

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: P1245276

Luminaire Tested: PRLX-NIM-S-940-07L-U-NL

Issue Date: 1/30/2026

**Test Information**

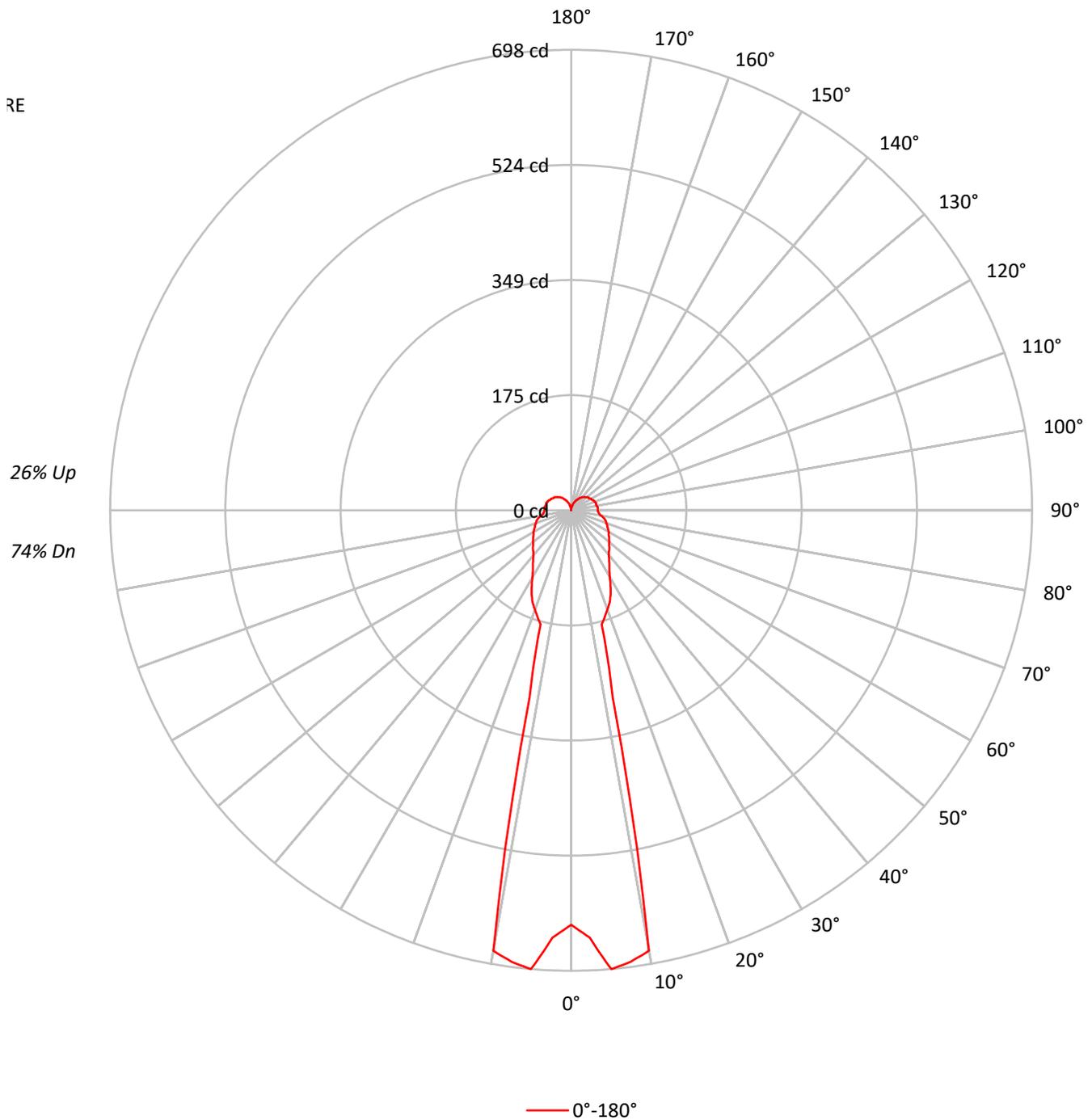
Test Method: LM-79-2019  
Report Number: P1245276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-NIM-S-940-07L-U-NL  
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL LINES SHADE TEXTURE  
LIGHT LEVEL 3  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 746.1 lumens  
Efficiency: N/A  
Efficacy: 46.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4  
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')  
CIE Type: Semi-Direct  
  
Input Watts (W): 16.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P1245276  
CATALOG NUMBER: PRLX-NIM-S-940-07L-U-NL

### 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	113	113	113	113	107	107	107	107	96	96	96		87	87	87		78	78	78	74
1	101	96	91	87	96	91	87	83	82	79	76		74	71	69		66	64	62	58
2	92	84	77	71	87	80	73	68	72	67	63		65	61	57		58	55	52	49
3	85	74	66	60	80	71	64	58	64	58	53		58	53	49		52	48	45	42
4	78	67	58	52	74	64	56	50	58	52	47		52	47	43		47	43	40	37
5	72	60	52	46	69	58	50	44	53	46	41		48	43	39		44	39	36	33
6	68	55	47	41	64	53	45	40	48	42	37		44	39	35		41	36	33	30
7	63	51	43	37	60	49	41	36	45	39	34		41	36	32		38	33	30	28
8	59	47	39	34	56	45	38	33	42	36	31		39	33	30		36	31	28	26
9	56	44	36	31	53	42	35	30	39	33	29		36	31	27		34	29	26	24
10	53	41	34	29	51	40	33	28	37	31	27		34	29	26		32	28	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	19874
5°	19614
10°	17246
15°	4187
20°	3494
25°	2907
30°	2297
35°	1906
40°	1629
45°	1474
50°	1335
55°	1234
60°	1164
65°	1079
70°	1025
75°	977
80°	880
85°	839

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1474 cd/sqm

TEST NUMBER: P1245276

CATALOG NUMBER: PRLX-NIM-S-940-07L-U-NL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	8.7
10°-20°	69.1	9.3
20°-30°	64.3	8.6
30°-40°	63.4	8.5
40°-50°	63.1	8.5
50°-60°	62.8	8.4
60°-70°	60.5	8.1
70°-80°	55.1	7.4
80°-90°	45.9	6.1
90°-100°	43.9	5.9
100°-110°	41.1	5.5
110°-120°	36.1	4.8
120°-130°	29.4	3.9
130°-140°	21.9	2.9
140°-150°	14.1	1.9
150°-160°	7.3	1.0
160°-170°	2.5	0.3
170°-180°	0.2	0.0
0°-30°	198.5	26.6
0°-40°	261.9	35.1
0°-60°	387.8	52.0
0°-90°	549.3	73.6
90°-120°	121.1	16.2
90°-150°	186.6	25.0
90°-180°	197.0	26.4
0°-180°	746.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	628	
5°	698	65
15°	179	69
25°	141	64
35°	101	63
45°	82	63
55°	70	63
65°	60	61
75°	52	55
85°	42	35
90°	40	22
95°	40	33
105°	39	41
115°	36	36
125°	32	29
135°	28	22
145°	23	14
155°	16	7
165°	8	3
175°	1	0
180°	0	

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CATALOG NUMBER: PRLX-NIM-S-940-07L-U-NL

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	628.2
2.5°	648.4
5°	698.2
7.5°	690.1
10°	678.0
12.5°	290.6
15°	178.9
17.5°	169.5
20°	160.1
22.5°	152.0
25°	141.2
27.5°	129.1
30°	117.0
32.5°	107.6
35°	100.9
37.5°	94.2
40°	88.8
42.5°	84.7
45°	82.1
47.5°	78.0
50°	75.3
52.5°	72.6
55°	70.0
57.5°	67.3
60°	65.9
62.5°	63.2
65°	60.5
67.5°	59.2
70°	56.5
72.5°	55.2
75°	52.5
77.5°	49.8
80°	45.7
82.5°	43.0
85°	41.7
87.5°	40.4
90°	40.4
92.5°	40.4
95°	40.4
97.5°	40.4
100°	39.0
102.5°	39.0
105°	39.0
107.5°	39.0
110°	37.7



TEST NUMBER: P1245276

CATALOG NUMBER: PRLX-NIM-S-940-07L-U-NL

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	37.7
115°	36.3
117.5°	35.0
120°	35.0
122.5°	33.6
125°	32.3
127.5°	32.3
130°	30.9
132.5°	29.6
135°	28.2
137.5°	26.9
140°	25.6
142.5°	24.2
145°	22.9
147.5°	20.2
150°	18.8
152.5°	17.5
155°	16.1
157.5°	13.5
160°	12.1
162.5°	10.8
165°	8.1
167.5°	6.7
170°	5.4
172.5°	2.7
175°	1.3
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	9.3	10.4	10.0	11.2	12.1	9.3	10.4	10.0	11.2	12.1
	3H	11.6	12.6	12.3	13.4	14.3	11.6	12.6	12.3	13.4	14.3
	4H	12.7	13.6	13.4	14.4	15.3	12.7	13.6	13.4	14.4	15.3
	6H	13.6	14.6	14.4	15.3	16.3	13.6	14.6	14.4	15.3	16.3
	8H	14.0	14.9	14.8	15.7	16.7	14.0	14.9	14.8	15.7	16.7
	12H	14.5	15.3	15.2	16.1	17.1	14.5	15.3	15.2	16.1	17.1
4H	2H	9.9	10.9	10.6	11.6	12.6	9.9	10.9	10.6	11.6	12.6
	3H	12.4	13.2	13.2	14.0	15.0	12.4	13.2	13.2	14.0	15.0
	4H	13.6	14.4	14.4	15.2	16.2	13.6	14.4	14.4	15.2	16.2
	6H	14.7	15.4	15.5	16.3	17.2	14.7	15.4	15.5	16.3	17.2
	8H	15.3	15.9	16.1	16.7	17.7	15.3	15.9	16.1	16.7	17.7
	12H	15.8	16.4	16.6	17.2	18.2	15.8	16.4	16.6	17.2	18.2
8H	4H	14.0	14.7	14.8	15.5	16.5	14.0	14.7	14.8	15.5	16.5
	6H	15.3	15.9	16.1	16.7	17.7	15.3	15.9	16.1	16.7	17.7
	8H	15.9	16.4	16.8	17.3	18.3	15.9	16.4	16.8	17.3	18.3
	12H	16.6	17.1	17.5	17.9	19.0	16.6	17.1	17.5	17.9	19.0
12H	4H	14.1	14.7	14.9	15.5	16.5	14.1	14.7	14.9	15.5	16.5
	6H	15.4	15.9	16.3	16.8	17.8	15.4	15.9	16.3	16.8	17.8
	8H	16.1	16.6	17.0	17.4	18.5	16.1	16.6	17.0	17.4	18.5

(END OF REPORT)