

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: P1245277

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245277
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-NR
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL RIBS SHADE TEXTURE
LIGHT LEVEL 3
Light Source: -
Ballast/Driver: -

Summary

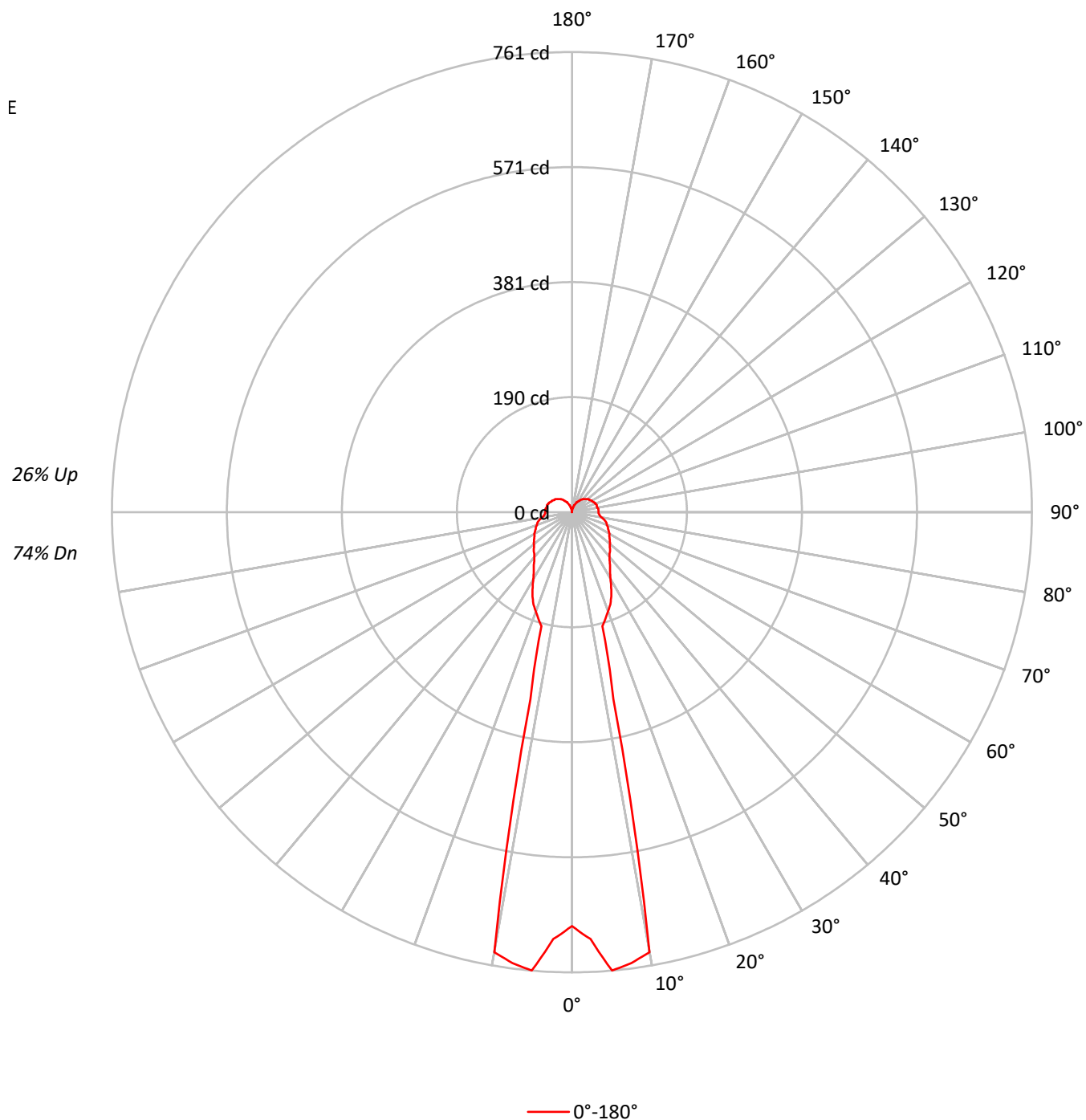
Lumens per Lamp: N/A
Luminaire Lumens: 813.0 lumens
Efficiency: N/A
Efficacy: 50.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 16.2
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	113	113	113	113	107	107	107	107	96	96	96		87	87	87		78
1	101	96	91	87	96	91	87	83	82	79	76		74	71	69		66
2	92	84	77	71	87	80	73	68	72	67	63		65	61	57		58
3	85	74	66	60	80	71	64	58	64	58	53		58	53	49		52
4	78	67	58	52	74	64	56	50	58	52	47		52	47	43		47
5	72	60	52	46	69	58	50	44	53	46	41		48	43	39		44
6	68	55	47	41	64	53	45	40	48	42	37		44	39	35		41
7	63	51	43	37	60	49	41	36	45	39	34		41	36	32		38
8	59	47	39	34	56	45	38	33	42	36	31		39	33	30		36
9	56	44	36	31	53	42	35	30	39	33	29		36	31	27		34
10	53	41	34	29	51	40	33	28	37	31	27		34	29	26		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21658
5°	21375
10°	18795
15°	4563
20°	3808
25°	3169
30°	2503
35°	2078
40°	1776
45°	1606
50°	1455
55°	1343
60°	1268
65°	1177
70°	1118
75°	1065
80°	959
85°	913

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1606 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	8.7
10°-20°	75.3	9.3
20°-30°	70.1	8.6
30°-40°	69.1	8.5
40°-50°	68.8	8.5
50°-60°	68.5	8.4
60°-70°	66.0	8.1
70°-80°	60.0	7.4
80°-90°	50.0	6.1
90°-100°	47.8	5.9
100°-110°	44.8	5.5
110°-120°	39.3	4.8
120°-130°	32.1	3.9
130°-140°	23.9	2.9
140°-150°	15.4	1.9
150°-160°	8.0	1.0
160°-170°	2.8	0.3
170°-180°	0.3	0.0
0°-30°	216.4	26.6
0°-40°	285.4	35.1
0°-60°	422.7	52.0
0°-90°	598.7	73.6
90°-120°	131.9	16.2
90°-150°	203.3	25.0
90°-180°	214.0	26.3
0°-180°	813.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	685	
5°	761	71
15°	195	75
25°	154	70
35°	110	69
45°	89	69
55°	76	68
65°	66	66
75°	57	60
85°	45	38
90°	44	24
95°	44	36
105°	42	45
115°	40	39
125°	35	32
135°	31	24
145°	25	15
155°	18	8
165°	9	3
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	684.6
2.5°	706.6
5°	760.9
7.5°	752.1
10°	738.9
12.5°	316.7
15°	195.0
17.5°	184.7
20°	174.5
22.5°	165.7
25°	153.9
27.5°	140.7
30°	127.5
32.5°	117.3
35°	110.0
37.5°	102.6
40°	96.8
42.5°	92.4
45°	89.4
47.5°	85.0
50°	82.1
52.5°	79.2
55°	76.2
57.5°	73.3
60°	71.8
62.5°	68.9
65°	66.0
67.5°	64.5
70°	61.6
72.5°	60.1
75°	57.2
77.5°	54.2
80°	49.8
82.5°	46.9
85°	45.4
87.5°	44.0
90°	44.0
92.5°	44.0
95°	44.0
97.5°	44.0
100°	42.5
102.5°	42.5
105°	42.5
107.5°	42.5
110°	41.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	41.0
115°	39.6
117.5°	38.1
120°	38.1
122.5°	36.7
125°	35.2
127.5°	35.2
130°	33.7
132.5°	32.3
135°	30.8
137.5°	29.3
140°	27.9
142.5°	26.4
145°	24.9
147.5°	22.0
150°	20.5
152.5°	19.1
155°	17.6
157.5°	14.7
160°	13.2
162.5°	11.7
165°	8.8
167.5°	7.3
170°	5.9
172.5°	2.9
175°	1.5
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	9.6	10.7	10.3	11.5	12.3	9.6	10.7	10.3	11.5	12.3
	3H	11.9	12.9	12.6	13.7	14.6	11.9	12.9	12.6	13.7	14.6
	4H	13.0	13.9	13.7	14.7	15.6	13.0	13.9	13.7	14.7	15.6
	6H	13.9	14.8	14.7	15.6	16.6	13.9	14.8	14.7	15.6	16.6
	8H	14.3	15.2	15.1	16.0	17.0	14.3	15.2	15.1	16.0	17.0
	12H	14.8	15.6	15.5	16.4	17.4	14.8	15.6	15.5	16.4	17.4
4H	2H	10.2	11.2	10.9	11.9	12.8	10.2	11.2	10.9	11.9	12.8
	3H	12.7	13.5	13.5	14.3	15.3	12.7	13.5	13.5	14.3	15.3
	4H	13.9	14.7	14.7	15.5	16.5	13.9	14.7	14.7	15.5	16.5
	6H	15.0	15.7	15.8	16.6	17.5	15.0	15.7	15.8	16.6	17.5
	8H	15.6	16.2	16.3	17.0	18.0	15.6	16.2	16.3	17.0	18.0
	12H	16.1	16.7	16.9	17.5	18.5	16.1	16.7	16.9	17.5	18.5
8H	4H	14.3	15.0	15.1	15.8	16.8	14.3	15.0	15.1	15.8	16.8
	6H	15.6	16.2	16.4	17.0	18.0	15.6	16.2	16.4	17.0	18.0
	8H	16.2	16.7	17.1	17.6	18.6	16.2	16.7	17.1	17.6	18.6
	12H	16.9	17.4	17.8	18.2	19.3	16.9	17.4	17.8	18.2	19.3
12H	4H	14.4	15.0	15.2	15.8	16.8	14.4	15.0	15.2	15.8	16.8
	6H	15.7	16.2	16.6	17.1	18.1	15.7	16.2	16.6	17.1	18.1
	8H	16.4	16.9	17.3	17.7	18.8	16.4	16.9	17.3	17.7	18.8

(END OF REPORT)