

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: P1245382

Luminaire Tested: PRLX-UNA-L-940-27L-U-PS

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245382
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-940-27L-U-PS
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, PINSTRIPE SHADE TEXTURE
LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

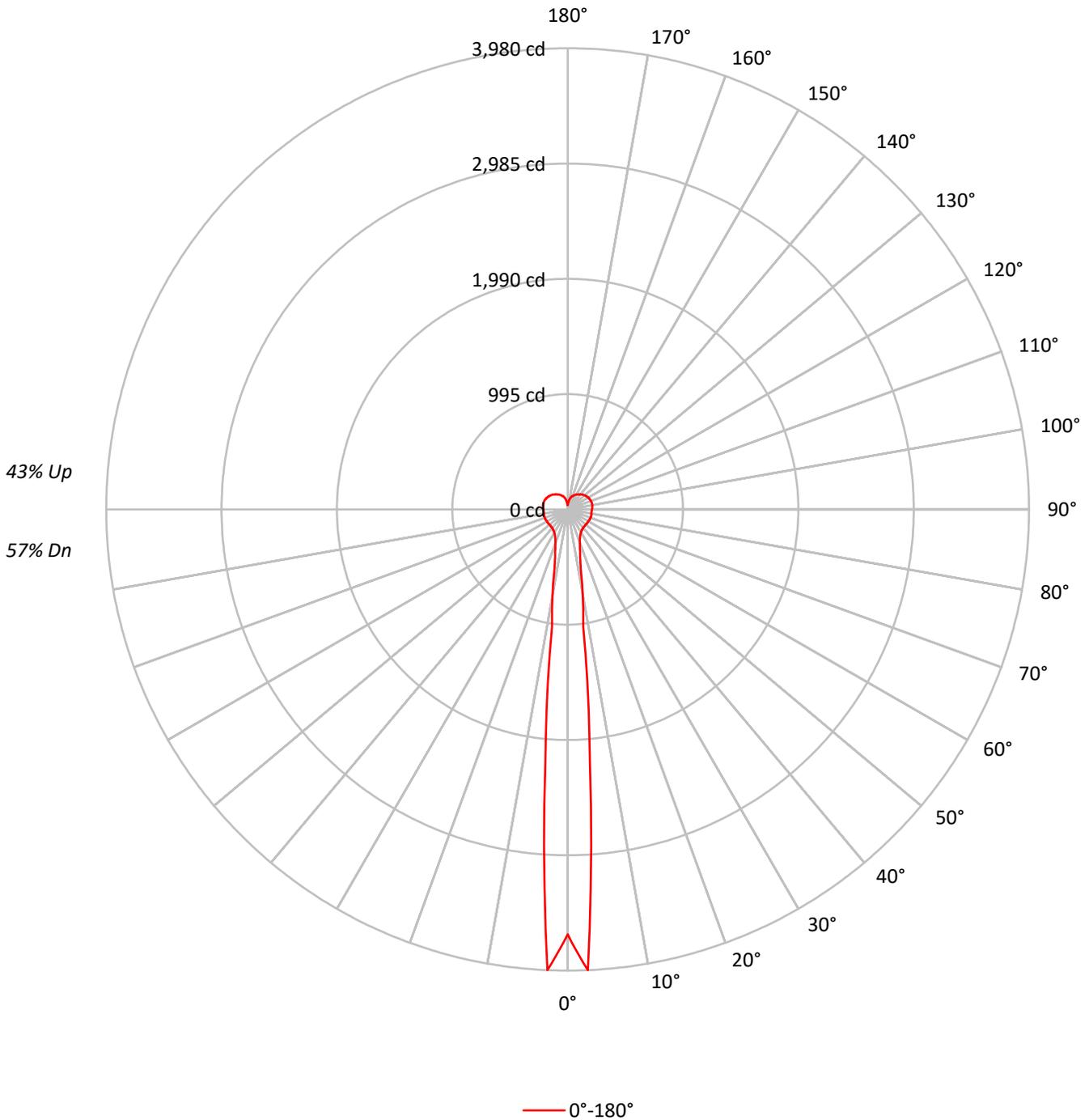
Lumens per Lamp: N/A
Luminaire Lumens: 2727.1 lumens
Efficiency: N/A
Efficacy: 39.3 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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°	116033
5°	54381
10°	15287
15°	7183
20°	4733
25°	3515
30°	2893
35°	2527
40°	2280
45°	2140
50°	2040
55°	1986
60°	1950
65°	1941
70°	1936
75°	1945
80°	1924
85°	1952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2140 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	6.0
10°-20°	122.6	4.5
20°-30°	119.5	4.4
30°-40°	136.0	5.0
40°-50°	158.8	5.8
50°-60°	184.2	6.8
60°-70°	207.0	7.6
70°-80°	222.4	8.2
80°-90°	227.0	8.3
90°-100°	232.8	8.5
100°-110°	227.8	8.4
110°-120°	208.2	7.6
120°-130°	177.5	6.5
130°-140°	140.0	5.1
140°-150°	100.1	3.7
150°-160°	62.9	2.3
160°-170°	30.6	1.1
170°-180°	6.3	0.2
0°-30°	405.5	14.9
0°-40°	541.5	19.9
0°-60°	884.6	32.4
0°-90°	1540.8	56.5
90°-120°	668.9	24.5
90°-150°	1086.4	39.8
90°-180°	1186.0	43.5
0°-180°	2727.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3668	
5°	2205	163
15°	412	123
25°	255	119
35°	216	136
45°	205	159
55°	205	184
65°	209	207
75°	211	222
85°	207	170
90°	210	115
95°	214	175
105°	216	228
115°	210	208
125°	198	177
135°	181	140
145°	159	100
155°	135	63
165°	107	31
175°	56	6
180°	37	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3667.7
2.5°	3980.0
5°	2204.7
7.5°	1022.5
10°	751.6
12.5°	517.3
15°	412.4
17.5°	351.4
20°	308.7
22.5°	277.0
25°	255.0
27.5°	240.4
30°	229.4
32.5°	222.1
35°	216.0
37.5°	211.1
40°	207.4
42.5°	206.2
45°	205.0
47.5°	203.8
50°	203.8
52.5°	205.0
55°	205.0
57.5°	206.2
60°	206.2
62.5°	207.4
65°	208.6
67.5°	209.9
70°	209.9
72.5°	211.1
75°	211.1
77.5°	209.9
80°	207.4
82.5°	207.4
85°	207.4
87.5°	208.6
90°	209.9
92.5°	212.3
95°	213.5
97.5°	214.7
100°	216.0
102.5°	216.0
105°	216.0
107.5°	214.7
110°	213.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	212.3
115°	209.9
117.5°	207.4
120°	205.0
122.5°	201.3
125°	197.7
127.5°	194.0
130°	190.3
132.5°	185.5
135°	180.6
137.5°	175.7
140°	169.6
142.5°	164.7
145°	158.6
147.5°	153.7
150°	147.6
152.5°	141.5
155°	135.4
157.5°	129.3
160°	122.0
162.5°	115.9
165°	107.4
167.5°	97.6
170°	85.4
172.5°	72.0
175°	56.1
177.5°	41.5
180°	36.6



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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	15.4	16.2	16.3	17.1	18.3	15.4	16.2	16.3	17.1	18.3
	8H	16.0	16.8	16.9	17.7	19.0	16.0	16.8	16.9	17.7	19.0
	12H	16.6	17.4	17.6	18.3	19.6	16.6	17.4	17.6	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	13.6	14.3	14.5	15.3	16.5	13.6	14.3	14.5	15.3	16.5
	4H	15.1	15.8	16.0	16.8	18.0	15.1	15.8	16.0	16.8	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	20.2	17.3	17.9	18.3	18.9	20.2
	12H	18.1	18.6	19.0	19.6	20.9	18.1	18.6	19.0	19.6	20.9
8H	4H	15.6	16.2	16.5	17.2	18.4	15.6	16.2	16.5	17.2	18.4
	6H	17.3	17.8	18.3	18.8	20.1	17.3	17.8	18.3	18.8	20.1
	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	20.1	20.5	21.8	19.1	19.5	20.1	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	17.5	17.9	18.4	18.9	20.2	17.5	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)