

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: P1244991

Luminaire Tested: PRLX-MIN-S-940-07L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1244991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-MIN-S-940-07L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE LIGHT LEVEL 3
Light Source: -
Ballast/Driver: -

Summary

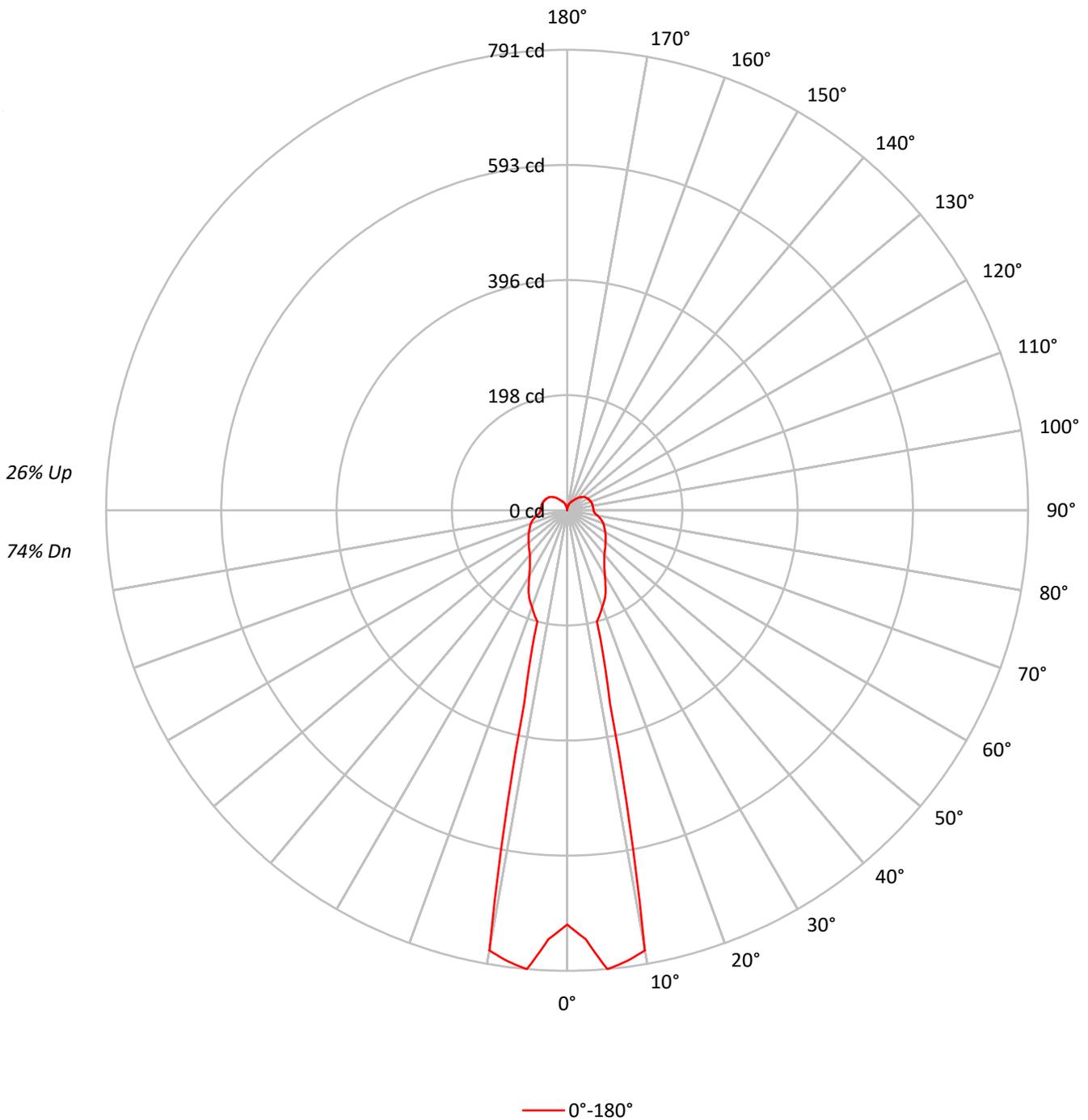
Lumens per Lamp: N/A
Luminaire Lumens: 843.1 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.38
Luminous Opening: Rectangular w/ Sides (W: 0.62' x L: 0.62' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 16.2
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	113	113	113	113	107	107	107	107	97	97	97		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	63	58	64	58	53		58	53	49		52	48	45	42
4	78	67	58	52	74	63	56	50	58	51	46		52	47	43		47	43	40	37
5	72	60	52	46	68	58	50	44	53	46	41		48	43	38		44	39	36	33
6	67	55	47	41	64	53	45	39	48	42	37		44	39	35		40	36	33	30
7	63	51	42	37	60	49	41	36	45	38	34		41	36	32		38	33	30	28
8	59	47	39	34	56	45	38	33	42	35	31		38	33	29		35	31	28	26
9	56	44	36	31	53	42	35	30	39	33	29		36	31	27		33	29	26	24
10	53	41	34	29	50	39	33	28	37	31	27		34	29	26		32	27	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19609
5°	19507
10°	17250
15°	4106
20°	3432
25°	2882
30°	2290
35°	1893
40°	1649
45°	1504
50°	1385
55°	1298
60°	1222
65°	1152
70°	1101
75°	1033
80°	946
85°	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1504 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	8.8
10°-20°	77.9	9.2
20°-30°	70.9	8.4
30°-40°	70.2	8.3
40°-50°	71.4	8.5
50°-60°	72.3	8.6
60°-70°	70.1	8.3
70°-80°	63.3	7.5
80°-90°	52.1	6.2
90°-100°	48.9	5.8
100°-110°	46.6	5.5
110°-120°	41.7	4.9
120°-130°	34.5	4.1
130°-140°	24.6	2.9
140°-150°	14.1	1.7
150°-160°	7.4	0.9
160°-170°	2.8	0.3
170°-180°	0.2	0.0
0°-30°	222.7	26.4
0°-40°	292.8	34.7
0°-60°	436.6	51.8
0°-90°	622.1	73.8
90°-120°	137.2	16.3
90°-150°	210.5	25.0
90°-180°	221.0	26.2
0°-180°	843.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	712	
5°	791	74
15°	198	78
25°	156	71
35°	111	70
45°	92	71
55°	81	72
65°	70	70
75°	60	63
85°	47	40
90°	45	25
95°	45	37
105°	44	47
115°	42	42
125°	39	35
135°	32	25
145°	22	14
155°	16	7
165°	10	3
175°	1	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	711.6
2.5°	737.5
5°	791.1
7.5°	781.4
10°	767.8
12.5°	339.7
15°	197.6
17.5°	187.3
20°	176.3
22.5°	167.3
25°	156.3
27.5°	142.1
30°	129.8
32.5°	118.8
35°	111.1
37.5°	104.6
40°	99.4
42.5°	95.6
45°	92.3
47.5°	89.1
50°	85.9
52.5°	83.3
55°	80.7
57.5°	78.1
60°	75.6
62.5°	73.0
65°	70.4
67.5°	68.5
70°	65.9
72.5°	63.3
75°	60.1
77.5°	56.8
80°	53.0
82.5°	49.1
85°	47.1
87.5°	45.9
90°	45.2
92.5°	45.2
95°	44.6
97.5°	44.6
100°	44.6
102.5°	44.6
105°	43.9
107.5°	43.9
110°	43.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	42.6
115°	42.0
117.5°	41.3
120°	40.7
122.5°	39.4
125°	38.7
127.5°	37.5
130°	35.5
132.5°	34.2
135°	31.6
137.5°	29.7
140°	27.1
142.5°	24.5
145°	22.0
147.5°	20.0
150°	18.7
152.5°	17.4
155°	15.5
157.5°	14.2
160°	12.9
162.5°	11.6
165°	9.7
167.5°	7.7
170°	5.2
172.5°	2.6
175°	0.6
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	9.6	10.7	10.3	11.5	12.4	9.6	10.7	10.3	11.5	12.4
	3H	11.9	12.9	12.6	13.7	14.6	11.9	12.9	12.6	13.7	14.6
	4H	12.9	13.9	13.7	14.7	15.6	12.9	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	14.7	15.6	15.5	16.4	17.3	14.7	15.6	15.5	16.4	17.3
4H	2H	10.2	11.2	10.9	11.9	12.9	10.2	11.2	10.9	11.9	12.9
	3H	12.7	13.6	13.5	14.4	15.3	12.7	13.6	13.5	14.4	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	15.5	16.2	16.3	17.0	18.0	15.5	16.2	16.3	17.0	18.0
	12H	16.0	16.6	16.9	17.5	18.5	16.0	16.6	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	17.3	17.7	18.2	19.2	16.9	17.3	17.7	18.2	19.2
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)