

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: P1245450

Luminaire Tested: PRLX-UNA-S-927-07L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-S-927-07L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE
LIGHT LEVEL 3
Light Source: -
Ballast/Driver: -

Summary

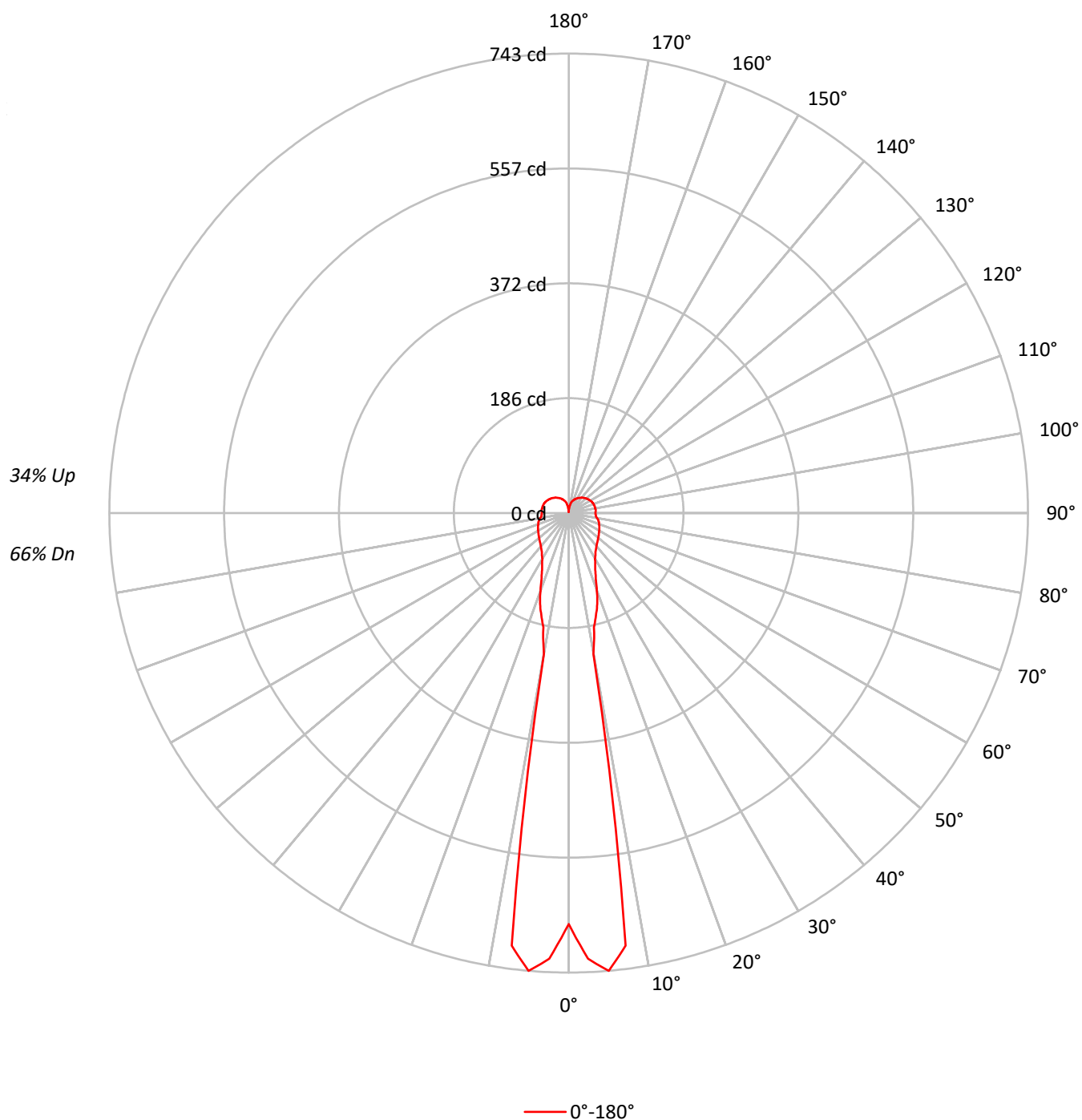
Lumens per Lamp: N/A
Luminaire Lumens: 695.1 lumens
Efficiency: N/A
Efficacy: 42.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

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	111	111	111	111	105	105	105	105	92	92	92		81	81	81		71
1	99	94	89	84	93	88	84	80	78	74	71		68	65	63		59
2	90	81	74	68	84	77	70	65	68	63	58		59	55	52		52
3	82	72	64	57	77	68	60	55	60	54	49		53	48	44		46
4	76	64	56	49	71	61	53	47	54	48	43		48	43	39		42
5	70	58	49	43	66	55	47	41	49	43	38		44	38	34		38
6	65	53	44	38	61	50	42	37	45	39	34		40	35	31		36
7	61	48	40	35	57	46	39	33	42	35	31		37	32	28		33
8	57	45	37	31	54	43	35	30	39	33	28		35	30	26		31
9	54	42	34	29	51	40	33	28	36	30	26		33	28	24		30
10	51	39	32	27	48	37	30	26	34	28	24		31	26	23		28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32547
5°	30201
10°	8088
15°	5275
20°	3709
25°	2591
30°	2020
35°	1691
40°	1483
45°	1341
50°	1230
55°	1144
60°	1083
65°	1030
70°	986
75°	949
80°	896
85°	872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1341 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	8.4
10°-20°	48.1	6.9
20°-30°	47.8	6.9
30°-40°	48.0	6.9
40°-50°	50.9	7.3
50°-60°	53.4	7.7
60°-70°	54.2	7.8
70°-80°	52.8	7.6
80°-90°	48.3	7.0
90°-100°	47.8	6.9
100°-110°	45.8	6.6
110°-120°	41.4	6.0
120°-130°	34.7	5.0
130°-140°	26.9	3.9
140°-150°	18.9	2.7
150°-160°	11.6	1.7
160°-170°	5.3	0.8
170°-180°	0.9	0.1
0°-30°	154.3	22.2
0°-40°	202.2	29.1
0°-60°	306.6	44.1
0°-90°	461.9	66.4
90°-120°	135.0	19.4
90°-150°	215.4	31.0
90°-180°	233.0	33.5
0°-180°	695.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	664	
5°	743	58
15°	171	48
25°	102	48
35°	76	48
45°	66	51
55°	59	53
65°	55	54
75°	50	53
85°	44	36
90°	44	24
95°	44	36
105°	44	46
115°	42	41
125°	39	35
135°	35	27
145°	30	19
155°	25	12
165°	19	5
175°	7	1
180°	2	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	664.4
2.5°	721.4
5°	743.1
7.5°	705.5
10°	231.4
12.5°	189.1
15°	170.9
17.5°	153.9
20°	133.3
22.5°	114.5
25°	101.6
27.5°	92.8
30°	85.2
32.5°	80.5
35°	75.8
37.5°	72.8
40°	69.9
42.5°	67.6
45°	65.8
47.5°	64.0
50°	62.3
52.5°	61.1
55°	59.3
57.5°	58.2
60°	57.0
62.5°	55.8
65°	54.6
67.5°	53.5
70°	52.3
72.5°	51.7
75°	49.9
77.5°	48.8
80°	46.4
82.5°	44.6
85°	44.1
87.5°	43.5
90°	43.5
92.5°	43.5
95°	44.1
97.5°	44.1
100°	43.5
102.5°	43.5
105°	43.5
107.5°	42.9
110°	42.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	42.3
115°	41.7
117.5°	41.1
120°	40.5
122.5°	39.4
125°	38.8
127.5°	37.6
130°	37.0
132.5°	35.8
135°	34.7
137.5°	33.5
140°	32.3
142.5°	31.1
145°	30.0
147.5°	28.8
150°	27.6
152.5°	26.4
155°	24.7
157.5°	23.5
160°	21.7
162.5°	20.6
165°	18.8
167.5°	16.4
170°	13.5
172.5°	10.6
175°	7.0
177.5°	3.5
180°	1.8

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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	8.5	9.6	9.3	10.4	11.4	8.5	9.6	9.3	10.4	11.4
	3H	10.9	11.9	11.8	12.8	13.8	10.9	11.9	11.8	12.8	13.8
	4H	12.1	13.1	12.9	13.9	14.9	12.1	13.1	12.9	13.9	14.9
	6H	13.2	14.1	14.1	14.9	16.0	13.2	14.1	14.1	14.9	16.0
	8H	13.7	14.6	14.6	15.4	16.5	13.7	14.6	14.6	15.4	16.5
	12H	14.2	15.0	15.1	15.9	17.0	14.2	15.0	15.1	15.9	17.0
4H	2H	9.1	10.1	9.9	10.9	12.0	9.1	10.1	9.9	10.9	12.0
	3H	11.8	12.6	12.6	13.5	14.5	11.8	12.6	12.6	13.5	14.5
	4H	13.1	13.9	14.0	14.7	15.8	13.1	13.9	14.0	14.7	15.8
	6H	14.4	15.0	15.2	15.9	17.0	14.4	15.0	15.2	15.9	17.0
	8H	15.0	15.6	15.8	16.5	17.6	15.0	15.6	15.8	16.5	17.6
	12H	15.6	16.1	16.5	17.1	18.2	15.6	16.1	16.5	17.1	18.2
8H	4H	13.5	14.2	14.4	15.0	16.2	13.5	14.2	14.4	15.0	16.2
	6H	15.0	15.5	15.9	16.5	17.6	15.0	15.5	15.9	16.5	17.6
	8H	15.7	16.2	16.6	17.1	18.2	15.7	16.2	16.6	17.1	18.2
	12H	16.5	16.9	17.4	17.8	19.0	16.5	16.9	17.4	17.8	19.0
12H	4H	13.6	14.2	14.5	15.1	16.2	13.6	14.2	14.5	15.1	16.2
	6H	15.1	15.6	16.0	16.5	17.7	15.1	15.6	16.0	16.5	17.7
	8H	15.9	16.4	16.8	17.3	18.5	15.9	16.4	16.8	17.3	18.5

(END OF REPORT)