

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: P1245372

Luminaire Tested: PRLX-UNA-L-940-16L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245372
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-940-16L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

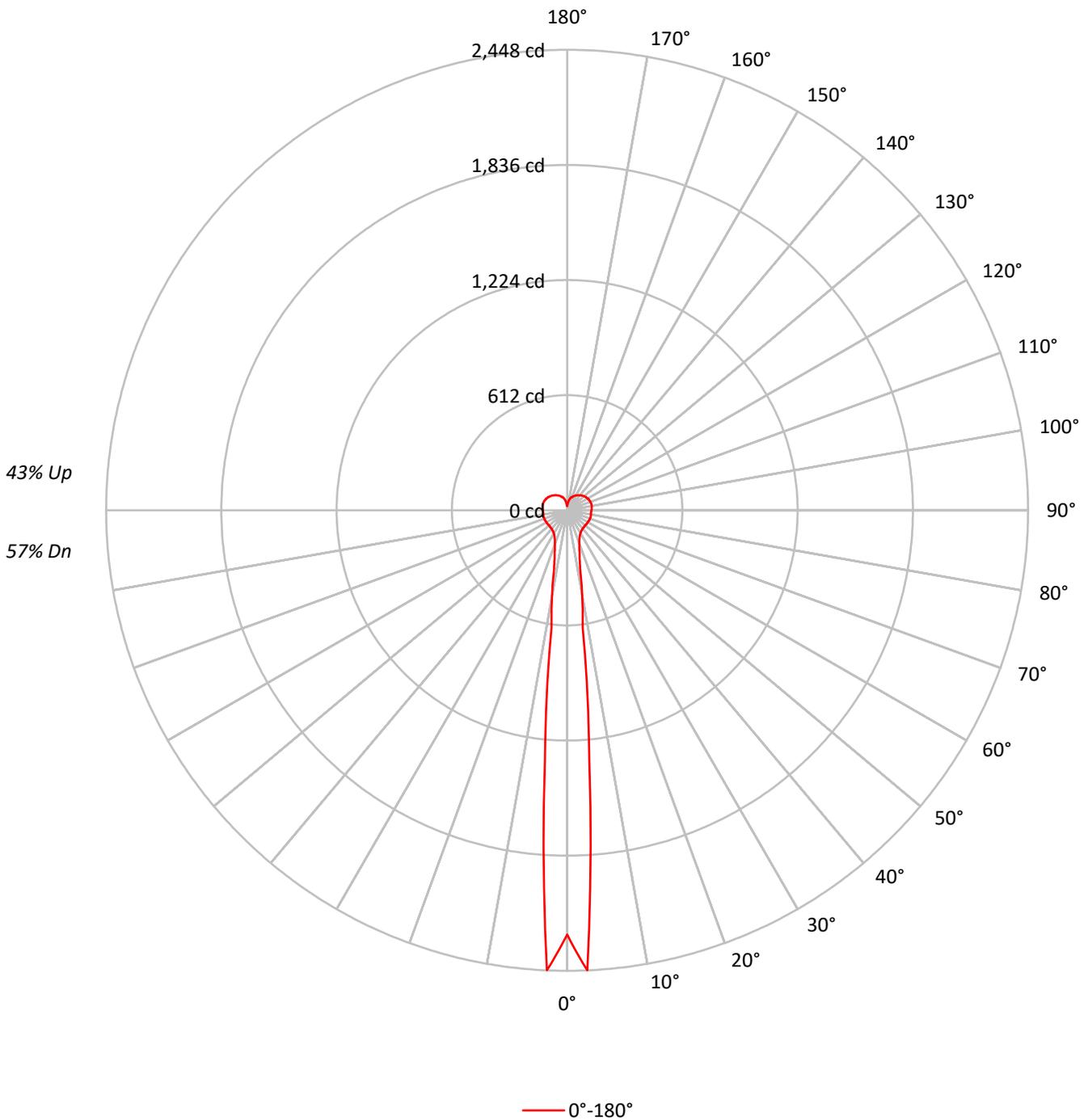
Lumens per Lamp: N/A
Luminaire Lumens: 1677.2 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 38.8
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°	71356
5°	33442
10°	9401
15°	4417
20°	2910
25°	2161
30°	1779
35°	1554
40°	1403
45°	1316
50°	1254
55°	1222
60°	1199
65°	1194
70°	1191
75°	1196
80°	1184
85°	1201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1316 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	6.0
10°-20°	75.4	4.5
20°-30°	73.5	4.4
30°-40°	83.6	5.0
40°-50°	97.7	5.8
50°-60°	113.3	6.8
60°-70°	127.3	7.6
70°-80°	136.7	8.2
80°-90°	139.6	8.3
90°-100°	143.2	8.5
100°-110°	140.1	8.4
110°-120°	128.1	7.6
120°-130°	109.1	6.5
130°-140°	86.0	5.1
140°-150°	61.5	3.7
150°-160°	38.7	2.3
160°-170°	18.8	1.1
170°-180°	3.9	0.2
0°-30°	249.4	14.9
0°-40°	333.0	19.9
0°-60°	544.0	32.4
0°-90°	947.6	56.5
90°-120°	411.4	24.5
90°-150°	668.1	39.8
90°-180°	730.0	43.5
0°-180°	1677.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2256	
5°	1356	101
15°	254	75
25°	157	73
35°	133	84
45°	126	98
55°	126	113
65°	128	127
75°	130	137
85°	128	104
90°	129	71
95°	131	108
105°	133	140
115°	129	128
125°	122	109
135°	111	86
145°	98	62
155°	83	39
165°	66	19
175°	34	4
180°	22	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2255.5
2.5°	2447.6
5°	1355.8
7.5°	628.8
10°	462.2
12.5°	318.1
15°	253.6
17.5°	216.1
20°	189.8
22.5°	170.3
25°	156.8
27.5°	147.8
30°	141.1
32.5°	136.6
35°	132.8
37.5°	129.8
40°	127.6
42.5°	126.8
45°	126.1
47.5°	125.3
50°	125.3
52.5°	126.1
55°	126.1
57.5°	126.8
60°	126.8
62.5°	127.6
65°	128.3
67.5°	129.1
70°	129.1
72.5°	129.8
75°	129.8
77.5°	129.1
80°	127.6
82.5°	127.6
85°	127.6
87.5°	128.3
90°	129.1
92.5°	130.6
95°	131.3
97.5°	132.1
100°	132.8
102.5°	132.8
105°	132.8
107.5°	132.1
110°	131.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	130.6
115°	129.1
117.5°	127.6
120°	126.1
122.5°	123.8
125°	121.6
127.5°	119.3
130°	117.1
132.5°	114.0
135°	111.0
137.5°	108.0
140°	104.3
142.5°	101.3
145°	97.5
147.5°	94.5
150°	90.8
152.5°	87.0
155°	83.3
157.5°	79.5
160°	75.0
162.5°	71.3
165°	66.0
167.5°	60.0
170°	52.5
172.5°	44.3
175°	34.5
177.5°	25.5
180°	22.5



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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	8.1	9.1	9.0	10.0	11.2	8.1	9.1	9.0	10.0	11.2
	3H	11.0	11.9	11.8	12.8	14.0	11.0	11.9	11.8	12.8	14.0
	4H	12.3	13.2	13.2	14.1	15.3	12.3	13.2	13.2	14.1	15.3
	6H	13.7	14.5	14.6	15.4	16.7	13.7	14.5	14.6	15.4	16.7
	8H	14.3	15.1	15.2	16.1	17.3	14.3	15.1	15.2	16.1	17.3
	12H	14.9	15.7	15.9	16.6	17.9	14.9	15.7	15.9	16.6	17.9
4H	2H	8.8	9.7	9.7	10.7	11.9	8.8	9.7	9.7	10.7	11.9
	3H	11.9	12.6	12.8	13.6	14.8	11.9	12.6	12.8	13.6	14.8
	4H	13.4	14.1	14.3	15.1	16.3	13.4	14.1	14.3	15.1	16.3
	6H	14.9	15.5	15.9	16.5	17.8	14.9	15.5	15.9	16.5	17.8
	8H	15.6	16.2	16.6	17.2	18.5	15.6	16.2	16.6	17.2	18.5
	12H	16.4	16.9	17.3	17.9	19.2	16.4	16.9	17.3	17.9	19.2
8H	4H	13.9	14.5	14.8	15.5	16.7	13.9	14.5	14.8	15.5	16.7
	6H	15.6	16.1	16.6	17.1	18.4	15.6	16.1	16.6	17.1	18.4
	8H	16.5	16.9	17.5	17.9	19.2	16.5	16.9	17.5	17.9	19.2
	12H	17.4	17.8	18.4	18.8	20.1	17.4	17.8	18.4	18.8	20.1
12H	4H	14.0	14.5	15.0	15.5	16.8	14.0	14.5	15.0	15.5	16.8
	6H	15.8	16.2	16.8	17.2	18.5	15.8	16.2	16.8	17.2	18.5
	8H	16.7	17.1	17.7	18.1	19.5	16.7	17.1	17.7	18.1	19.5

(END OF REPORT)