

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: P1245125

Luminaire Tested: PRLX-NIM-L-940-27L-U-NR

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-NIM-L-940-27L-U-NR
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL RIBS SHADE TEXTURE
LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

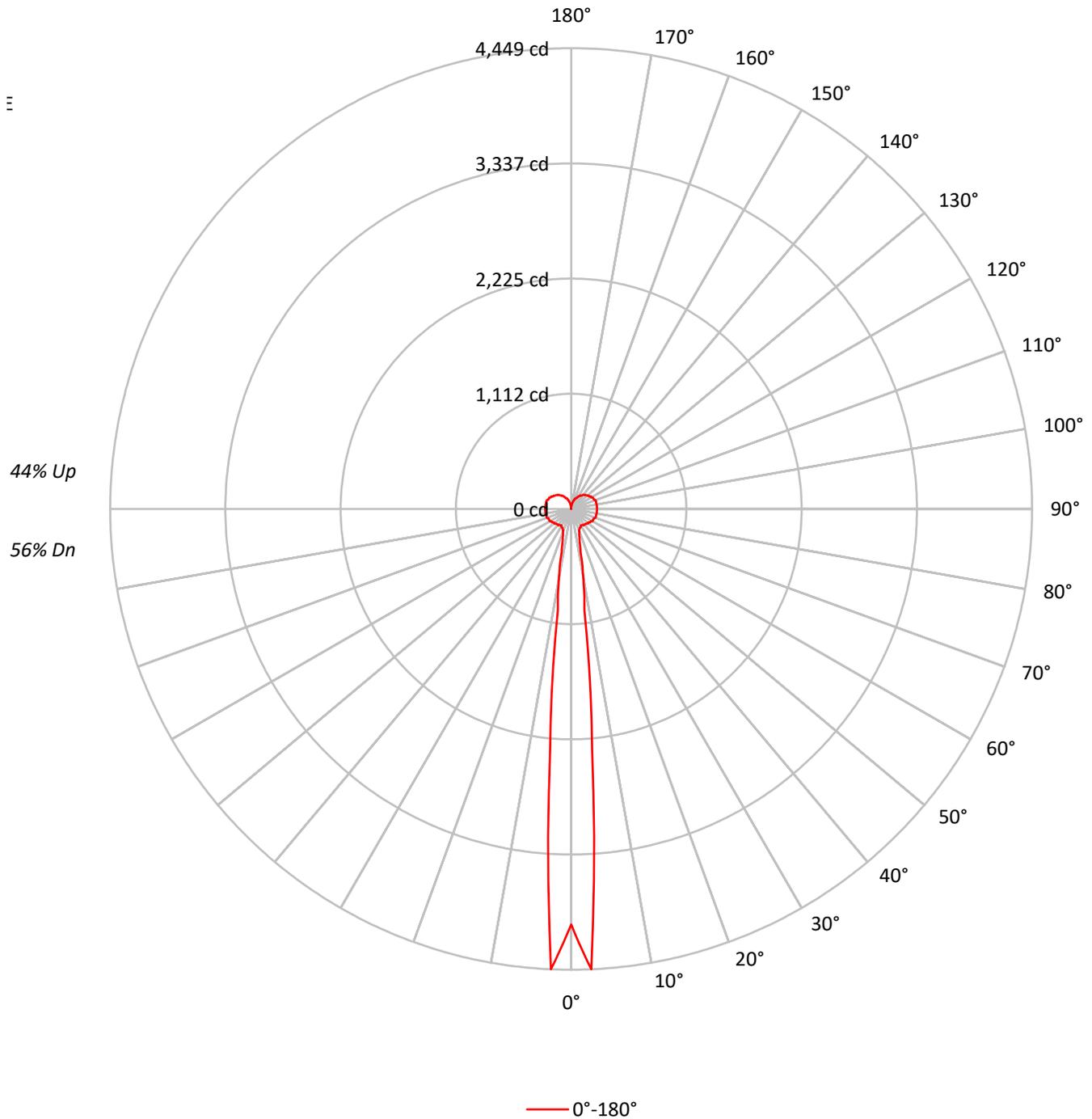
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2899.8 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 69.4
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: P1245125
CATALOG NUMBER: PRLX-NIM-L-940-27L-U-NR

Luminous Intensity Polar Plot





TEST NUMBER: P1245125

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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	56
1	95	89	83	78	87	82	77	73	70	66	62	58	55	53	48	45	43	38
2	85	76	68	61	78	70	63	57	59	54	49	49	45	42	40	37	34	30
3	77	66	57	50	71	61	53	47	52	45	40	43	38	34	35	31	28	24
4	71	58	49	42	65	54	46	40	46	39	34	38	33	29	31	27	24	20
5	65	52	43	36	60	48	40	34	41	35	30	34	29	25	28	24	21	18
6	60	47	38	32	55	44	36	30	37	31	26	31	26	22	26	22	19	16
7	56	43	34	28	51	40	32	27	34	28	23	29	24	20	24	20	17	15
8	52	39	31	25	48	36	29	24	32	25	21	27	22	18	23	19	16	13
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	15	12
10	46	33	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126944
5°	57479
10°	13686
15°	5425
20°	3439
25°	2749
30°	2357
35°	2187
40°	2192
45°	2082
50°	2120
55°	2173
60°	2239
65°	2203
70°	2299
75°	2297
80°	2312
85°	2346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 2399 cd/sqm



TEST NUMBER: P1245125

CATALOG NUMBER: PRLX-NIM-L-940-27L-U-NR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	5.9
10°-20°	96.7	3.3
20°-30°	94.0	3.2
30°-40°	120.6	4.2
40°-50°	158.2	5.5
50°-60°	198.6	6.9
60°-70°	236.6	8.2
70°-80°	263.6	9.1
80°-90°	271.9	9.4
90°-100°	271.9	9.4
100°-110°	263.6	9.1
110°-120°	235.1	8.1
120°-130°	193.0	6.7
130°-140°	147.4	5.1
140°-150°	99.2	3.4
150°-160°	54.5	1.9
160°-170°	21.9	0.8
170°-180°	2.7	0.1
0°-30°	360.8	12.4
0°-40°	481.3	16.6
0°-60°	838.2	28.9
0°-90°	1610.4	55.5
90°-120°	770.7	26.6
90°-150°	1210.4	41.7
90°-180°	1289.0	44.5
0°-180°	2899.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4013	
5°	2330	170
15°	312	97
25°	199	94
35°	187	121
45°	199	158
55°	224	199
65°	237	237
75°	249	264
85°	249	204
90°	249	137
95°	249	204
105°	249	264
115°	237	235
125°	212	193
135°	187	147
145°	162	99
155°	112	55
165°	75	22
175°	12	3
180°	0	

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CATALOG NUMBER: PRLX-NIM-L-940-27L-U-NR

CANDELA DISTRIBUTION (FULL):

0°	
0°	4012.6
2.5°	4448.8
5°	2330.3
7.5°	984.5
10°	672.9
12.5°	423.7
15°	311.5
17.5°	261.7
20°	224.3
22.5°	211.8
25°	199.4
27.5°	199.4
30°	186.9
32.5°	186.9
35°	186.9
37.5°	199.4
40°	199.4
42.5°	199.4
45°	199.4
47.5°	211.8
50°	211.8
52.5°	211.8
55°	224.3
57.5°	224.3
60°	236.8
62.5°	236.8
65°	236.8
67.5°	236.8
70°	249.2
72.5°	249.2
75°	249.2
77.5°	249.2
80°	249.2
82.5°	249.2
85°	249.2
87.5°	249.2
90°	249.2
92.5°	249.2
95°	249.2
97.5°	249.2
100°	249.2
102.5°	249.2
105°	249.2
107.5°	249.2
110°	249.2

TEST NUMBER: P1245125

CATALOG NUMBER: PRLX-NIM-L-940-27L-U-NR

CANDELA DISTRIBUTION (continued):

	0°
112.5°	236.8
115°	236.8
117.5°	236.8
120°	224.3
122.5°	224.3
125°	211.8
127.5°	211.8
130°	199.4
132.5°	199.4
135°	186.9
137.5°	186.9
140°	174.5
142.5°	162.0
145°	162.0
147.5°	149.5
150°	137.1
152.5°	124.6
155°	112.2
157.5°	112.2
160°	99.7
162.5°	87.2
165°	74.8
167.5°	62.3
170°	49.8
172.5°	37.4
175°	12.5
177.5°	0.0
180°	0.0



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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	10.1	11.2	11.0	12.1	13.3	10.1	11.2	11.0	12.1	13.3
	3H	13.2	14.2	14.1	15.1	16.3	13.2	14.2	14.1	15.1	16.3
	4H	14.7	15.6	15.6	16.5	17.8	14.7	15.6	15.6	16.5	17.8
	6H	16.1	17.0	17.1	17.9	19.2	16.1	17.0	17.1	17.9	19.2
	8H	16.8	17.6	17.7	18.6	19.8	16.8	17.6	17.7	18.6	19.8
	12H	17.5	18.3	18.4	19.2	20.5	17.5	18.3	18.4	19.2	20.5
4H	2H	10.9	11.8	11.9	12.8	14.0	10.9	11.8	11.9	12.8	14.0
	3H	14.2	15.0	15.1	16.0	17.2	14.2	15.0	15.1	16.0	17.2
	4H	15.8	16.6	16.8	17.5	18.8	15.8	16.6	16.8	17.5	18.8
	6H	17.4	18.1	18.4	19.1	20.3	17.4	18.1	18.4	19.1	20.3
	8H	18.2	18.8	19.1	19.8	21.1	18.2	18.8	19.1	19.8	21.1
	12H	19.0	19.5	19.9	20.5	21.8	19.0	19.5	19.9	20.5	21.8
8H	4H	16.4	17.0	17.3	17.9	19.2	16.4	17.0	17.3	17.9	19.2
	6H	18.1	18.7	19.1	19.7	21.0	18.1	18.7	19.1	19.7	21.0
	8H	19.1	19.5	20.0	20.5	21.8	19.1	19.5	20.0	20.5	21.8
	12H	20.0	20.4	21.0	21.4	22.7	20.0	20.4	21.0	21.4	22.7
12H	4H	16.5	17.0	17.4	18.0	19.3	16.5	17.0	17.4	18.0	19.3
	6H	18.3	18.8	19.3	19.8	21.1	18.3	18.8	19.3	19.8	21.1
	8H	19.3	19.8	20.3	20.8	22.1	19.3	19.8	20.3	20.8	22.1

(END OF REPORT)