

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: P1245358

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245358
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-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

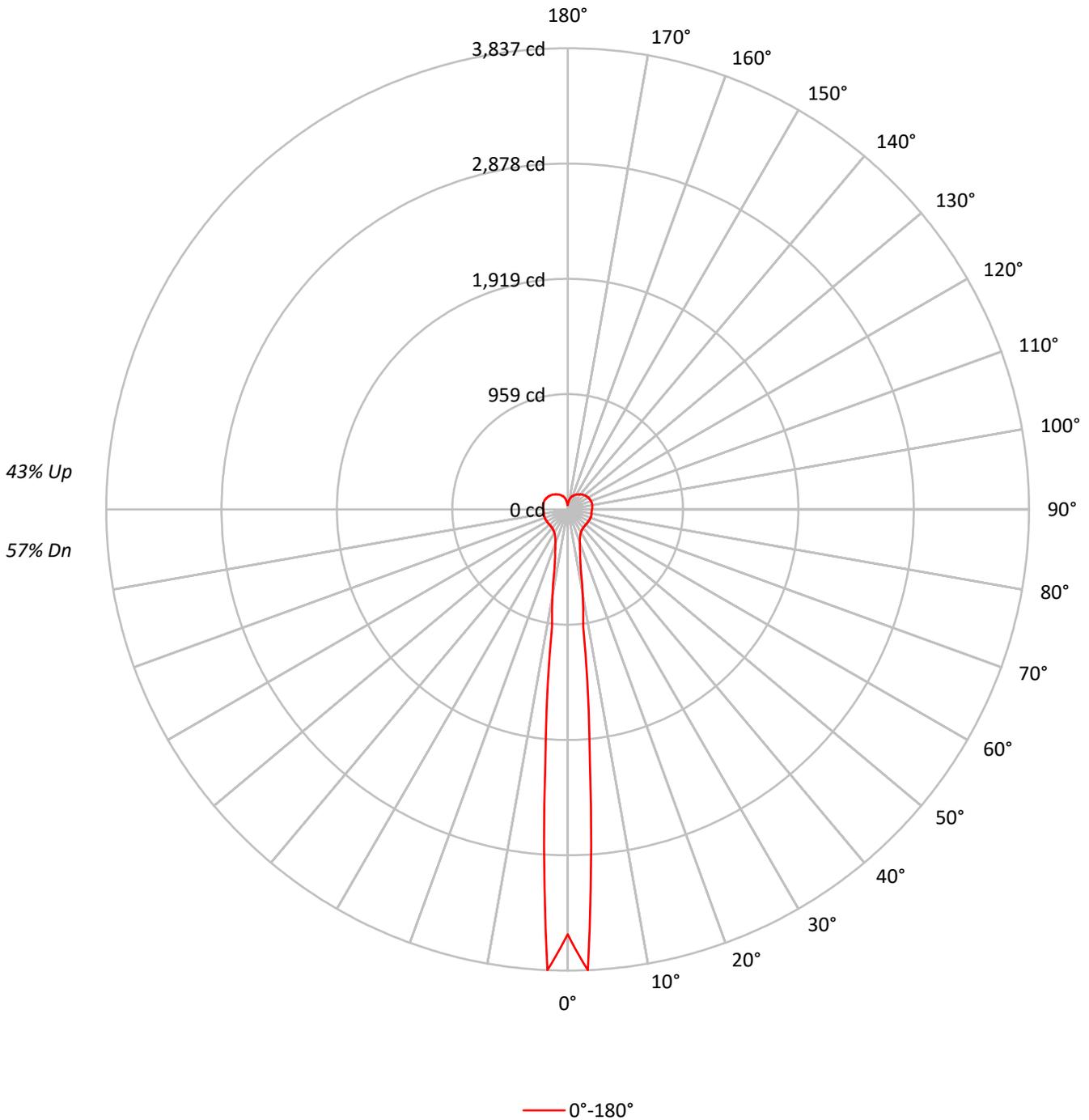
Lumens per Lamp: N/A
Luminaire Lumens: 2629.0 lumens
Efficiency: N/A
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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°	111863
5°	52428
10°	14738
15°	6925
20°	4562
25°	3388
30°	2788
35°	2436
40°	2198
45°	2063
50°	1966
55°	1914
60°	1880
65°	1871
70°	1866
75°	1875
80°	1856
85°	1883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	6.0
10°-20°	118.2	4.5
20°-30°	115.2	4.4
30°-40°	131.1	5.0
40°-50°	153.1	5.8
50°-60°	177.6	6.8
60°-70°	199.5	7.6
70°-80°	214.3	8.2
80°-90°	218.8	8.3
90°-100°	224.4	8.5
100°-110°	219.6	8.4
110°-120°	200.7	7.6
120°-130°	171.1	6.5
130°-140°	134.9	5.1
140°-150°	96.5	3.7
150°-160°	60.7	2.3
160°-170°	29.5	1.1
170°-180°	6.1	0.2
0°-30°	390.9	14.9
0°-40°	522.0	19.9
0°-60°	852.7	32.4
0°-90°	1485.4	56.5
90°-120°	644.8	24.5
90°-150°	1047.3	39.8
90°-180°	1144.0	43.5
0°-180°	2629.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3536	
5°	2126	158
15°	398	118
25°	246	115
35°	208	131
45°	198	153
55°	198	178
65°	201	200
75°	204	214
85°	200	164
90°	202	111
95°	206	169
105°	208	220
115°	202	201
125°	191	171
135°	174	135
145°	153	96
155°	131	61
165°	104	30
175°	54	6
180°	35	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3535.9
2.5°	3837.0
5°	2125.5
7.5°	985.7
10°	724.6
12.5°	498.7
15°	397.6
17.5°	338.8
20°	297.6
22.5°	267.0
25°	245.8
27.5°	231.7
30°	221.1
32.5°	214.1
35°	208.2
37.5°	203.5
40°	200.0
42.5°	198.8
45°	197.6
47.5°	196.4
50°	196.4
52.5°	197.6
55°	197.6
57.5°	198.8
60°	198.8
62.5°	200.0
65°	201.1
67.5°	202.3
70°	202.3
72.5°	203.5
75°	203.5
77.5°	202.3
80°	200.0
82.5°	200.0
85°	200.0
87.5°	201.1
90°	202.3
92.5°	204.7
95°	205.8
97.5°	207.0
100°	208.2
102.5°	208.2
105°	208.2
107.5°	207.0
110°	205.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	204.7
115°	202.3
117.5°	200.0
120°	197.6
122.5°	194.1
125°	190.6
127.5°	187.0
130°	183.5
132.5°	178.8
135°	174.1
137.5°	169.4
140°	163.5
142.5°	158.8
145°	152.9
147.5°	148.2
150°	142.3
152.5°	136.4
155°	130.6
157.5°	124.7
160°	117.6
162.5°	111.7
165°	103.5
167.5°	94.1
170°	82.3
172.5°	69.4
175°	54.1
177.5°	40.0
180°	35.3



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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	9.7	10.7	10.6	11.6	12.8	9.7	10.7	10.6	11.6	12.8
	3H	12.5	13.4	13.4	14.4	15.6	12.5	13.4	13.4	14.4	15.6
	4H	13.9	14.8	14.8	15.7	16.9	13.9	14.8	14.8	15.7	16.9
	6H	15.2	16.1	16.2	17.0	18.2	15.2	16.1	16.2	17.0	18.2
	8H	15.9	16.7	16.8	17.6	18.8	15.9	16.7	16.8	17.6	18.8
	12H	16.5	17.3	17.4	18.2	19.5	16.5	17.3	17.4	18.2	19.5
4H	2H	10.4	11.3	11.3	12.2	13.4	10.4	11.3	11.3	12.2	13.4
	3H	13.4	14.2	14.4	15.2	16.4	13.4	14.2	14.4	15.2	16.4
	4H	15.0	15.7	15.9	16.6	17.9	15.0	15.7	15.9	16.6	17.9
	6H	16.5	17.1	17.4	18.1	19.3	16.5	17.1	17.4	18.1	19.3
	8H	17.2	17.8	18.1	18.8	20.0	17.2	17.8	18.1	18.8	20.0
	12H	17.9	18.5	18.9	19.5	20.7	17.9	18.5	18.9	19.5	20.7
8H	4H	15.5	16.1	16.4	17.0	18.3	15.5	16.1	16.4	17.0	18.3
	6H	17.2	17.7	18.1	18.7	19.9	17.2	17.7	18.1	18.7	19.9
	8H	18.0	18.5	19.0	19.5	20.8	18.0	18.5	19.0	19.5	20.8
	12H	19.0	19.4	19.9	20.4	21.7	19.0	19.4	19.9	20.4	21.7
12H	4H	15.6	16.1	16.5	17.1	18.3	15.6	16.1	16.5	17.1	18.3
	6H	17.3	17.8	18.3	18.8	20.1	17.3	17.8	18.3	18.8	20.1
	8H	18.3	18.7	19.3	19.7	21.0	18.3	18.7	19.3	19.7	21.0

(END OF REPORT)