

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: P1245027

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245027
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-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

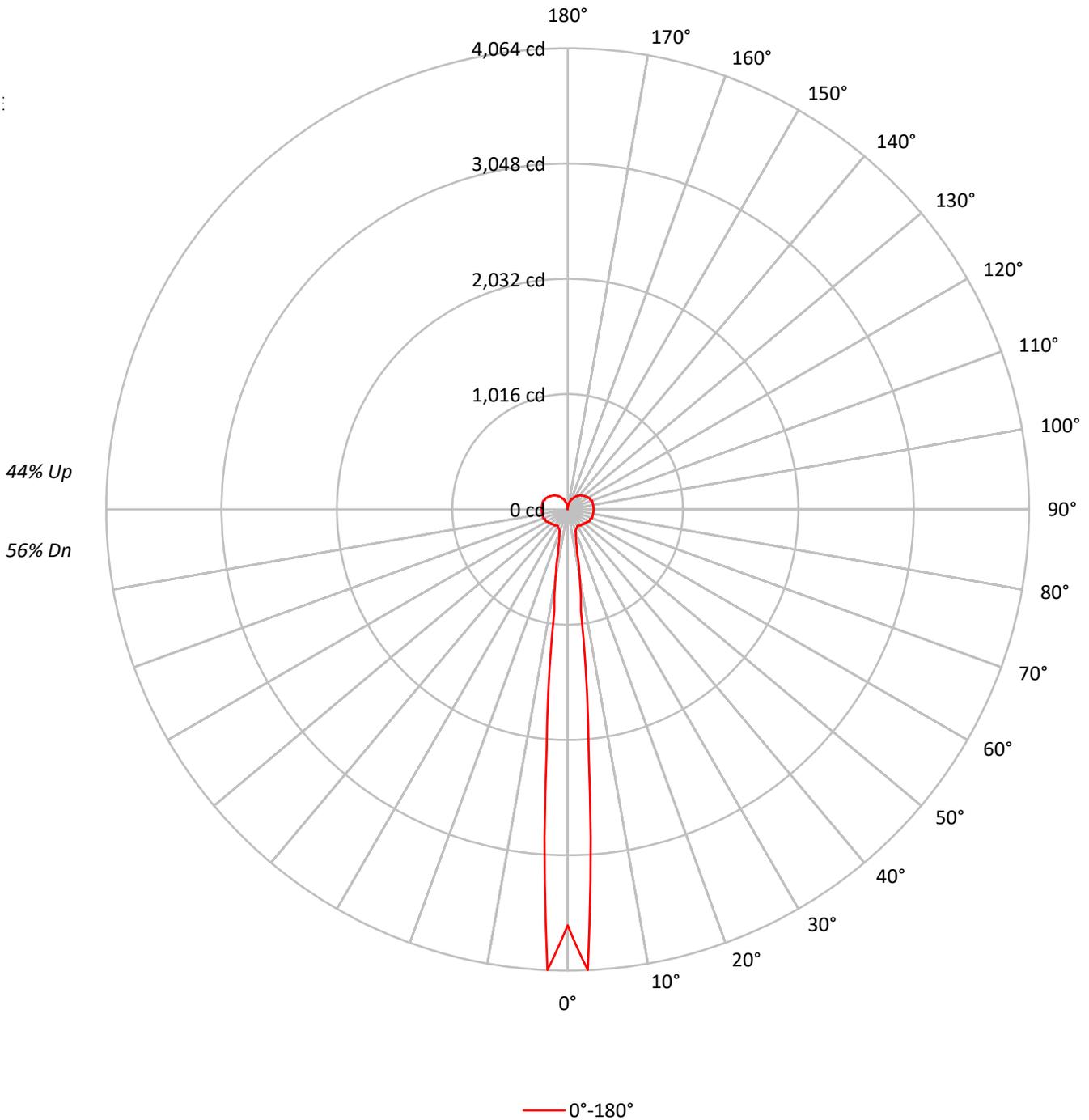
Lumens per Lamp: N/A
Luminaire Lumens: 2649.1 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 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°	115957
5°	52504
10°	12503
15°	4957
20°	3141
25°	2510
30°	2152
35°	1997
40°	2002
45°	1901
50°	1937
55°	1985
60°	2045
65°	2012
70°	2100
75°	2098
80°	2113
85°	2144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 2192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	5.9
10°-20°	88.3	3.3
20°-30°	85.9	3.2
30°-40°	110.1	4.2
40°-50°	144.5	5.5
50°-60°	181.5	6.9
60°-70°	216.2	8.2
70°-80°	240.9	9.1
80°-90°	248.4	9.4
90°-100°	248.4	9.4
100°-110°	240.9	9.1
110°-120°	214.8	8.1
120°-130°	176.4	6.7
130°-140°	134.7	5.1
140°-150°	90.7	3.4
150°-160°	49.8	1.9
160°-170°	20.0	0.8
170°-180°	2.4	0.1
0°-30°	329.5	12.4
0°-40°	439.7	16.6
0°-60°	765.6	28.9
0°-90°	1471.1	55.5
90°-120°	704.1	26.6
90°-150°	1105.8	41.7
90°-180°	1178.0	44.5
0°-180°	2649.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3665	
5°	2129	155
15°	285	88
25°	182	86
35°	171	110
45°	182	145
55°	205	181
65°	216	216
75°	228	241
85°	228	186
90°	228	125
95°	228	186
105°	228	241
115°	216	215
125°	194	176
135°	171	135
145°	148	91
155°	102	50
165°	68	20
175°	11	2
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3665.3
2.5°	4063.8
5°	2128.6
7.5°	899.3
10°	614.7
12.5°	387.0
15°	284.6
17.5°	239.0
20°	204.9
22.5°	193.5
25°	182.1
27.5°	182.1
30°	170.7
32.5°	170.7
35°	170.7
37.5°	182.1
40°	182.1
42.5°	182.1
45°	182.1
47.5°	193.5
50°	193.5
52.5°	193.5
55°	204.9
57.5°	204.9
60°	216.3
62.5°	216.3
65°	216.3
67.5°	216.3
70°	227.7
72.5°	227.7
75°	227.7
77.5°	227.7
80°	227.7
82.5°	227.7
85°	227.7
87.5°	227.7
90°	227.7
92.5°	227.7
95°	227.7
97.5°	227.7
100°	227.7
102.5°	227.7
105°	227.7
107.5°	227.7
110°	227.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	216.3
115°	216.3
117.5°	216.3
120°	204.9
122.5°	204.9
125°	193.5
127.5°	193.5
130°	182.1
132.5°	182.1
135°	170.7
137.5°	170.7
140°	159.4
142.5°	148.0
145°	148.0
147.5°	136.6
150°	125.2
152.5°	113.8
155°	102.4
157.5°	102.4
160°	91.1
162.5°	79.7
165°	68.3
167.5°	56.9
170°	45.5
172.5°	34.1
175°	11.4
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	9.8	10.9	10.7	11.8	13.0	9.8	10.9	10.7	11.8	13.0
	3H	12.9	13.8	13.8	14.8	16.0	12.9	13.8	13.8	14.8	16.0
	4H	14.4	15.3	15.3	16.2	17.4	14.4	15.3	15.3	16.2	17.4
	6H	15.8	16.7	16.7	17.6	18.8	15.8	16.7	16.7	17.6	18.8
	8H	16.5	17.3	17.4	18.3	19.5	16.5	17.3	17.4	18.3	19.5
	12H	17.2	18.0	18.1	18.9	20.2	17.2	18.0	18.1	18.9	20.2
4H	2H	10.6	11.5	11.5	12.5	13.7	10.6	11.5	11.5	12.5	13.7
	3H	13.9	14.7	14.8	15.6	16.9	13.9	14.7	14.8	15.6	16.9
	4H	15.5	16.3	16.4	17.2	18.5	15.5	16.3	16.4	17.2	18.5
	6H	17.1	17.8	18.0	18.7	20.0	17.1	17.8	18.0	18.7	20.0
	8H	17.9	18.5	18.8	19.5	20.7	17.9	18.5	18.8	19.5	20.7
	12H	18.6	19.2	19.6	20.2	21.5	18.6	19.2	19.6	20.2	21.5
8H	4H	16.0	16.7	17.0	17.6	18.9	16.0	16.7	17.0	17.6	18.9
	6H	17.8	18.4	18.8	19.4	20.6	17.8	18.4	18.8	19.4	20.6
	8H	18.7	19.2	19.7	20.2	21.5	18.7	19.2	19.7	20.2	21.5
	12H	19.7	20.1	20.7	21.1	22.4	19.7	20.1	20.7	21.1	22.4
12H	4H	16.1	16.7	17.1	17.7	19.0	16.1	16.7	17.1	17.7	19.0
	6H	18.0	18.5	19.0	19.5	20.8	18.0	18.5	19.0	19.5	20.8
	8H	19.0	19.4	20.0	20.4	21.8	19.0	19.4	20.0	20.4	21.8

(END OF REPORT)