

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: P1245119

Luminaire Tested: PRLX-NIM-L-940-23L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245119
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-940-23L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 7
Light Source: -
Ballast/Driver: -

Summary

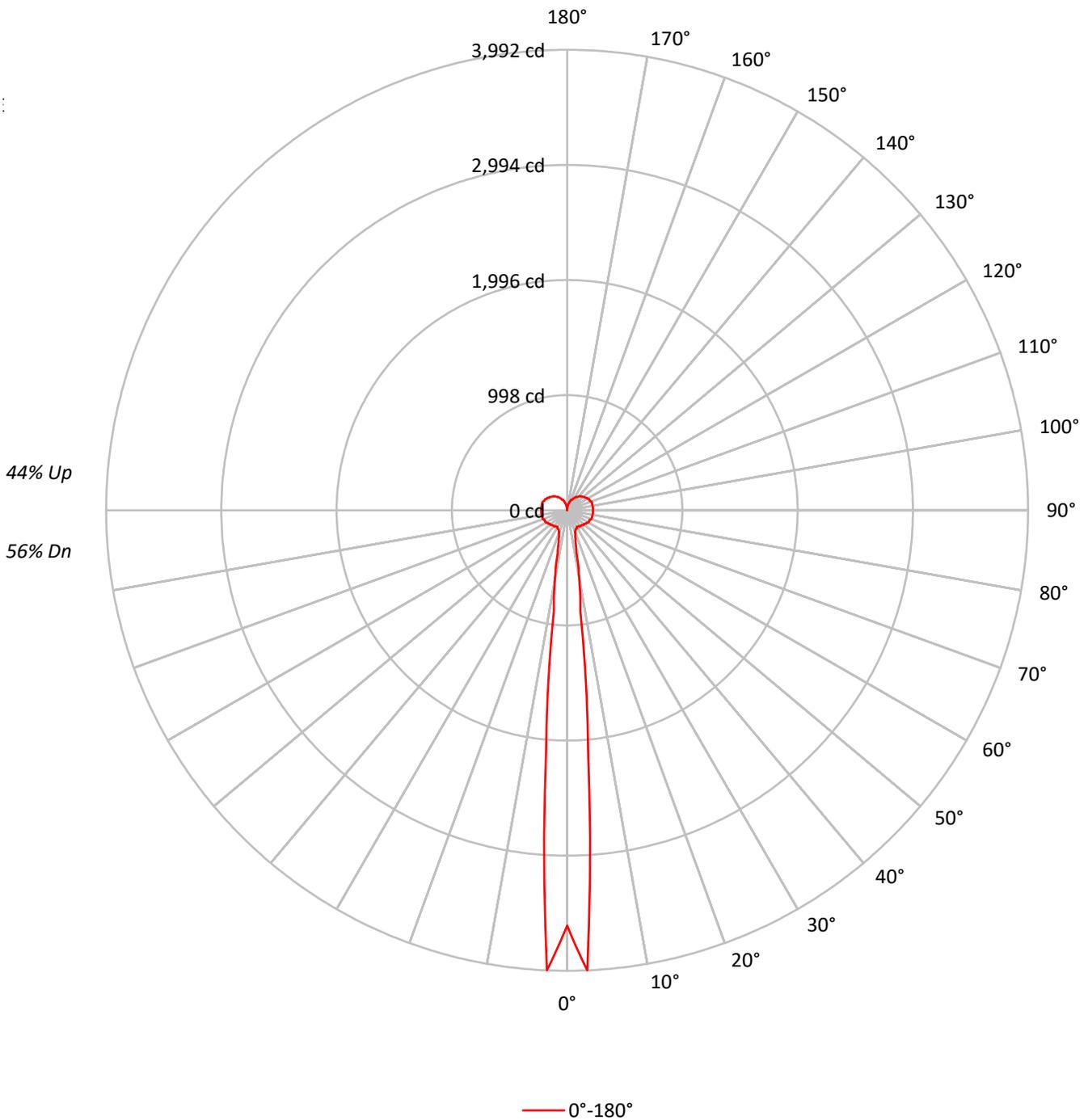
Lumens per Lamp: N/A
Luminaire Lumens: 2601.9 lumens
Efficiency: N/A
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 58.2
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°	113900
5°	51574
10°	12281
15°	4868
20°	3086
25°	2466
30°	2115
35°	1962
40°	1966
45°	1868
50°	1903
55°	1950
60°	2008
65°	1976
70°	2062
75°	2061
80°	2075
85°	2105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 2153 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	5.9
10°-20°	86.7	3.3
20°-30°	84.4	3.2
30°-40°	108.2	4.2
40°-50°	142.0	5.5
50°-60°	178.3	6.9
60°-70°	212.3	8.2
70°-80°	236.5	9.1
80°-90°	244.0	9.4
90°-100°	244.0	9.4
100°-110°	236.5	9.1
110°-120°	210.9	8.1
120°-130°	173.3	6.7
130°-140°	132.3	5.1
140°-150°	89.1	3.4
150°-160°	48.9	1.9
160°-170°	19.7	0.8
170°-180°	2.4	0.1
0°-30°	323.7	12.4
0°-40°	431.9	16.6
0°-60°	752.1	28.9
0°-90°	1444.9	55.5
90°-120°	691.4	26.6
90°-150°	1086.0	41.7
90°-180°	1157.0	44.5
0°-180°	2601.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3600	
5°	2091	153
15°	280	87
25°	179	84
35°	168	108
45°	179	142
55°	201	178
65°	212	212
75°	224	237
85°	224	183
90°	224	123
95°	224	183
105°	224	237
115°	212	211
125°	190	173
135°	168	132
145°	145	89
155°	101	49
165°	67	20
175°	11	2
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3600.3
2.5°	3991.7
5°	2090.9
7.5°	883.3
10°	603.8
12.5°	380.2
15°	279.5
17.5°	234.8
20°	201.3
22.5°	190.1
25°	178.9
27.5°	178.9
30°	167.7
32.5°	167.7
35°	167.7
37.5°	178.9
40°	178.9
42.5°	178.9
45°	178.9
47.5°	190.1
50°	190.1
52.5°	190.1
55°	201.3
57.5°	201.3
60°	212.4
62.5°	212.4
65°	212.4
67.5°	212.4
70°	223.6
72.5°	223.6
75°	223.6
77.5°	223.6
80°	223.6
82.5°	223.6
85°	223.6
87.5°	223.6
90°	223.6
92.5°	223.6
95°	223.6
97.5°	223.6
100°	223.6
102.5°	223.6
105°	223.6
107.5°	223.6
110°	223.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	212.4
115°	212.4
117.5°	212.4
120°	201.3
122.5°	201.3
125°	190.1
127.5°	190.1
130°	178.9
132.5°	178.9
135°	167.7
137.5°	167.7
140°	156.5
142.5°	145.4
145°	145.4
147.5°	134.2
150°	123.0
152.5°	111.8
155°	100.6
157.5°	100.6
160°	89.4
162.5°	78.3
165°	67.1
167.5°	55.9
170°	44.7
172.5°	33.5
175°	11.2
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	10.8	10.7	11.7	12.9	9.8	10.8	10.7	11.7	12.9
	3H	12.8	13.8	13.7	14.7	15.9	12.8	13.8	13.7	14.7	15.9
	4H	14.3	15.2	15.2	16.2	17.4	14.3	15.2	15.2	16.2	17.4
	6H	15.8	16.6	16.7	17.6	18.8	15.8	16.6	16.7	17.6	18.8
	8H	16.4	17.3	17.4	18.2	19.4	16.4	17.3	17.4	18.2	19.4
	12H	17.1	17.9	18.0	18.8	20.1	17.1	17.9	18.0	18.8	20.1
4H	2H	10.6	11.5	11.5	12.4	13.6	10.6	11.5	11.5	12.4	13.6
	3H	13.8	14.6	14.7	15.6	16.8	13.8	14.6	14.7	15.6	16.8
	4H	15.4	16.2	16.4	17.1	18.4	15.4	16.2	16.4	17.1	18.4
	6H	17.0	17.7	18.0	18.7	19.9	17.0	17.7	18.0	18.7	19.9
	8H	17.8	18.4	18.8	19.4	20.7	17.8	18.4	18.8	19.4	20.7
	12H	18.6	19.1	19.5	20.1	21.4	18.6	19.1	19.5	20.1	21.4
8H	4H	16.0	16.6	16.9	17.6	18.8	16.0	16.6	16.9	17.6	18.8
	6H	17.8	18.3	18.7	19.3	20.6	17.8	18.3	18.7	19.3	20.6
	8H	18.7	19.2	19.7	20.2	21.4	18.7	19.2	19.7	20.2	21.4
	12H	19.6	20.1	20.6	21.1	22.4	19.6	20.1	20.6	21.1	22.4
12H	4H	16.1	16.7	17.0	17.6	18.9	16.1	16.7	17.0	17.6	18.9
	6H	18.0	18.4	18.9	19.4	20.7	18.0	18.4	18.9	19.4	20.7
	8H	18.9	19.4	19.9	20.4	21.7	18.9	19.4	19.9	20.4	21.7

(END OF REPORT)