

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: P1245107

Luminaire Tested: PRLX-NIM-L-940-12L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245107
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-940-12L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 4
Light Source: -
Ballast/Driver: -

Summary

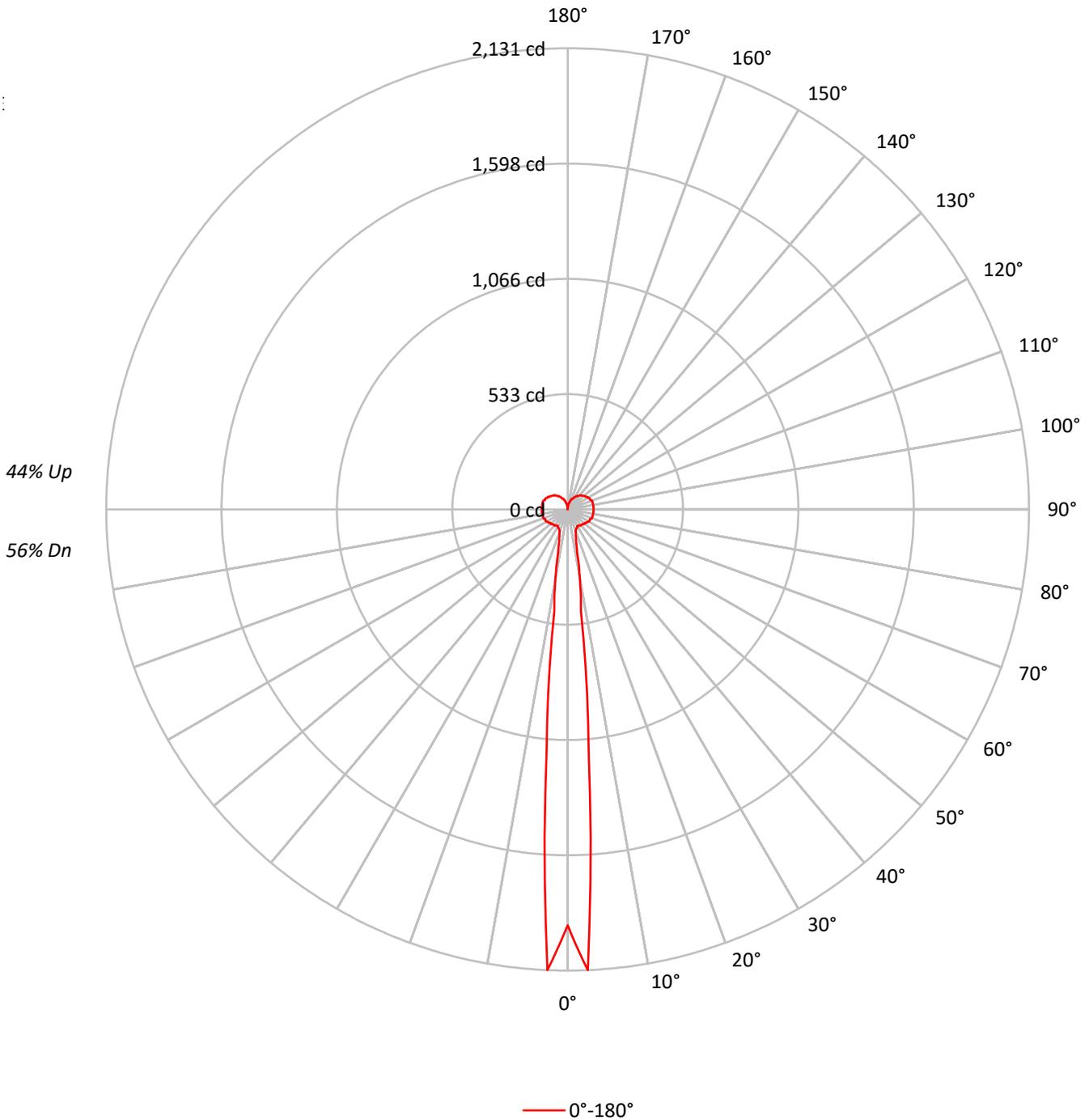
Lumens per Lamp: N/A
Luminaire Lumens: 1389.1 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 30.5
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	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°	60802
5°	27530
10°	6555
15°	2599
20°	1647
25°	1316
30°	1129
35°	1047
40°	1050
45°	997
50°	1016
55°	1041
60°	1072
65°	1055
70°	1101
75°	1100
80°	1108
85°	1124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1150 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	5.9
10°-20°	46.3	3.3
20°-30°	45.0	3.2
30°-40°	57.7	4.2
40°-50°	75.8	5.5
50°-60°	95.1	6.8
60°-70°	113.3	8.2
70°-80°	126.3	9.1
80°-90°	130.3	9.4
90°-100°	130.3	9.4
100°-110°	126.3	9.1
110°-120°	112.6	8.1
120°-130°	92.5	6.7
130°-140°	70.6	5.1
140°-150°	47.5	3.4
150°-160°	26.1	1.9
160°-170°	10.5	0.8
170°-180°	1.3	0.1
0°-30°	172.8	12.4
0°-40°	230.5	16.6
0°-60°	401.5	28.9
0°-90°	771.4	55.5
90°-120°	369.2	26.6
90°-150°	579.8	41.7
90°-180°	618.0	44.5
0°-180°	1389.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1922	
5°	1116	81
15°	149	46
25°	96	45
35°	90	58
45°	96	76
55°	107	95
65°	113	113
75°	119	126
85°	119	98
90°	119	65
95°	119	98
105°	119	126
115°	113	113
125°	102	92
135°	90	71
145°	78	48
155°	54	26
165°	36	10
175°	6	1
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1921.9
2.5°	2130.8
5°	1116.1
7.5°	471.5
10°	322.3
12.5°	202.9
15°	149.2
17.5°	125.3
20°	107.4
22.5°	101.5
25°	95.5
27.5°	95.5
30°	89.5
32.5°	89.5
35°	89.5
37.5°	95.5
40°	95.5
42.5°	95.5
45°	95.5
47.5°	101.5
50°	101.5
52.5°	101.5
55°	107.4
57.5°	107.4
60°	113.4
62.5°	113.4
65°	113.4
67.5°	113.4
70°	119.4
72.5°	119.4
75°	119.4
77.5°	119.4
80°	119.4
82.5°	119.4
85°	119.4
87.5°	119.4
90°	119.4
92.5°	119.4
95°	119.4
97.5°	119.4
100°	119.4
102.5°	119.4
105°	119.4
107.5°	119.4
110°	119.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	113.4
115°	113.4
117.5°	113.4
120°	107.4
122.5°	107.4
125°	101.5
127.5°	101.5
130°	95.5
132.5°	95.5
135°	89.5
137.5°	89.5
140°	83.6
142.5°	77.6
145°	77.6
147.5°	71.6
150°	65.7
152.5°	59.7
155°	53.7
157.5°	53.7
160°	47.7
162.5°	41.8
165°	35.8
167.5°	29.8
170°	23.9
172.5°	17.9
175°	6.0
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	7.6	8.6	8.5	9.5	10.7	7.6	8.6	8.5	9.5	10.7
	3H	10.7	11.6	11.5	12.5	13.7	10.7	11.6	11.5	12.5	13.7
	4H	12.1	13.1	13.1	14.0	15.2	12.1	13.1	13.1	14.0	15.2
	6H	13.6	14.4	14.5	15.4	16.6	13.6	14.4	14.5	15.4	16.6
	8H	14.3	15.1	15.2	16.0	17.3	14.3	15.1	15.2	16.0	17.3
	12H	14.9	15.7	15.9	16.7	17.9	14.9	15.7	15.9	16.7	17.9
4H	2H	8.4	9.3	9.3	10.2	11.4	8.4	9.3	9.3	10.2	11.4
	3H	11.6	12.4	12.6	13.4	14.6	11.6	12.4	12.6	13.4	14.6
	4H	13.3	14.0	14.2	15.0	16.2	13.3	14.0	14.2	15.0	16.2
	6H	14.9	15.5	15.8	16.5	17.7	14.9	15.5	15.8	16.5	17.7
	8H	15.6	16.3	16.6	17.2	18.5	15.6	16.3	16.6	17.2	18.5
	12H	16.4	17.0	17.4	18.0	19.2	16.4	17.0	17.4	18.0	19.2
8H	4H	13.8	14.4	14.7	15.4	16.7	13.8	14.4	14.7	15.4	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	17.0	17.5	18.0	19.3	16.5	17.0	17.5	18.0	19.3
	12H	17.4	17.9	18.4	18.9	20.2	17.4	17.9	18.4	18.9	20.2
12H	4H	13.9	14.5	14.9	15.5	16.7	13.9	14.5	14.9	15.5	16.7
	6H	15.8	16.3	16.8	17.3	18.6	15.8	16.3	16.8	17.3	18.6
	8H	16.8	17.2	17.7	18.2	19.5	16.8	17.2	17.7	18.2	19.5

(END OF REPORT)