

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: P1245373

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245373
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-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

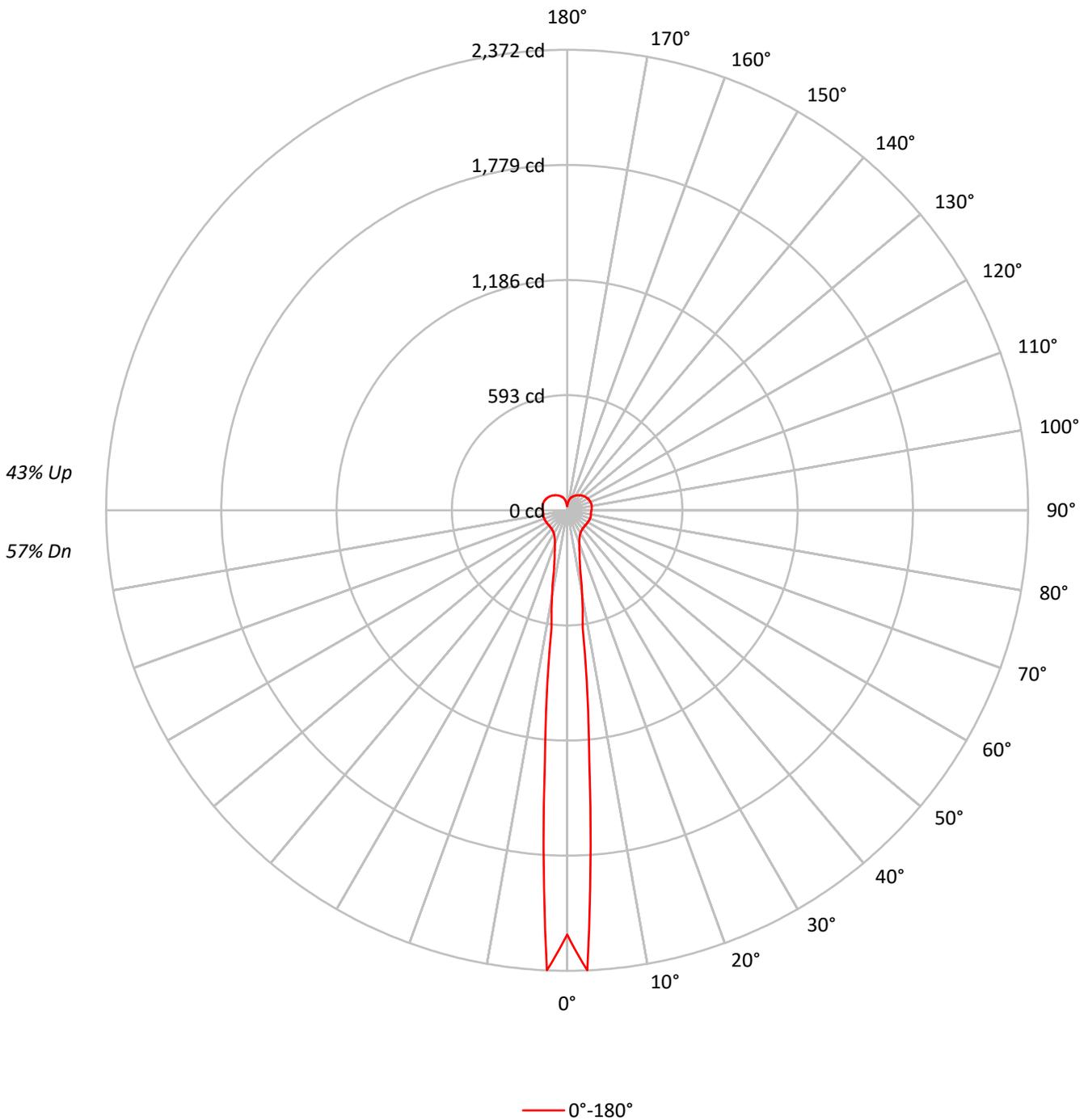
Lumens per Lamp: N/A
Luminaire Lumens: 1625.1 lumens
Efficiency: N/A
Efficacy: 41.9 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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

TEST NUMBER: P1245373

CATALOG NUMBER: PRLX-UNA-L-940-16L-U-PS

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°	69141
5°	32406
10°	9110
15°	4279
20°	2819
25°	2095
30°	1724
35°	1506
40°	1359
45°	1275
50°	1215
55°	1183
60°	1162
65°	1156
70°	1154
75°	1159
80°	1147
85°	1164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1275 cd/sqm



TEST NUMBER: P1245373

CATALOG NUMBER: PRLX-UNA-L-940-16L-U-PS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	6.0
10°-20°	73.1	4.5
20°-30°	71.2	4.4
30°-40°	81.0	5.0
40°-50°	94.6	5.8
50°-60°	109.7	6.8
60°-70°	123.3	7.6
70°-80°	132.5	8.2
80°-90°	135.3	8.3
90°-100°	138.7	8.5
100°-110°	135.8	8.4
110°-120°	124.1	7.6
120°-130°	105.7	6.5
130°-140°	83.4	5.1
140°-150°	59.7	3.7
150°-160°	37.5	2.3
160°-170°	18.3	1.1
170°-180°	3.8	0.2
0°-30°	241.6	14.9
0°-40°	322.7	19.9
0°-60°	527.0	32.4
0°-90°	918.2	56.5
90°-120°	398.6	24.5
90°-150°	647.4	39.8
90°-180°	707.0	43.5
0°-180°	1625.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2186	
5°	1314	97
15°	246	73
25°	152	71
35°	129	81
45°	122	95
55°	122	110
65°	124	123
75°	126	133
85°	124	101
90°	125	69
95°	127	104
105°	129	136
115°	125	124
125°	118	106
135°	108	83
145°	94	60
155°	81	38
165°	64	18
175°	33	4
180°	22	

TEST NUMBER: P1245373

CATALOG NUMBER: PRLX-UNA-L-940-16L-U-PS

CANDELA DISTRIBUTION (FULL):

0°	
0°	2185.5
2.5°	2371.7
5°	1313.8
7.5°	609.3
10°	447.9
12.5°	308.3
15°	245.7
17.5°	209.4
20°	183.9
22.5°	165.0
25°	152.0
27.5°	143.2
30°	136.7
32.5°	132.3
35°	128.7
37.5°	125.8
40°	123.6
42.5°	122.9
45°	122.1
47.5°	121.4
50°	121.4
52.5°	122.1
55°	122.1
57.5°	122.9
60°	122.9
62.5°	123.6
65°	124.3
67.5°	125.1
70°	125.1
72.5°	125.8
75°	125.8
77.5°	125.1
80°	123.6
82.5°	123.6
85°	123.6
87.5°	124.3
90°	125.1
92.5°	126.5
95°	127.2
97.5°	128.0
100°	128.7
102.5°	128.7
105°	128.7
107.5°	128.0
110°	127.2

TEST NUMBER: P1245373

CATALOG NUMBER: PRLX-UNA-L-940-16L-U-PS

CANDELA DISTRIBUTION (continued):

	0°
112.5°	126.5
115°	125.1
117.5°	123.6
120°	122.1
122.5°	120.0
125°	117.8
127.5°	115.6
130°	113.4
132.5°	110.5
135°	107.6
137.5°	104.7
140°	101.1
142.5°	98.2
145°	94.5
147.5°	91.6
150°	88.0
152.5°	84.3
155°	80.7
157.5°	77.1
160°	72.7
162.5°	69.1
165°	64.0
167.5°	58.2
170°	50.9
172.5°	42.9
175°	33.4
177.5°	24.7
180°	21.8



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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	8.0	9.0	8.9	9.9	11.1	8.0	9.0	8.9	9.9	11.1
	3H	10.8	11.8	11.7	12.7	13.9	10.8	11.8	11.7	12.7	13.9
	4H	12.2	13.1	13.1	14.0	15.2	12.2	13.1	13.1	14.0	15.2
	6H	13.6	14.4	14.5	15.3	16.5	13.6	14.4	14.5	15.3	16.5
	8H	14.2	15.0	15.1	16.0	17.2	14.2	15.0	15.1	16.0	17.2
	12H	14.8	15.6	15.8	16.5	17.8	14.8	15.6	15.8	16.5	17.8
4H	2H	8.7	9.6	9.6	10.5	11.7	8.7	9.6	9.6	10.5	11.7
	3H	11.8	12.5	12.7	13.5	14.7	11.8	12.5	12.7	13.5	14.7
	4H	13.3	14.0	14.2	15.0	16.2	13.3	14.0	14.2	15.0	16.2
	6H	14.8	15.4	15.7	16.4	17.6	14.8	15.4	15.7	16.4	17.6
	8H	15.5	16.1	16.5	17.1	18.4	15.5	16.1	16.5	17.1	18.4
	12H	16.3	16.8	17.2	17.8	19.1	16.3	16.8	17.2	17.8	19.1
8H	4H	13.8	14.4	14.7	15.4	16.6	13.8	14.4	14.7	15.4	16.6
	6H	15.5	16.0	16.5	17.0	18.3	15.5	16.0	16.5	17.0	18.3
	8H	16.4	16.8	17.3	17.8	19.1	16.4	16.8	17.3	17.8	19.1
	12H	17.3	17.7	18.3	18.7	20.0	17.3	17.7	18.3	18.7	20.0
12H	4H	13.9	14.4	14.8	15.4	16.7	13.9	14.4	14.8	15.4	16.7
	6H	15.7	16.1	16.6	17.1	18.4	15.7	16.1	16.6	17.1	18.4
	8H	16.6	17.0	17.6	18.0	19.3	16.6	17.0	17.6	18.0	19.3

(END OF REPORT)