

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: P1245126

Luminaire Tested: PRLX-NIM-L-940-27L-U-WO

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245126
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-940-27L-U-WO
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, WOVEN OVAL SHADE TEXTURE
LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

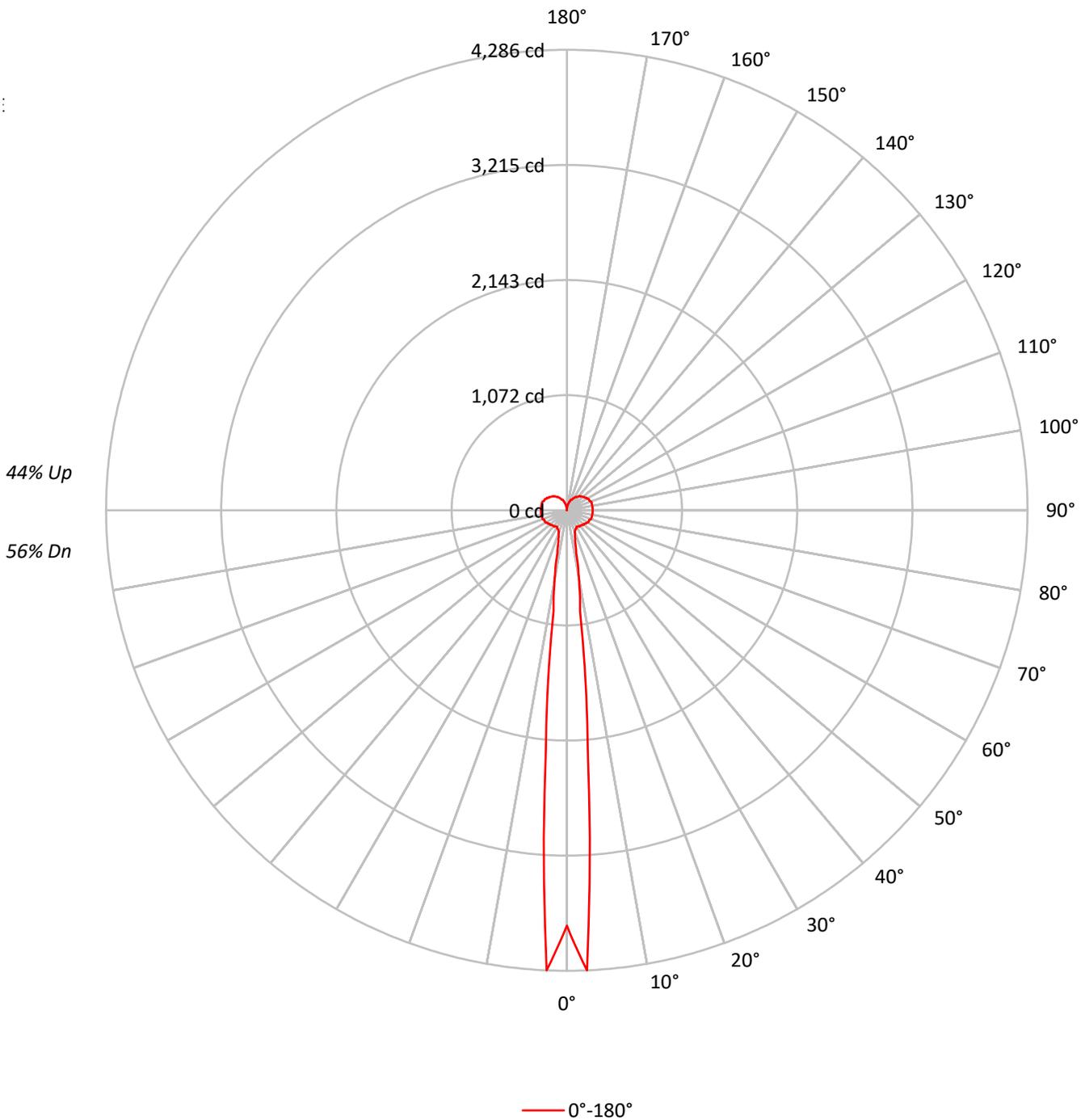
Lumens per Lamp: N/A
Luminaire Lumens: 2793.9 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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°	122306
5°	55378
10°	13186
15°	5229
20°	3313
25°	2648
30°	2271
35°	2107
40°	2111
45°	2005
50°	2043
55°	2094
60°	2157
65°	2122
70°	2215
75°	2213
80°	2228
85°	2260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 2312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	5.9
10°-20°	93.1	3.3
20°-30°	90.6	3.2
30°-40°	116.2	4.2
40°-50°	152.4	5.5
50°-60°	191.4	6.9
60°-70°	227.9	8.2
70°-80°	254.0	9.1
80°-90°	262.0	9.4
90°-100°	262.0	9.4
100°-110°	254.0	9.1
110°-120°	226.5	8.1
120°-130°	186.0	6.7
130°-140°	142.1	5.1
140°-150°	95.6	3.4
150°-160°	52.5	1.9
160°-170°	21.1	0.8
170°-180°	2.6	0.1
0°-30°	347.6	12.4
0°-40°	463.8	16.6
0°-60°	807.6	28.9
0°-90°	1551.5	55.5
90°-120°	742.5	26.6
90°-150°	1166.2	41.7
90°-180°	1242.0	44.5
0°-180°	2793.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3866	
5°	2245	164
15°	300	93
25°	192	91
35°	180	116
45°	192	152
55°	216	191
65°	228	228
75°	240	254
85°	240	196
90°	240	132
95°	240	196
105°	240	254
115°	228	227
125°	204	186
135°	180	142
145°	156	96
155°	108	53
165°	72	21
175°	12	3
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3866.0
2.5°	4286.2
5°	2245.1
7.5°	948.5
10°	648.3
12.5°	408.2
15°	300.2
17.5°	252.1
20°	216.1
22.5°	204.1
25°	192.1
27.5°	192.1
30°	180.1
32.5°	180.1
35°	180.1
37.5°	192.1
40°	192.1
42.5°	192.1
45°	192.1
47.5°	204.1
50°	204.1
52.5°	204.1
55°	216.1
57.5°	216.1
60°	228.1
62.5°	228.1
65°	228.1
67.5°	228.1
70°	240.1
72.5°	240.1
75°	240.1
77.5°	240.1
80°	240.1
82.5°	240.1
85°	240.1
87.5°	240.1
90°	240.1
92.5°	240.1
95°	240.1
97.5°	240.1
100°	240.1
102.5°	240.1
105°	240.1
107.5°	240.1
110°	240.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	228.1
115°	228.1
117.5°	228.1
120°	216.1
122.5°	216.1
125°	204.1
127.5°	204.1
130°	192.1
132.5°	192.1
135°	180.1
137.5°	180.1
140°	168.1
142.5°	156.1
145°	156.1
147.5°	144.1
150°	132.1
152.5°	120.1
155°	108.1
157.5°	108.1
160°	96.0
162.5°	84.0
165°	72.0
167.5°	60.0
170°	48.0
172.5°	36.0
175°	12.0
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	10.0	11.0	10.9	12.0	13.2	10.0	11.0	10.9	12.0	13.2
	3H	13.1	14.0	14.0	15.0	16.2	13.1	14.0	14.0	15.0	16.2
	4H	14.6	15.5	15.5	16.4	17.6	14.6	15.5	15.5	16.4	17.6
	6H	16.0	16.9	16.9	17.8	19.0	16.0	16.9	16.9	17.8	19.0
	8H	16.7	17.5	17.6	18.5	19.7	16.7	17.5	17.6	18.5	19.7
	12H	17.4	18.1	18.3	19.1	20.3	17.4	18.1	18.3	19.1	20.3
4H	2H	10.8	11.7	11.7	12.7	13.9	10.8	11.7	11.7	12.7	13.9
	3H	14.1	14.9	15.0	15.8	17.1	14.1	14.9	15.0	15.8	17.1
	4H	15.7	16.4	16.6	17.4	18.6	15.7	16.4	16.6	17.4	18.6
	6H	17.3	17.9	18.2	18.9	20.2	17.3	17.9	18.2	18.9	20.2
	8H	18.1	18.7	19.0	19.7	20.9	18.1	18.7	19.0	19.7	20.9
	12H	18.8	19.4	19.8	20.4	21.7	18.8	19.4	19.8	20.4	21.7
8H	4H	16.2	16.8	17.2	17.8	19.1	16.2	16.8	17.2	17.8	19.1
	6H	18.0	18.5	19.0	19.6	20.8	18.0	18.5	19.0	19.6	20.8
	8H	18.9	19.4	19.9	20.4	21.7	18.9	19.4	19.9	20.4	21.7
	12H	19.9	20.3	20.9	21.3	22.6	19.9	20.3	20.9	21.3	22.6
12H	4H	16.3	16.9	17.3	17.9	19.2	16.3	16.9	17.3	17.9	19.2
	6H	18.2	18.7	19.2	19.7	21.0	18.2	18.7	19.2	19.7	21.0
	8H	19.2	19.6	20.2	20.6	21.9	19.2	19.6	20.2	20.6	21.9

(END OF REPORT)