

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: P1245019

Luminaire Tested: PRLX-NIM-L-927-20L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-NIM-L-927-20L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 6
Light Source: -
Ballast/Driver: -

Summary

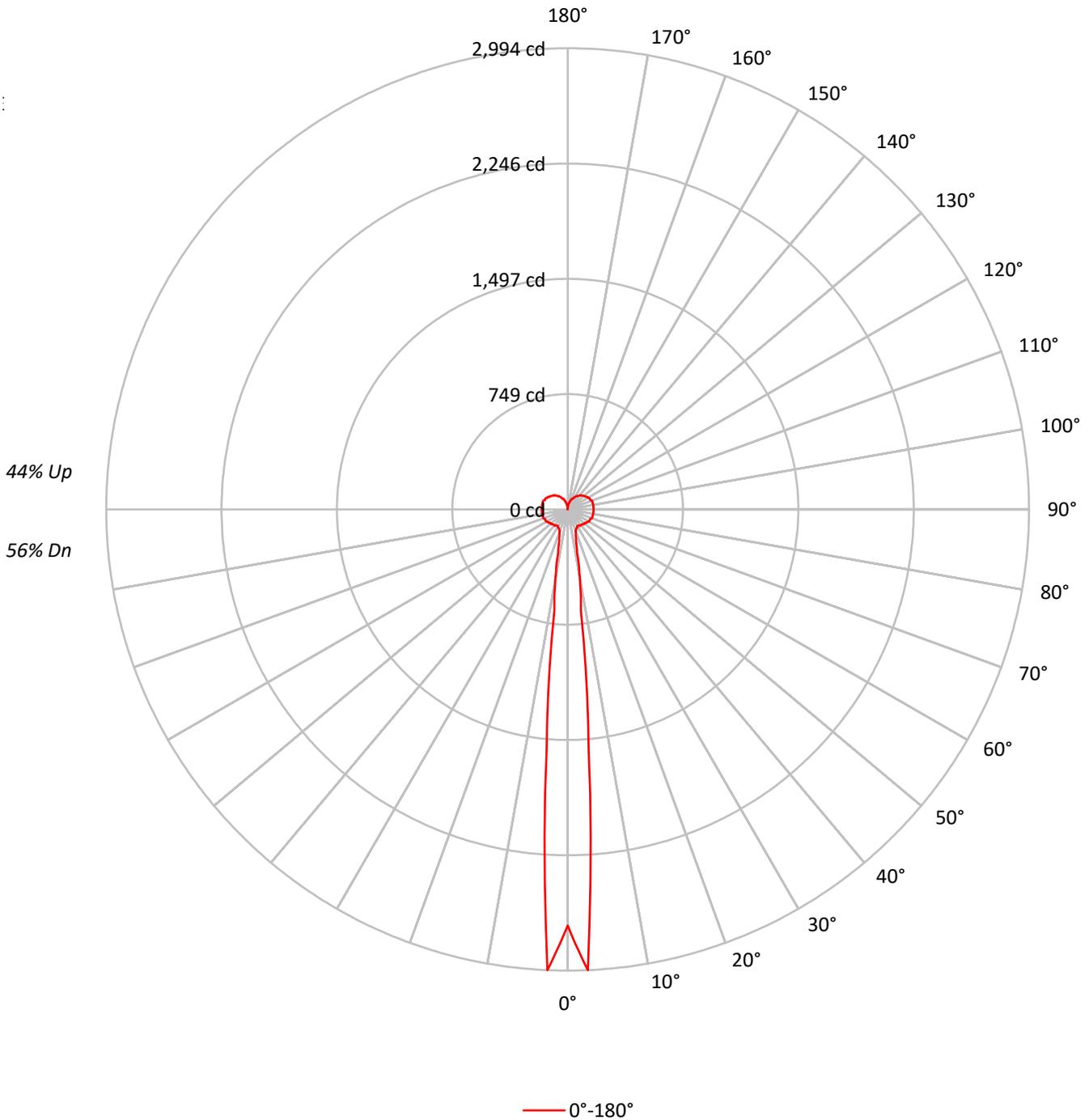
Lumens per Lamp: N/A
Luminaire Lumens: 1952.2 lumens
Efficiency: N/A
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 48.6
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	108	108	108	108	101	101	101	101	86	86	86		73	73	73		61	61	61	56
1	95	89	83	78	87	82	77	73	70	66	62		58	55	53		48	45	43	38
2	85	76	68	61	78	70	63	57	59	54	49		49	45	42		40	37	34	30
3	77	66	57	50	71	61	53	47	52	45	40		43	38	34		35	31	28	24
4	71	58	49	42	65	54	46	40	46	39	34		38	33	29		31	27	24	20
5	65	52	43	36	60	48	40	34	41	35	30		34	29	25		28	24	21	18
6	60	47	38	32	55	44	36	30	37	31	26		31	26	22		26	22	19	16
7	56	43	34	28	51	40	32	27	34	28	23		29	24	20		24	20	17	15
8	52	39	31	25	48	36	29	24	32	25	21		27	22	18		23	19	16	13
9	49	36	28	23	45	34	27	22	29	23	19		25	20	17		21	17	15	12
10	46	33	26	21	43	31	25	20	27	22	18		24	19	16		20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85447
5°	38691
10°	9214
15°	3652
20°	2315
25°	1850
30°	1586
35°	1472
40°	1475
45°	1401
50°	1428
55°	1463
60°	1507
65°	1483
70°	1548
75°	1546
80°	1557
85°	1580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1616 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	5.9
10°-20°	65.1	3.3
20°-30°	63.3	3.2
30°-40°	81.1	4.2
40°-50°	106.5	5.5
50°-60°	133.7	6.9
60°-70°	159.3	8.2
70°-80°	177.5	9.1
80°-90°	183.1	9.4
90°-100°	183.1	9.4
100°-110°	177.5	9.1
110°-120°	158.3	8.1
120°-130°	130.0	6.7
130°-140°	99.2	5.1
140°-150°	66.8	3.4
150°-160°	36.7	1.9
160°-170°	14.7	0.8
170°-180°	1.8	0.1
0°-30°	242.8	12.4
0°-40°	324.0	16.6
0°-60°	564.2	28.9
0°-90°	1084.1	55.5
90°-120°	518.9	26.6
90°-150°	814.9	41.7
90°-180°	868.0	44.5
0°-180°	1952.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2701	
5°	1569	114
15°	210	65
25°	134	63
35°	126	81
45°	134	106
55°	151	134
65°	159	159
75°	168	178
85°	168	137
90°	168	92
95°	168	137
105°	168	178
115°	159	158
125°	143	130
135°	126	99
145°	109	67
155°	76	37
165°	50	15
175°	8	2
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2700.9
2.5°	2994.5
5°	1568.6
7.5°	662.6
10°	453.0
12.5°	285.2
15°	209.7
17.5°	176.1
20°	151.0
22.5°	142.6
25°	134.2
27.5°	134.2
30°	125.8
32.5°	125.8
35°	125.8
37.5°	134.2
40°	134.2
42.5°	134.2
45°	134.2
47.5°	142.6
50°	142.6
52.5°	142.6
55°	151.0
57.5°	151.0
60°	159.4
62.5°	159.4
65°	159.4
67.5°	159.4
70°	167.8
72.5°	167.8
75°	167.8
77.5°	167.8
80°	167.8
82.5°	167.8
85°	167.8
87.5°	167.8
90°	167.8
92.5°	167.8
95°	167.8
97.5°	167.8
100°	167.8
102.5°	167.8
105°	167.8
107.5°	167.8
110°	167.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	159.4
115°	159.4
117.5°	159.4
120°	151.0
122.5°	151.0
125°	142.6
127.5°	142.6
130°	134.2
132.5°	134.2
135°	125.8
137.5°	125.8
140°	117.4
142.5°	109.0
145°	109.0
147.5°	100.7
150°	92.3
152.5°	83.9
155°	75.5
157.5°	75.5
160°	67.1
162.5°	58.7
165°	50.3
167.5°	41.9
170°	33.6
172.5°	25.2
175°	8.4
177.5°	0.0
180°	0.0



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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	8.8	9.8	9.7	10.7	11.9	8.8	9.8	9.7	10.7	11.9
	3H	11.8	12.8	12.7	13.7	14.9	11.8	12.8	12.7	13.7	14.9
	4H	13.3	14.2	14.2	15.2	16.4	13.3	14.2	14.2	15.2	16.4
	6H	14.8	15.6	15.7	16.6	17.8	14.8	15.6	15.7	16.6	17.8
	8H	15.4	16.3	16.4	17.2	18.4	15.4	16.3	16.4	17.2	18.4
	12H	16.1	16.9	17.0	17.8	19.1	16.1	16.9	17.0	17.8	19.1
4H	2H	9.6	10.5	10.5	11.4	12.6	9.6	10.5	10.5	11.4	12.6
	3H	12.8	13.6	13.7	14.6	15.8	12.8	13.6	13.7	14.6	15.8
	4H	14.5	15.2	15.4	16.1	17.4	14.5	15.2	15.4	16.1	17.4
	6H	16.0	16.7	17.0	17.7	18.9	16.0	16.7	17.0	17.7	18.9
	8H	16.8	17.4	17.8	18.4	19.7	16.8	17.4	17.8	18.4	19.7
	12H	17.6	18.2	18.5	19.1	20.4	17.6	18.2	18.5	19.1	20.4
8H	4H	15.0	15.6	15.9	16.6	17.8	15.0	15.6	15.9	16.6	17.8
	6H	16.8	17.3	17.7	18.3	19.6	16.8	17.3	17.7	18.3	19.6
	8H	17.7	18.2	18.7	19.2	20.4	17.7	18.2	18.7	19.2	20.4
	12H	18.6	19.1	19.6	20.1	21.4	18.6	19.1	19.6	20.1	21.4
12H	4H	15.1	15.7	16.1	16.6	17.9	15.1	15.7	16.1	16.6	17.9
	6H	17.0	17.4	17.9	18.4	19.7	17.0	17.4	17.9	18.4	19.7
	8H	17.9	18.4	18.9	19.4	20.7	17.9	18.4	18.9	19.4	20.7

(END OF REPORT)