

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: P1245028

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245028
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-927-27L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL LINES SHADE TEXTUF
LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

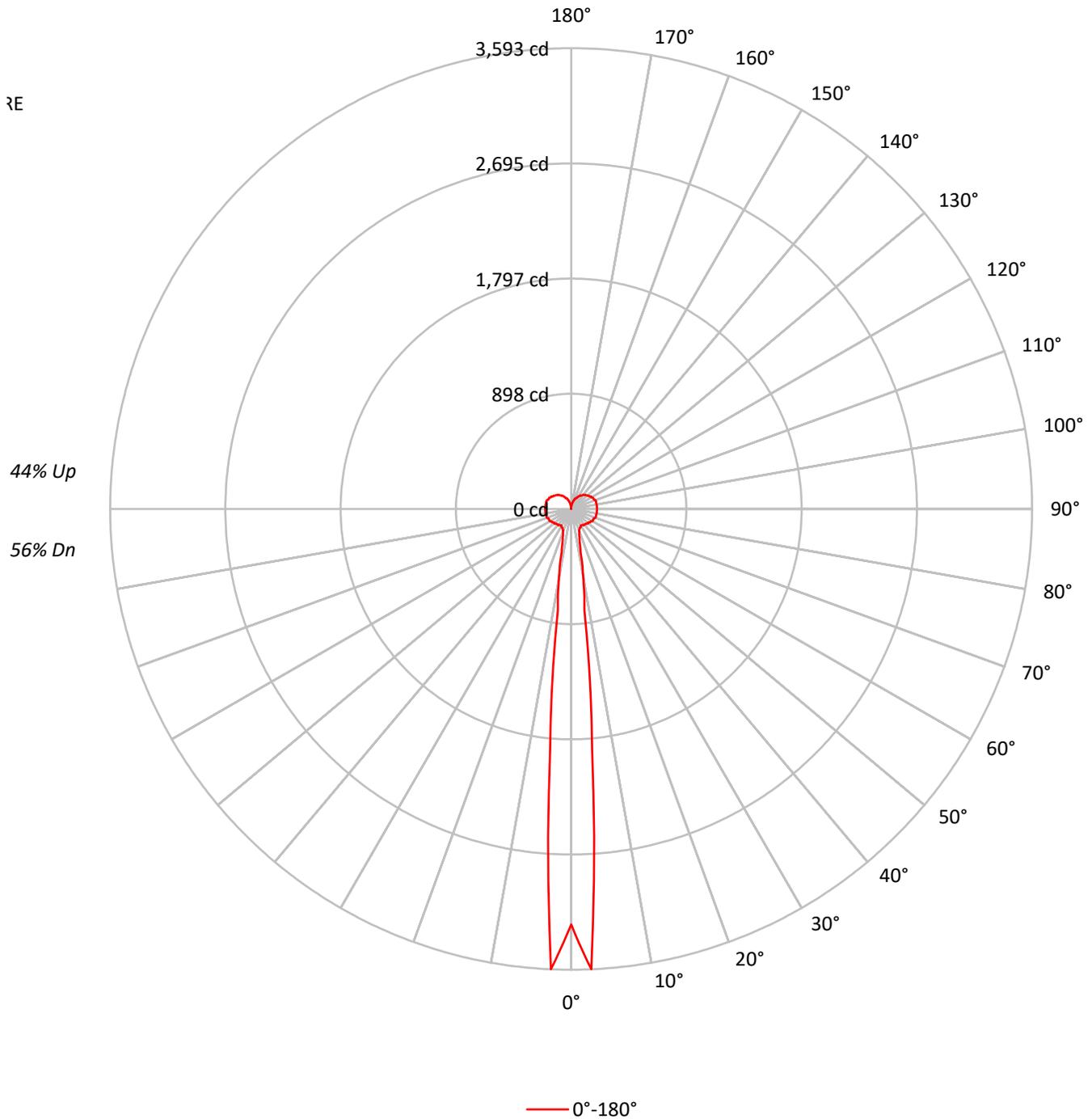
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2342.0 lumens
Efficiency: N/A
Efficacy: 33.7 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): 69.4
Input Voltage (V): NR
Input Current (Ain): 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°	102521
5°	46419
10°	11053
15°	4382
20°	2776
25°	2219
30°	1904
35°	1767
40°	1770
45°	1681
50°	1713
55°	1755
60°	1808
65°	1779
70°	1857
75°	1855
80°	1868
85°	1895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1938 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	5.9
10°-20°	78.1	3.3
20°-30°	75.9	3.2
30°-40°	97.4	4.2
40°-50°	127.8	5.5
50°-60°	160.4	6.8
60°-70°	191.1	8.2
70°-80°	213.0	9.1
80°-90°	219.6	9.4
90°-100°	219.6	9.4
100°-110°	213.0	9.1
110°-120°	189.9	8.1
120°-130°	155.9	6.7
130°-140°	119.1	5.1
140°-150°	80.1	3.4
150°-160°	44.0	1.9
160°-170°	17.7	0.8
170°-180°	2.2	0.1
0°-30°	291.4	12.4
0°-40°	388.7	16.6
0°-60°	676.9	28.9
0°-90°	1300.6	55.5
90°-120°	622.5	26.6
90°-150°	977.6	41.7
90°-180°	1041.0	44.4
0°-180°	2342.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3241	
5°	1882	137
15°	252	78
25°	161	76
35°	151	97
45°	161	128
55°	181	160
65°	191	191
75°	201	213
85°	201	164
90°	201	110
95°	201	164
105°	201	213
115°	191	190
125°	171	156
135°	151	119
145°	131	80
155°	91	44
165°	60	18
175°	10	2
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3240.6
2.5°	3592.8
5°	1881.9
7.5°	795.0
10°	543.4
12.5°	342.2
15°	251.6
17.5°	211.3
20°	181.1
22.5°	171.1
25°	161.0
27.5°	161.0
30°	151.0
32.5°	151.0
35°	151.0
37.5°	161.0
40°	161.0
42.5°	161.0
45°	161.0
47.5°	171.1
50°	171.1
52.5°	171.1
55°	181.1
57.5°	181.1
60°	191.2
62.5°	191.2
65°	191.2
67.5°	191.2
70°	201.3
72.5°	201.3
75°	201.3
77.5°	201.3
80°	201.3
82.5°	201.3
85°	201.3
87.5°	201.3
90°	201.3
92.5°	201.3
95°	201.3
97.5°	201.3
100°	201.3
102.5°	201.3
105°	201.3
107.5°	201.3
110°	201.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	191.2
115°	191.2
117.5°	191.2
120°	181.1
122.5°	181.1
125°	171.1
127.5°	171.1
130°	161.0
132.5°	161.0
135°	151.0
137.5°	151.0
140°	140.9
142.5°	130.8
145°	130.8
147.5°	120.8
150°	110.7
152.5°	100.6
155°	90.6
157.5°	90.6
160°	80.5
162.5°	70.4
165°	60.4
167.5°	50.3
170°	40.3
172.5°	30.2
175°	10.1
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	9.4	10.4	10.3	11.4	12.5	9.4	10.4	10.3	11.4	12.5
	3H	12.5	13.4	13.4	14.3	15.6	12.5	13.4	13.4	14.3	15.6
	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	17.2	18.4	15.4	16.2	16.3	17.2	18.4
	8H	16.1	16.9	17.0	17.9	19.1	16.1	16.9	17.0	17.9	19.1
	12H	16.7	17.5	17.7	18.5	19.7	16.7	17.5	17.7	18.5	19.7
4H	2H	10.2	11.1	11.1	12.0	13.2	10.2	11.1	11.1	12.0	13.2
	3H	13.5	14.2	14.4	15.2	16.4	13.5	14.2	14.4	15.2	16.4
	4H	15.1	15.8	16.0	16.8	18.0	15.1	15.8	16.0	16.8	18.0
	6H	16.7	17.3	17.6	18.3	19.6	16.7	17.3	17.6	18.3	19.6
	8H	17.5	18.1	18.4	19.0	20.3	17.5	18.1	18.4	19.0	20.3
	12H	18.2	18.8	19.2	19.8	21.0	18.2	18.8	19.2	19.8	21.0
8H	4H	15.6	16.2	16.6	17.2	18.5	15.6	16.2	16.6	17.2	18.5
	6H	17.4	17.9	18.4	18.9	20.2	17.4	17.9	18.4	18.9	20.2
	8H	18.3	18.8	19.3	19.8	21.1	18.3	18.8	19.3	19.8	21.1
	12H	19.3	19.7	20.2	20.7	22.0	19.3	19.7	20.2	20.7	22.0
12H	4H	15.7	16.3	16.7	17.3	18.5	15.7	16.3	16.7	17.3	18.5
	6H	17.6	18.1	18.6	19.1	20.4	17.6	18.1	18.6	19.1	20.4
	8H	18.6	19.0	19.6	20.0	21.3	18.6	19.0	19.6	20.0	21.3

(END OF REPORT)