

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: P1245114

Luminaire Tested: PRLX-NIM-L-940-16L-U-WO

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245114
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-940-16L-U-WO
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, WOVEN OVAL SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

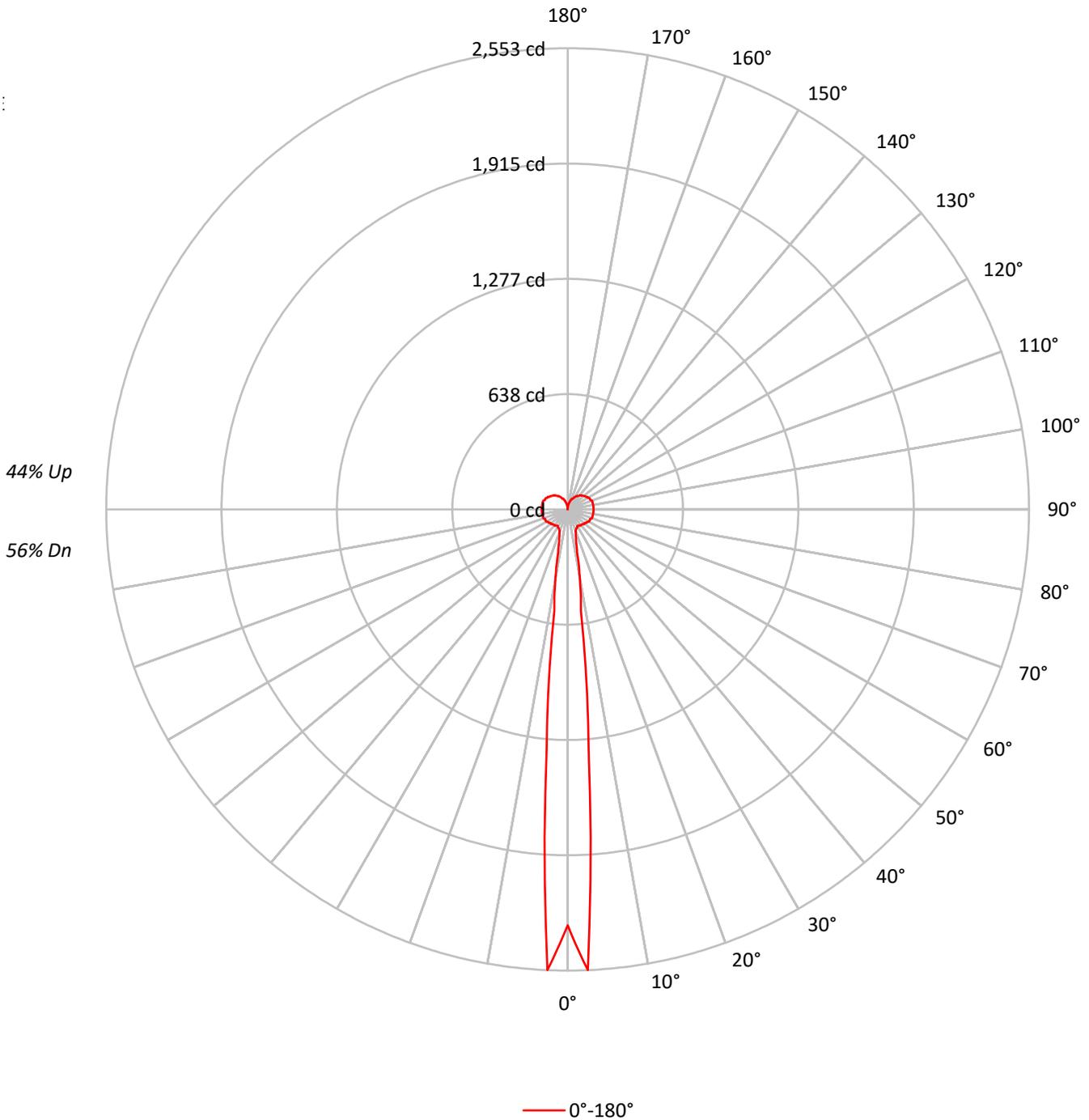
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1664.1 lumens
Efficiency: N/A
Efficacy: 42.9 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): 38.8
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°	72840
5°	32981
10°	7853
15°	3114
20°	1973
25°	1577
30°	1353
35°	1255
40°	1257
45°	1194
50°	1217
55°	1247
60°	1285
65°	1264
70°	1319
75°	1318
80°	1327
85°	1346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	5.9
10°-20°	55.5	3.3
20°-30°	53.9	3.2
30°-40°	69.2	4.2
40°-50°	90.8	5.5
50°-60°	114.0	6.9
60°-70°	135.8	8.2
70°-80°	151.3	9.1
80°-90°	156.0	9.4
90°-100°	156.0	9.4
100°-110°	151.3	9.1
110°-120°	134.9	8.1
120°-130°	110.8	6.7
130°-140°	84.6	5.1
140°-150°	57.0	3.4
150°-160°	31.3	1.9
160°-170°	12.6	0.8
170°-180°	1.5	0.1
0°-30°	207.0	12.4
0°-40°	276.2	16.6
0°-60°	481.0	28.9
0°-90°	924.1	55.5
90°-120°	442.2	26.6
90°-150°	694.6	41.7
90°-180°	740.0	44.5
0°-180°	1664.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2302	
5°	1337	98
15°	179	55
25°	114	54
35°	107	69
45°	114	91
55°	129	114
65°	136	136
75°	143	151
85°	143	117
90°	143	78
95°	143	117
105°	143	151
115°	136	135
125°	122	111
135°	107	85
145°	93	57
155°	64	31
165°	43	13
175°	7	2
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2302.4
2.5°	2552.7
5°	1337.1
7.5°	564.9
10°	386.1
12.5°	243.1
15°	178.8
17.5°	150.2
20°	128.7
22.5°	121.6
25°	114.4
27.5°	114.4
30°	107.3
32.5°	107.3
35°	107.3
37.5°	114.4
40°	114.4
42.5°	114.4
45°	114.4
47.5°	121.6
50°	121.6
52.5°	121.6
55°	128.7
57.5°	128.7
60°	135.9
62.5°	135.9
65°	135.9
67.5°	135.9
70°	143.0
72.5°	143.0
75°	143.0
77.5°	143.0
80°	143.0
82.5°	143.0
85°	143.0
87.5°	143.0
90°	143.0
92.5°	143.0
95°	143.0
97.5°	143.0
100°	143.0
102.5°	143.0
105°	143.0
107.5°	143.0
110°	143.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	135.9
115°	135.9
117.5°	135.9
120°	128.7
122.5°	128.7
125°	121.6
127.5°	121.6
130°	114.4
132.5°	114.4
135°	107.3
137.5°	107.3
140°	100.1
142.5°	93.0
145°	93.0
147.5°	85.8
150°	78.7
152.5°	71.5
155°	64.4
157.5°	64.4
160°	57.2
162.5°	50.1
165°	42.9
167.5°	35.8
170°	28.6
172.5°	21.5
175°	7.2
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	8.2	9.2	9.1	10.2	11.4	8.2	9.2	9.1	10.2	11.4
	3H	11.3	12.2	12.2	13.2	14.4	11.3	12.2	12.2	13.2	14.4
	4H	12.8	13.7	13.7	14.6	15.8	12.8	13.7	13.7	14.6	15.8
	6H	14.2	15.1	15.1	16.0	17.2	14.2	15.1	15.1	16.0	17.2
	8H	14.9	15.7	15.8	16.7	17.9	14.9	15.7	15.8	16.7	17.9
	12H	15.6	16.3	16.5	17.3	18.5	15.6	16.3	16.5	17.3	18.5
4H	2H	9.0	9.9	9.9	10.9	12.1	9.0	9.9	9.9	10.9	12.1
	3H	12.3	13.1	13.2	14.0	15.3	12.3	13.1	13.2	14.0	15.3
	4H	13.9	14.6	14.8	15.6	16.8	13.9	14.6	14.8	15.6	16.8
	6H	15.5	16.1	16.4	17.1	18.4	15.5	16.1	16.4	17.1	18.4
	8H	16.3	16.9	17.2	17.9	19.1	16.3	16.9	17.2	17.9	19.1
	12H	17.0	17.6	18.0	18.6	19.9	17.0	17.6	18.0	18.6	19.9
8H	4H	14.4	15.0	15.4	16.0	17.3	14.4	15.0	15.4	16.0	17.3
	6H	16.2	16.7	17.2	17.8	19.0	16.2	16.7	17.2	17.8	19.0
	8H	17.1	17.6	18.1	18.6	19.9	17.1	17.6	18.1	18.6	19.9
	12H	18.1	18.5	19.0	19.5	20.8	18.1	18.5	19.0	19.5	20.8
12H	4H	14.5	15.1	15.5	16.1	17.4	14.5	15.1	15.5	16.1	17.4
	6H	16.4	16.9	17.4	17.9	19.2	16.4	16.9	17.4	17.9	19.2
	8H	17.4	17.8	18.4	18.8	20.1	17.4	17.8	18.4	18.8	20.1

(END OF REPORT)