

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: P1245334

Luminaire Tested: PRLX-UNA-L-930-27L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245334
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-930-27L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, PINSTRIPE SHADE TEXTURE LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

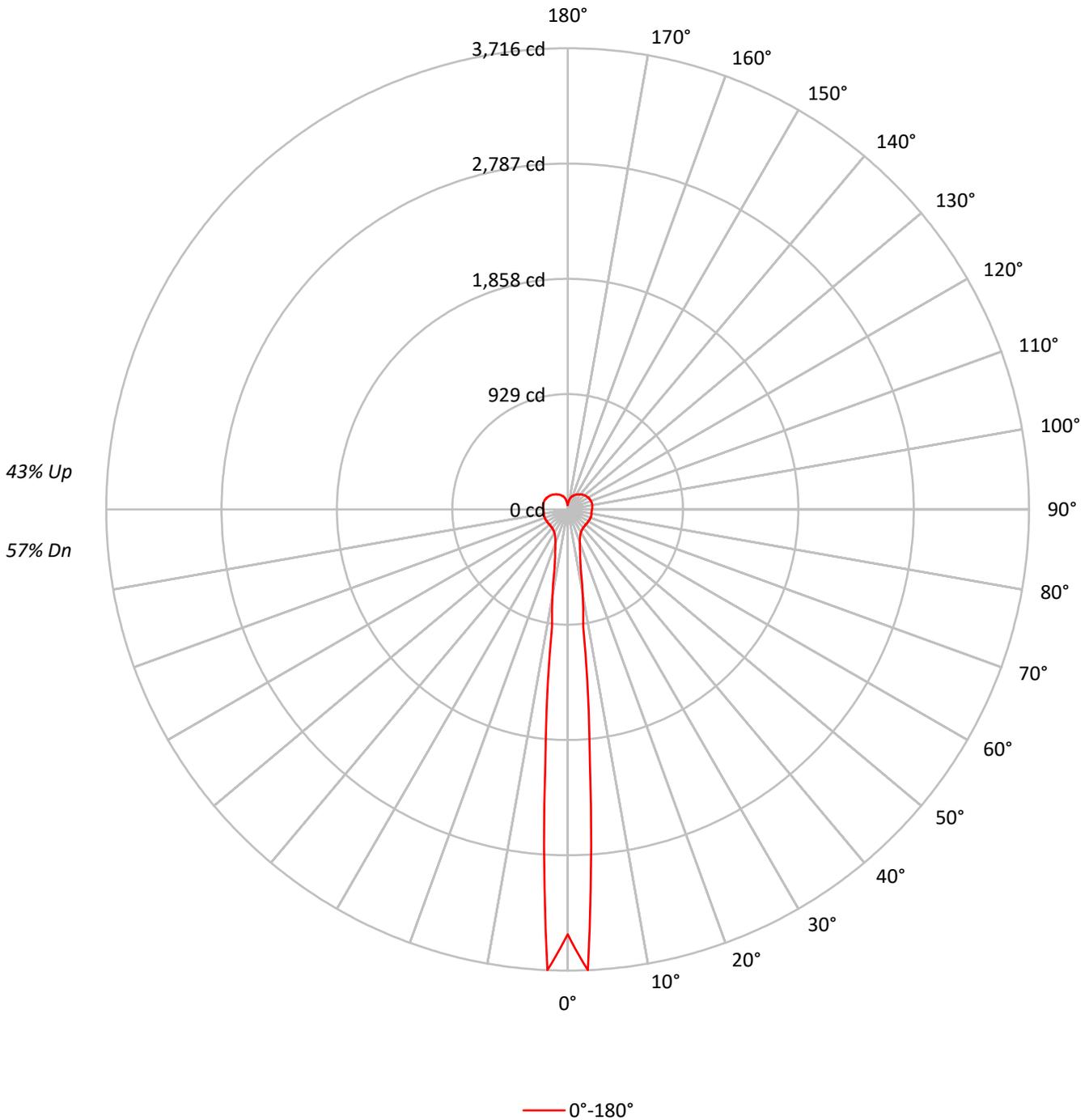
Lumens per Lamp: N/A
Luminaire Lumens: 2546.0 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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°	108329
5°	50773
10°	14272
15°	6706
20°	4418
25°	3282
30°	2701
35°	2359
40°	2129
45°	1998
50°	1904
55°	1854
60°	1820
65°	1812
70°	1807
75°	1816
80°	1797
85°	1823

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1998 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	6.0
10°-20°	114.5	4.5
20°-30°	111.5	4.4
30°-40°	127.0	5.0
40°-50°	148.3	5.8
50°-60°	172.0	6.8
60°-70°	193.2	7.6
70°-80°	207.6	8.2
80°-90°	211.9	8.3
90°-100°	217.3	8.5
100°-110°	212.7	8.4
110°-120°	194.4	7.6
120°-130°	165.7	6.5
130°-140°	130.6	5.1
140°-150°	93.5	3.7
150°-160°	58.8	2.3
160°-170°	28.6	1.1
170°-180°	5.9	0.2
0°-30°	378.6	14.9
0°-40°	505.6	19.9
0°-60°	825.8	32.4
0°-90°	1438.6	56.5
90°-120°	624.4	24.5
90°-150°	1014.2	39.8
90°-180°	1107.0	43.5
0°-180°	2546.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3424	
5°	2058	153
15°	385	114
25°	238	112
35°	202	127
45°	191	148
55°	191	172
65°	195	193
75°	197	208
85°	194	158
90°	196	108
95°	199	163
105°	202	213
115°	196	194
125°	184	166
135°	169	131
145°	148	93
155°	126	59
165°	100	29
175°	52	6
180°	34	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3424.2
2.5°	3715.8
5°	2058.4
7.5°	954.6
10°	701.7
12.5°	483.0
15°	385.0
17.5°	328.1
20°	288.2
22.5°	258.6
25°	238.1
27.5°	224.4
30°	214.2
32.5°	207.3
35°	201.6
37.5°	197.1
40°	193.7
42.5°	192.5
45°	191.4
47.5°	190.2
50°	190.2
52.5°	191.4
55°	191.4
57.5°	192.5
60°	192.5
62.5°	193.7
65°	194.8
67.5°	195.9
70°	195.9
72.5°	197.1
75°	197.1
77.5°	195.9
80°	193.7
82.5°	193.7
85°	193.7
87.5°	194.8
90°	195.9
92.5°	198.2
95°	199.3
97.5°	200.5
100°	201.6
102.5°	201.6
105°	201.6
107.5°	200.5
110°	199.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	198.2
115°	195.9
117.5°	193.7
120°	191.4
122.5°	188.0
125°	184.5
127.5°	181.1
130°	177.7
132.5°	173.1
135°	168.6
137.5°	164.0
140°	158.3
142.5°	153.8
145°	148.1
147.5°	143.5
150°	137.8
152.5°	132.1
155°	126.4
157.5°	120.7
160°	113.9
162.5°	108.2
165°	100.2
167.5°	91.1
170°	79.7
172.5°	67.2
175°	52.4
177.5°	38.7
180°	34.2



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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	10.6	10.4	11.5	12.7	9.6	10.6	10.4	11.5	12.7
	3H	12.4	13.3	13.3	14.3	15.4	12.4	13.3	13.3	14.3	15.4
	4H	13.8	14.7	14.7	15.6	16.8	13.8	14.7	14.7	15.6	16.8
	6H	15.1	16.0	16.0	16.9	18.1	15.1	16.0	16.0	16.9	18.1
	8H	15.8	16.6	16.7	17.5	18.7	15.8	16.6	16.7	17.5	18.7
	12H	16.4	17.2	17.3	18.1	19.3	16.4	17.2	17.3	18.1	19.3
4H	2H	10.3	11.2	11.2	12.1	13.3	10.3	11.2	11.2	12.1	13.3
	3H	13.3	14.1	14.2	15.0	16.3	13.3	14.1	14.2	15.0	16.3
	4H	14.9	15.6	15.8	16.5	17.8	14.9	15.6	15.8	16.5	17.8
	6H	16.4	17.0	17.3	18.0	19.2	16.4	17.0	17.3	18.0	19.2
	8H	17.1	17.7	18.0	18.7	19.9	17.1	17.7	18.0	18.7	19.9
	12H	17.8	18.4	18.8	19.4	20.6	17.8	18.4	18.8	19.4	20.6
8H	4H	15.3	15.9	16.3	16.9	18.2	15.3	15.9	16.3	16.9	18.2
	6H	17.1	17.6	18.0	18.6	19.8	17.1	17.6	18.0	18.6	19.8
	8H	17.9	18.4	18.9	19.4	20.7	17.9	18.4	18.9	19.4	20.7
	12H	18.8	19.3	19.8	20.2	21.6	18.8	19.3	19.8	20.2	21.6
12H	4H	15.4	16.0	16.4	17.0	18.2	15.4	16.0	16.4	17.0	18.2
	6H	17.2	17.7	18.2	18.7	20.0	17.2	17.7	18.2	18.7	20.0
	8H	18.2	18.6	19.2	19.6	20.9	18.2	18.6	19.2	19.6	20.9

(END OF REPORT)