

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: P1245357

Luminaire Tested: PRLX-UNA-L-935-27L-U-OW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-L-935-27L-U-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE
LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

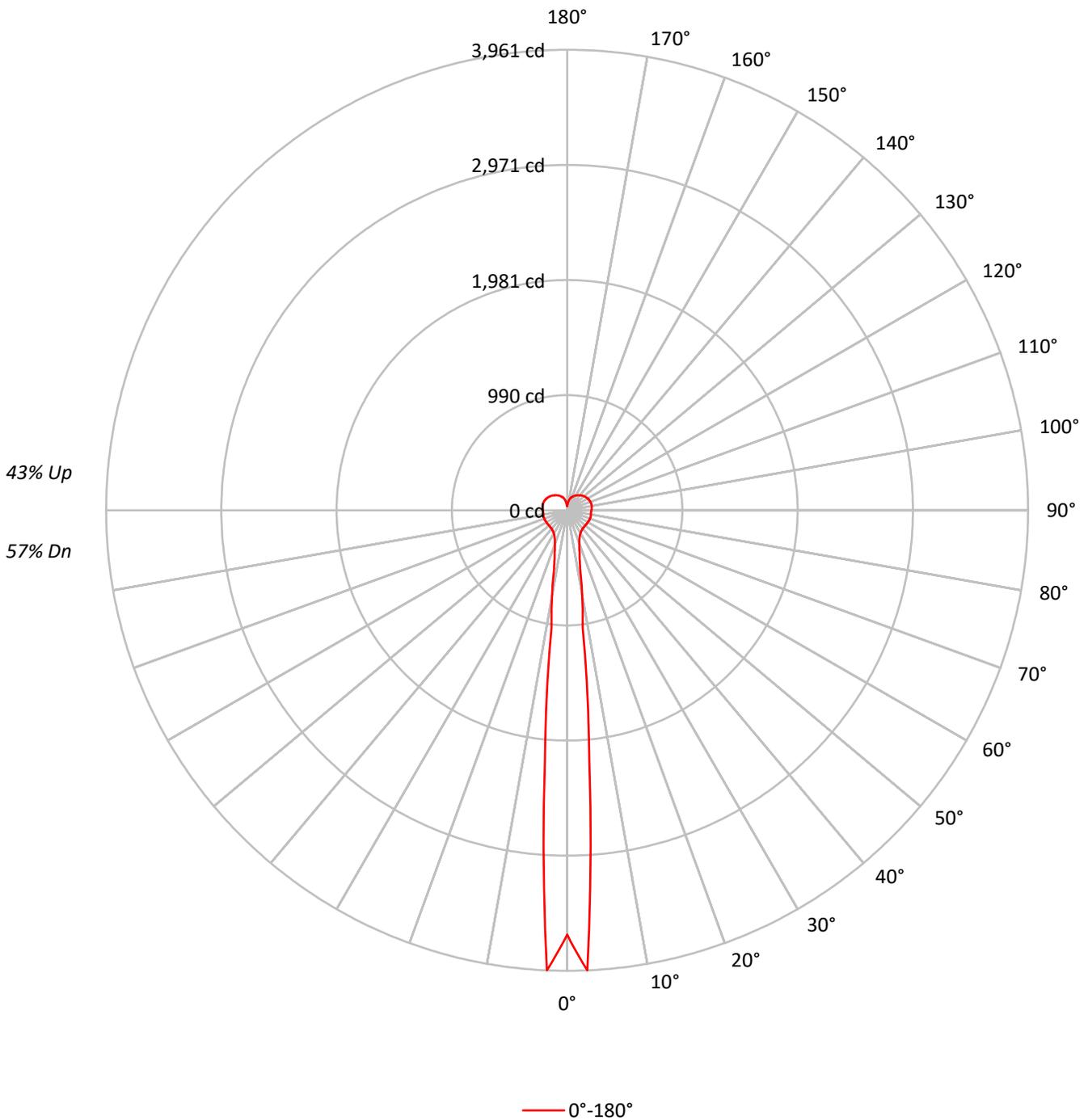
Lumens per Lamp: N/A
Luminaire Lumens: 2714.0 lumens
Efficiency: N/A
Efficacy: 39.1 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 69.4
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	109	109	109	109	101	101	101	101	87	87	87		74	74	74		62	62	62	57
1	96	90	85	80	88	83	79	75	71	68	64		60	57	55		49	47	46	40
2	86	77	70	63	80	72	65	59	61	56	51		51	47	44		42	39	37	32
3	79	68	59	52	72	63	55	49	54	48	43		45	40	37		37	34	31	27
4	72	60	51	44	66	56	48	42	48	41	37		40	35	31		33	30	27	23
5	66	54	45	38	61	50	42	36	43	37	32		36	31	28		30	27	23	20
6	61	48	40	34	57	45	37	32	39	33	28		33	28	25		28	24	21	18
7	57	44	36	30	53	41	34	28	36	30	25		31	26	22		26	22	19	17
8	53	41	33	27	49	38	31	26	33	27	23		29	24	20		24	21	18	15
9	50	37	30	25	46	35	28	23	31	25	21		27	22	19		23	19	16	14
10	47	35	27	22	44	33	26	21	29	23	19		25	21	17		22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115479
5°	54122
10°	15214
15°	7148
20°	4710
25°	3499
30°	2879
35°	2514
40°	2269
45°	2130
50°	2030
55°	1976
60°	1940
65°	1931
70°	1927
75°	1936
80°	1915
85°	1943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2130 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	6.0
10°-20°	122.0	4.5
20°-30°	118.9	4.4
30°-40°	135.3	5.0
40°-50°	158.1	5.8
50°-60°	183.3	6.8
60°-70°	206.0	7.6
70°-80°	221.3	8.2
80°-90°	225.9	8.3
90°-100°	231.7	8.5
100°-110°	226.7	8.4
110°-120°	207.2	7.6
120°-130°	176.6	6.5
130°-140°	139.3	5.1
140°-150°	99.6	3.7
150°-160°	62.7	2.3
160°-170°	30.5	1.1
170°-180°	6.3	0.2
0°-30°	403.6	14.9
0°-40°	538.9	19.9
0°-60°	880.3	32.4
0°-90°	1533.4	56.5
90°-120°	665.6	24.5
90°-150°	1081.2	39.8
90°-180°	1181.0	43.5
0°-180°	2714.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3650	
5°	2194	163
15°	410	122
25°	254	119
35°	215	135
45°	204	158
55°	204	183
65°	208	206
75°	210	221
85°	206	169
90°	209	115
95°	212	174
105°	215	227
115°	209	207
125°	197	177
135°	180	139
145°	158	100
155°	135	63
165°	107	30
175°	56	6
180°	36	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3650.2
2.5°	3961.0
5°	2194.2
7.5°	1017.6
10°	748.0
12.5°	514.9
15°	410.4
17.5°	349.7
20°	307.2
22.5°	275.6
25°	253.8
27.5°	239.2
30°	228.3
32.5°	221.0
35°	214.9
37.5°	210.1
40°	206.4
42.5°	205.2
45°	204.0
47.5°	202.8
50°	202.8
52.5°	204.0
55°	204.0
57.5°	205.2
60°	205.2
62.5°	206.4
65°	207.6
67.5°	208.9
70°	208.9
72.5°	210.1
75°	210.1
77.5°	208.9
80°	206.4
82.5°	206.4
85°	206.4
87.5°	207.6
90°	208.9
92.5°	211.3
95°	212.5
97.5°	213.7
100°	214.9
102.5°	214.9
105°	214.9
107.5°	213.7
110°	212.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	211.3
115°	208.9
117.5°	206.4
120°	204.0
122.5°	200.4
125°	196.7
127.5°	193.1
130°	189.4
132.5°	184.6
135°	179.7
137.5°	174.9
140°	168.8
142.5°	163.9
145°	157.9
147.5°	153.0
150°	146.9
152.5°	140.9
155°	134.8
157.5°	128.7
160°	121.4
162.5°	115.4
165°	106.9
167.5°	97.1
170°	85.0
172.5°	71.6
175°	55.9
177.5°	41.3
180°	36.4



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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	9.8	10.8	10.7	11.7	12.9	9.8	10.8	10.7	11.7	12.9
	3H	12.6	13.6	13.5	14.5	15.7	12.6	13.6	13.5	14.5	15.7
	4H	14.0	14.9	14.9	15.8	17.0	14.0	14.9	14.9	15.8	17.0
	6H	15.3	16.2	16.3	17.1	18.3	15.3	16.2	16.3	17.1	18.3
	8H	16.0	16.8	16.9	17.7	18.9	16.0	16.8	16.9	17.7	18.9
	12H	16.6	17.4	17.5	18.3	19.6	16.6	17.4	17.5	18.3	19.6
4H	2H	10.5	11.4	11.4	12.3	13.5	10.5	11.4	11.4	12.3	13.5
	3H	13.5	14.3	14.5	15.3	16.5	13.5	14.3	14.5	15.3	16.5
	4H	15.1	15.8	16.0	16.7	18.0	15.1	15.8	16.0	16.7	18.0
	6H	16.6	17.2	17.5	18.2	19.4	16.6	17.2	17.5	18.2	19.4
	8H	17.3	17.9	18.3	18.9	20.1	17.3	17.9	18.3	18.9	20.1
	12H	18.0	18.6	19.0	19.6	20.8	18.0	18.6	19.0	19.6	20.8
8H	4H	15.6	16.2	16.5	17.1	18.4	15.6	16.2	16.5	17.1	18.4
	6H	17.3	17.8	18.2	18.8	20.0	17.3	17.8	18.2	18.8	20.0
	8H	18.2	18.6	19.1	19.6	20.9	18.2	18.6	19.1	19.6	20.9
	12H	19.1	19.5	20.0	20.5	21.8	19.1	19.5	20.0	20.5	21.8
12H	4H	15.7	16.2	16.6	17.2	18.5	15.7	16.2	16.6	17.2	18.5
	6H	17.4	17.9	18.4	18.9	20.2	17.4	17.9	18.4	18.9	20.2
	8H	18.4	18.8	19.4	19.8	21.1	18.4	18.8	19.4	19.8	21.1

(END OF REPORT)