

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: P1245309

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245309
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-OW
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, OPEN WEAVE SHADE TEXTURE
LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

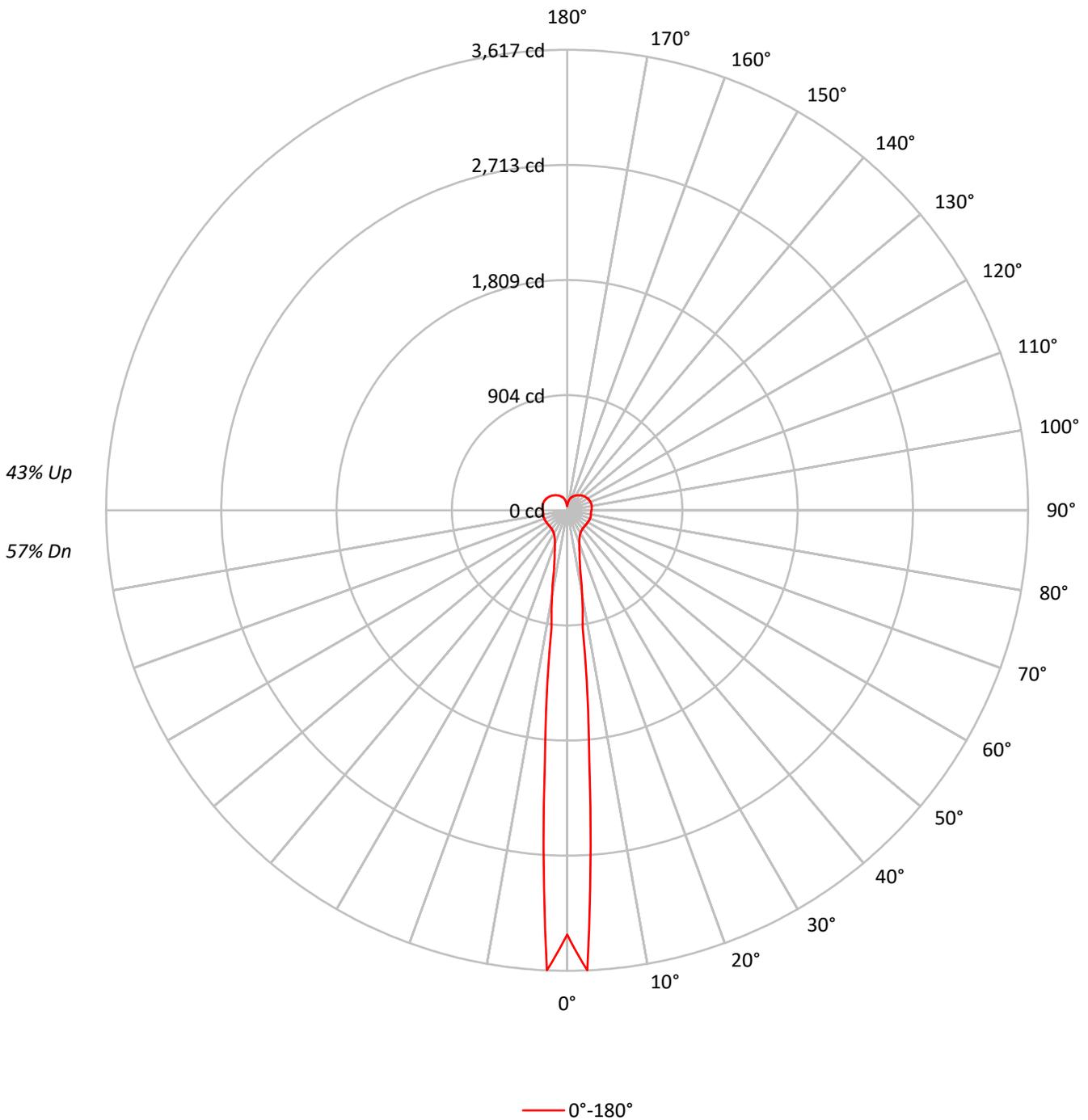
Lumens per Lamp: N/A
Luminaire Lumens: 2478.0 lumens
Efficiency: N/A
Efficacy: 35.7 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.2
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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°	105438
5°	49416
10°	13892
15°	6526
20°	4300
25°	3194
30°	2628
35°	2296
40°	2072
45°	1945
50°	1854
55°	1805
60°	1772
65°	1764
70°	1759
75°	1768
80°	1749
85°	1775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1945 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	6.0
10°-20°	111.4	4.5
20°-30°	108.5	4.4
30°-40°	123.6	5.0
40°-50°	144.3	5.8
50°-60°	167.4	6.8
60°-70°	188.1	7.6
70°-80°	202.0	8.2
80°-90°	206.3	8.3
90°-100°	211.5	8.5
100°-110°	207.0	8.4
110°-120°	189.2	7.6
120°-130°	161.3	6.5
130°-140°	127.2	5.1
140°-150°	91.0	3.7
150°-160°	57.2	2.3
160°-170°	27.8	1.1
170°-180°	5.7	0.2
0°-30°	368.5	14.9
0°-40°	492.0	19.9
0°-60°	803.8	32.4
0°-90°	1400.2	56.5
90°-120°	607.7	24.5
90°-150°	987.1	39.8
90°-180°	1078.0	43.5
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3333	
5°	2003	149
15°	375	111
25°	232	109
35°	196	124
45°	186	144
55°	186	167
65°	190	188
75°	192	202
85°	188	154
90°	191	105
95°	194	159
105°	196	207
115°	191	189
125°	180	161
135°	164	127
145°	144	91
155°	123	57
165°	98	28
175°	51	6
180°	33	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3332.8
2.5°	3616.6
5°	2003.4
7.5°	929.1
10°	683.0
12.5°	470.1
15°	374.7
17.5°	319.3
20°	280.5
22.5°	251.7
25°	231.7
27.5°	218.4
30°	208.4
32.5°	201.8
35°	196.2
37.5°	191.8
40°	188.5
42.5°	187.4
45°	186.3
47.5°	185.2
50°	185.2
52.5°	186.3
55°	186.3
57.5°	187.4
60°	187.4
62.5°	188.5
65°	189.6
67.5°	190.7
70°	190.7
72.5°	191.8
75°	191.8
77.5°	190.7
80°	188.5
82.5°	188.5
85°	188.5
87.5°	189.6
90°	190.7
92.5°	192.9
95°	194.0
97.5°	195.1
100°	196.2
102.5°	196.2
105°	196.2
107.5°	195.1
110°	194.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	192.9
115°	190.7
117.5°	188.5
120°	186.3
122.5°	182.9
125°	179.6
127.5°	176.3
130°	173.0
132.5°	168.5
135°	164.1
137.5°	159.7
140°	154.1
142.5°	149.7
145°	144.1
147.5°	139.7
150°	134.2
152.5°	128.6
155°	123.1
157.5°	117.5
160°	110.9
162.5°	105.3
165°	97.6
167.5°	88.7
170°	77.6
172.5°	65.4
175°	51.0
177.5°	37.7
180°	33.3



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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	9.5	10.5	10.4	11.4	12.6	9.5	10.5	10.4	11.4	12.6
	3H	12.3	13.2	13.2	14.2	15.4	12.3	13.2	13.2	14.2	15.4
	4H	13.7	14.6	14.6	15.5	16.7	13.7	14.6	14.6	15.5	16.7
	6H	15.0	15.9	15.9	16.8	18.0	15.0	15.9	15.9	16.8	18.0
	8H	15.7	16.5	16.6	17.4	18.6	15.7	16.5	16.6	17.4	18.6
	12H	16.3	17.1	17.2	18.0	19.2	16.3	17.1	17.2	18.0	19.2
4H	2H	10.2	11.1	11.1	12.0	13.2	10.2	11.1	11.1	12.0	13.2
	3H	13.2	14.0	14.1	15.0	16.2	13.2	14.0	14.1	15.0	16.2
	4H	14.8	15.5	15.7	16.4	17.7	14.8	15.5	15.7	16.4	17.7
	6H	16.3	16.9	17.2	17.9	19.1	16.3	16.9	17.2	17.9	19.1
	8H	17.0	17.6	17.9	18.6	19.8	17.0	17.6	17.9	18.6	19.8
	12H	17.7	18.3	18.7	19.3	20.5	17.7	18.3	18.7	19.3	20.5
8H	4H	15.3	15.9	16.2	16.8	18.1	15.3	15.9	16.2	16.8	18.1
	6H	17.0	17.5	17.9	18.5	19.7	17.0	17.5	17.9	18.5	19.7
	8H	17.8	18.3	18.8	19.3	20.6	17.8	18.3	18.8	19.3	20.6
	12H	18.7	19.2	19.7	20.2	21.5	18.7	19.2	19.7	20.2	21.5
12H	4H	15.3	15.9	16.3	16.9	18.1	15.3	15.9	16.3	16.9	18.1
	6H	17.1	17.6	18.1	18.6	19.9	17.1	17.6	18.1	18.6	19.9
	8H	18.1	18.5	19.1	19.5	20.8	18.1	18.5	19.1	19.5	20.8

(END OF REPORT)