

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: P1245308

Luminaire Tested: PRLX-UNA-L-927-27L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245308
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-927-27L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL LINES SHADE TEXTUF
LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

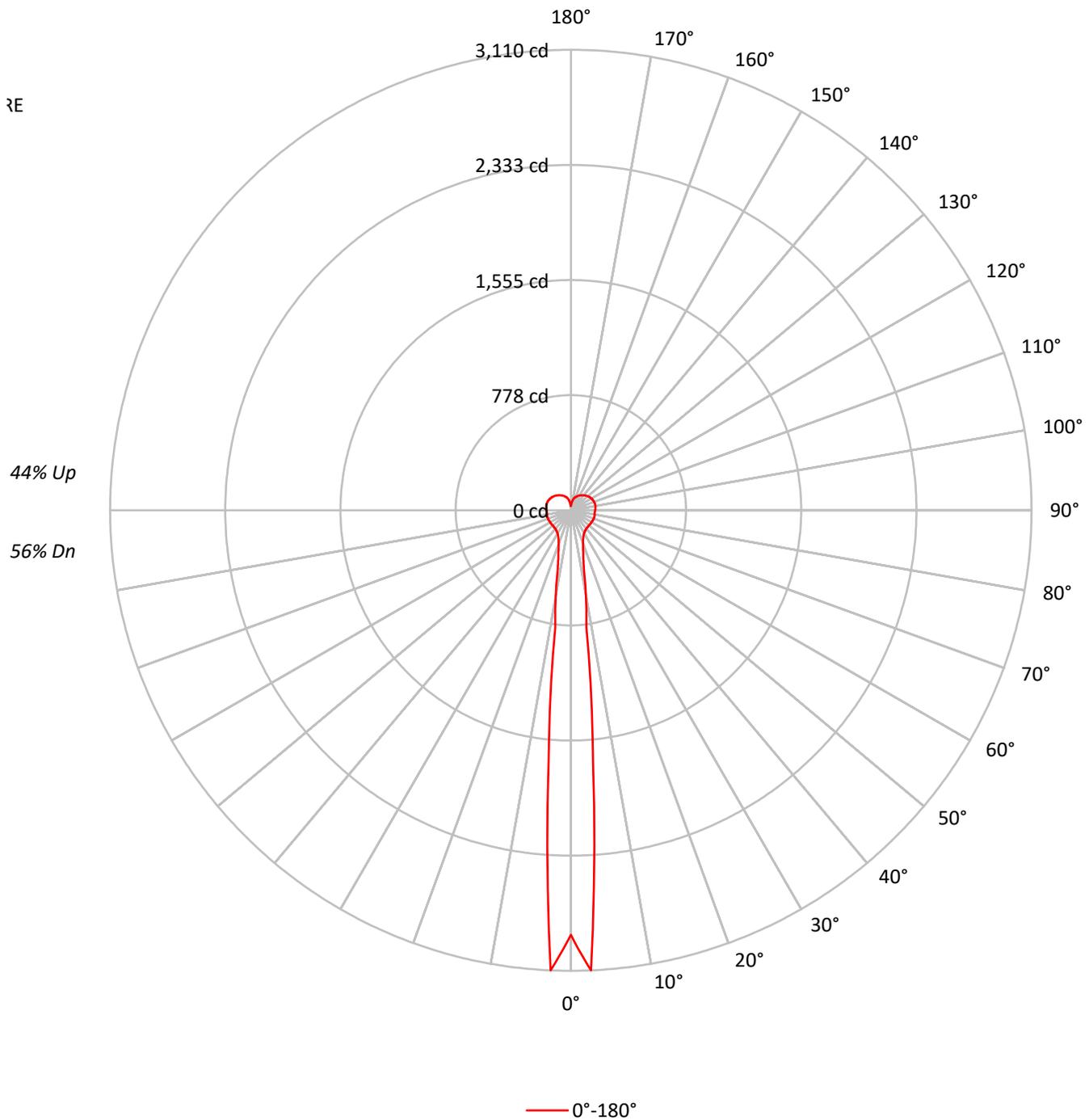
Lumens per Lamp: N/A
Luminaire Lumens: 2131.0 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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	56
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°	90673
5°	42497
10°	11945
15°	5614
20°	3698
25°	2747
30°	2260
35°	1975
40°	1782
45°	1672
50°	1594
55°	1552
60°	1523
65°	1516
70°	1513
75°	1520
80°	1504
85°	1526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	6.0
10°-20°	95.8	4.5
20°-30°	93.3	4.4
30°-40°	106.2	5.0
40°-50°	124.1	5.8
50°-60°	143.9	6.8
60°-70°	161.7	7.6
70°-80°	173.7	8.2
80°-90°	177.4	8.3
90°-100°	181.9	8.5
100°-110°	178.1	8.4
110°-120°	162.7	7.6
120°-130°	138.7	6.5
130°-140°	109.3	5.1
140°-150°	78.2	3.7
150°-160°	49.2	2.3
160°-170°	23.9	1.1
170°-180°	4.9	0.2
0°-30°	316.9	14.9
0°-40°	423.1	19.9
0°-60°	691.2	32.4
0°-90°	1204.0	56.5
90°-120°	522.7	24.5
90°-150°	848.9	39.8
90°-180°	927.0	43.5
0°-180°	2131.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2866	
5°	1723	128
15°	322	96
25°	199	93
35°	169	106
45°	160	124
55°	160	144
65°	163	162
75°	165	174
85°	162	133
90°	164	90
95°	167	137
105°	169	178
115°	164	163
125°	154	139
135°	141	109
145°	124	78
155°	106	49
165°	84	24
175°	44	5
180°	29	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2866.1
2.5°	3110.2
5°	1722.9
7.5°	799.0
10°	587.3
12.5°	404.3
15°	322.3
17.5°	274.6
20°	241.2
22.5°	216.4
25°	199.3
27.5°	187.8
30°	179.2
32.5°	173.5
35°	168.8
37.5°	164.9
40°	162.1
42.5°	161.1
45°	160.2
47.5°	159.2
50°	159.2
52.5°	160.2
55°	160.2
57.5°	161.1
60°	161.1
62.5°	162.1
65°	163.0
67.5°	164.0
70°	164.0
72.5°	164.9
75°	164.9
77.5°	164.0
80°	162.1
82.5°	162.1
85°	162.1
87.5°	163.0
90°	164.0
92.5°	165.9
95°	166.9
97.5°	167.8
100°	168.8
102.5°	168.8
105°	168.8
107.5°	167.8
110°	166.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	165.9
115°	164.0
117.5°	162.1
120°	160.2
122.5°	157.3
125°	154.5
127.5°	151.6
130°	148.7
132.5°	144.9
135°	141.1
137.5°	137.3
140°	132.5
142.5°	128.7
145°	123.9
147.5°	120.1
150°	115.4
152.5°	110.6
155°	105.8
157.5°	101.1
160°	95.3
162.5°	90.6
165°	83.9
167.5°	76.3
170°	66.7
172.5°	56.3
175°	43.9
177.5°	32.4
180°	28.6



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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	8.9	10.0	9.8	10.9	12.0	8.9	10.0	9.8	10.9	12.0
	3H	11.8	12.7	12.7	13.6	14.8	11.8	12.7	12.7	13.6	14.8
	4H	13.2	14.1	14.1	15.0	16.2	13.2	14.1	14.1	15.0	16.2
	6H	14.5	15.3	15.4	16.3	17.5	14.5	15.3	15.4	16.3	17.5
	8H	15.1	15.9	16.1	16.9	18.1	15.1	15.9	16.1	16.9	18.1
	12H	15.8	16.5	16.7	17.5	18.7	15.8	16.5	16.7	17.5	18.7
4H	2H	9.7	10.6	10.6	11.5	12.7	9.7	10.6	10.6	11.5	12.7
	3H	12.7	13.5	13.6	14.4	15.6	12.7	13.5	13.6	14.4	15.6
	4H	14.2	15.0	15.2	15.9	17.1	14.2	15.0	15.2	15.9	17.1
	6H	15.7	16.4	16.7	17.4	18.6	15.7	16.4	16.7	17.4	18.6
	8H	16.5	17.1	17.4	18.0	19.3	16.5	17.1	17.4	18.0	19.3
	12H	17.2	17.8	18.2	18.7	20.0	17.2	17.8	18.2	18.7	20.0
8H	4H	14.7	15.3	15.7	16.3	17.5	14.7	15.3	15.7	16.3	17.5
	6H	16.4	16.9	17.4	18.0	19.2	16.4	16.9	17.4	18.0	19.2
	8H	17.3	17.8	18.3	18.8	20.0	17.3	17.8	18.3	18.8	20.0
	12H	18.2	18.6	19.2	19.6	20.9	18.2	18.6	19.2	19.6	20.9
12H	4H	14.8	15.4	15.8	16.4	17.6	14.8	15.4	15.8	16.4	17.6
	6H	16.6	17.1	17.6	18.1	19.4	16.6	17.1	17.6	18.1	19.4
	8H	17.6	18.0	18.5	19.0	20.3	17.6	18.0	18.5	19.0	20.3

(END OF REPORT)