18.5	15.5	16.3	16.4	17.2	18.5
	12H	16.1	16.9	17.1	17.8	19.1	16.1	16.9	17.1	17.8	19.1
4H	2H	10.0	10.9	10.9	11.8	13.0	10.0	10.9	10.9	11.8	13.0
	3H	13.1	13.8	14.0	14.8	16.0	13.1	13.8	14.0	14.8	16.0
	4H	14.6	15.3	15.5	16.3	17.5	14.6	15.3	15.5	16.3	17.5
	6H	16.1	16.7	17.0	17.7	18.9	16.1	16.7	17.0	17.7	18.9
	8H	16.8	17.4	17.8	18.4	19.6	16.8	17.4	17.8	18.4	19.6
	12H	17.6	18.1	18.5	19.1	20.4	17.6	18.1	18.5	19.1	20.4
8H	4H	15.1	15.7	16.0	16.6	17.9	15.1	15.7	16.0	16.6	17.9
	6H	16.8	17.3	17.8	18.3	19.6	16.8	17.3	17.8	18.3	19.6
	8H	17.7	18.1	18.6	19.1	20.4	17.7	18.1	18.6	19.1	20.4
	12H	18.6	19.0	19.6	20.0	21.3	18.6	19.0	19.6	20.0	21.3
12H	4H	15.2	15.7	16.1	16.7	18.0	15.2	15.7	16.1	16.7	18.0
	6H	17.0	17.4	17.9	18.4	19.7	17.0	17.4	17.9	18.4	19.7
	8H	17.9	18.3	18.9	19.3	20.6	17.9	18.3	18.9	19.3	20.6

(END OF REPORT)