

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: P1245099

Luminaire Tested: PRLX-NIM-L-940-05L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245099
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-940-05L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

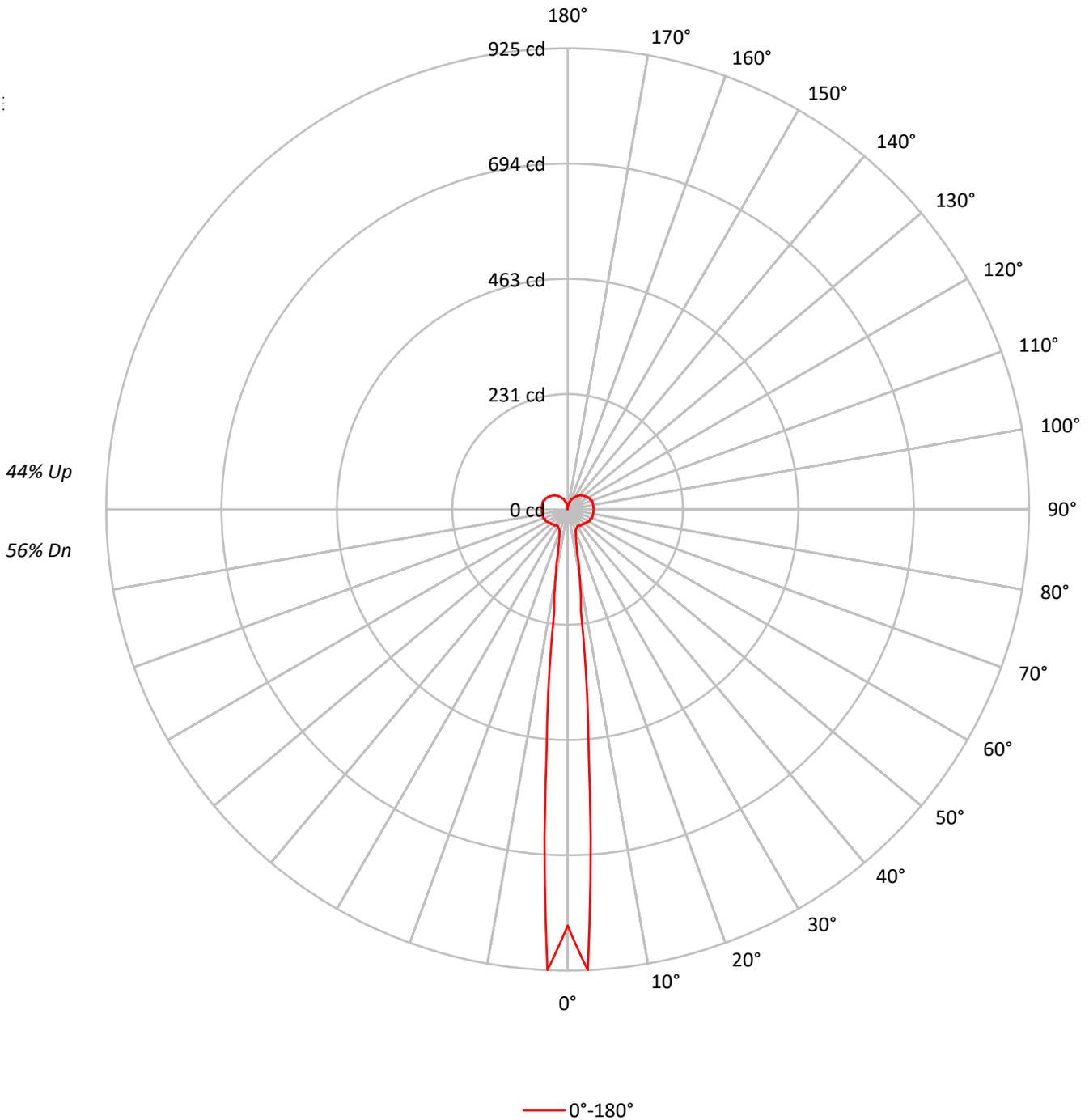
Lumens per Lamp: N/A
Luminaire Lumens: 602.8 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 14.8
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20						20								20		
RC	80					70						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°	26397
5°	11951
10°	2846
15°	1129
20°	714
25°	572
30°	490
35°	455
40°	456
45°	433
50°	441
55°	451
60°	465
65°	458
70°	478
75°	477
80°	481
85°	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	5.9
10°-20°	20.1	3.3
20°-30°	19.6	3.2
30°-40°	25.1	4.2
40°-50°	32.9	5.5
50°-60°	41.3	6.8
60°-70°	49.2	8.2
70°-80°	54.8	9.1
80°-90°	56.5	9.4
90°-100°	56.5	9.4
100°-110°	54.8	9.1
110°-120°	48.9	8.1
120°-130°	40.1	6.7
130°-140°	30.7	5.1
140°-150°	20.6	3.4
150°-160°	11.3	1.9
160°-170°	4.6	0.8
170°-180°	0.6	0.1
0°-30°	75.0	12.4
0°-40°	100.1	16.6
0°-60°	174.3	28.9
0°-90°	334.8	55.5
90°-120°	160.2	26.6
90°-150°	251.6	41.7
90°-180°	268.0	44.5
0°-180°	602.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	834	
5°	484	35
15°	65	20
25°	42	20
35°	39	25
45°	42	33
55°	47	41
65°	49	49
75°	52	55
85°	52	42
90°	52	28
95°	52	42
105°	52	55
115°	49	49
125°	44	40
135°	39	31
145°	34	21
155°	23	11
165°	16	5
175°	3	1
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	834.4
2.5°	925.0
5°	484.5
7.5°	204.7
10°	139.9
12.5°	88.1
15°	64.8
17.5°	54.4
20°	46.6
22.5°	44.0
25°	41.5
27.5°	41.5
30°	38.9
32.5°	38.9
35°	38.9
37.5°	41.5
40°	41.5
42.5°	41.5
45°	41.5
47.5°	44.0
50°	44.0
52.5°	44.0
55°	46.6
57.5°	46.6
60°	49.2
62.5°	49.2
65°	49.2
67.5°	49.2
70°	51.8
72.5°	51.8
75°	51.8
77.5°	51.8
80°	51.8
82.5°	51.8
85°	51.8
87.5°	51.8
90°	51.8
92.5°	51.8
95°	51.8
97.5°	51.8
100°	51.8
102.5°	51.8
105°	51.8
107.5°	51.8
110°	51.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	49.2
115°	49.2
117.5°	49.2
120°	46.6
122.5°	46.6
125°	44.0
127.5°	44.0
130°	41.5
132.5°	41.5
135°	38.9
137.5°	38.9
140°	36.3
142.5°	33.7
145°	33.7
147.5°	31.1
150°	28.5
152.5°	25.9
155°	23.3
157.5°	23.3
160°	20.7
162.5°	18.1
165°	15.5
167.5°	13.0
170°	10.4
172.5°	7.8
175°	2.6
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	4.7	5.7	5.6	6.6	7.8	4.7	5.7	5.6	6.6	7.8
	3H	7.8	8.7	8.6	9.6	10.8	7.8	8.7	8.6	9.6	10.8
	4H	9.2	10.2	10.1	11.1	12.3	9.2	10.2	10.1	11.1	12.3
	6H	10.7	11.5	11.6	12.5	13.7	10.7	11.5	11.6	12.5	13.7
	8H	11.4	12.2	12.3	13.1	14.4	11.4	12.2	12.3	13.1	14.4
	12H	12.0	12.8	13.0	13.8	15.0	12.0	12.8	13.0	13.8	15.0
4H	2H	5.5	6.4	6.4	7.3	8.5	5.5	6.4	6.4	7.3	8.5
	3H	8.7	9.5	9.7	10.5	11.7	8.7	9.5	9.7	10.5	11.7
	4H	10.4	11.1	11.3	12.1	13.3	10.4	11.1	11.3	12.1	13.3
	6H	12.0	12.6	12.9	13.6	14.8	12.0	12.6	12.9	13.6	14.8
	8H	12.7	13.4	13.7	14.3	15.6	12.7	13.4	13.7	14.3	15.6
	12H	13.5	14.1	14.5	15.1	16.3	13.5	14.1	14.5	15.1	16.3
8H	4H	10.9	11.5	11.8	12.5	13.8	10.9	11.5	11.8	12.5	13.8
	6H	12.7	13.2	13.7	14.2	15.5	12.7	13.2	13.7	14.2	15.5
	8H	13.6	14.1	14.6	15.1	16.4	13.6	14.1	14.6	15.1	16.4
	12H	14.5	15.0	15.5	16.0	17.3	14.5	15.0	15.5	16.0	17.3
12H	4H	11.0	11.6	12.0	12.6	13.8	11.0	11.6	12.0	12.6	13.8
	6H	12.9	13.4	13.8	14.3	15.7	12.9	13.4	13.8	14.3	15.7
	8H	13.9	14.3	14.8	15.3	16.6	13.9	14.3	14.8	15.3	16.6

(END OF REPORT)