

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: P1245091

Luminaire Tested: PRLX-NIM-L-935-27L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245091
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-935-27L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

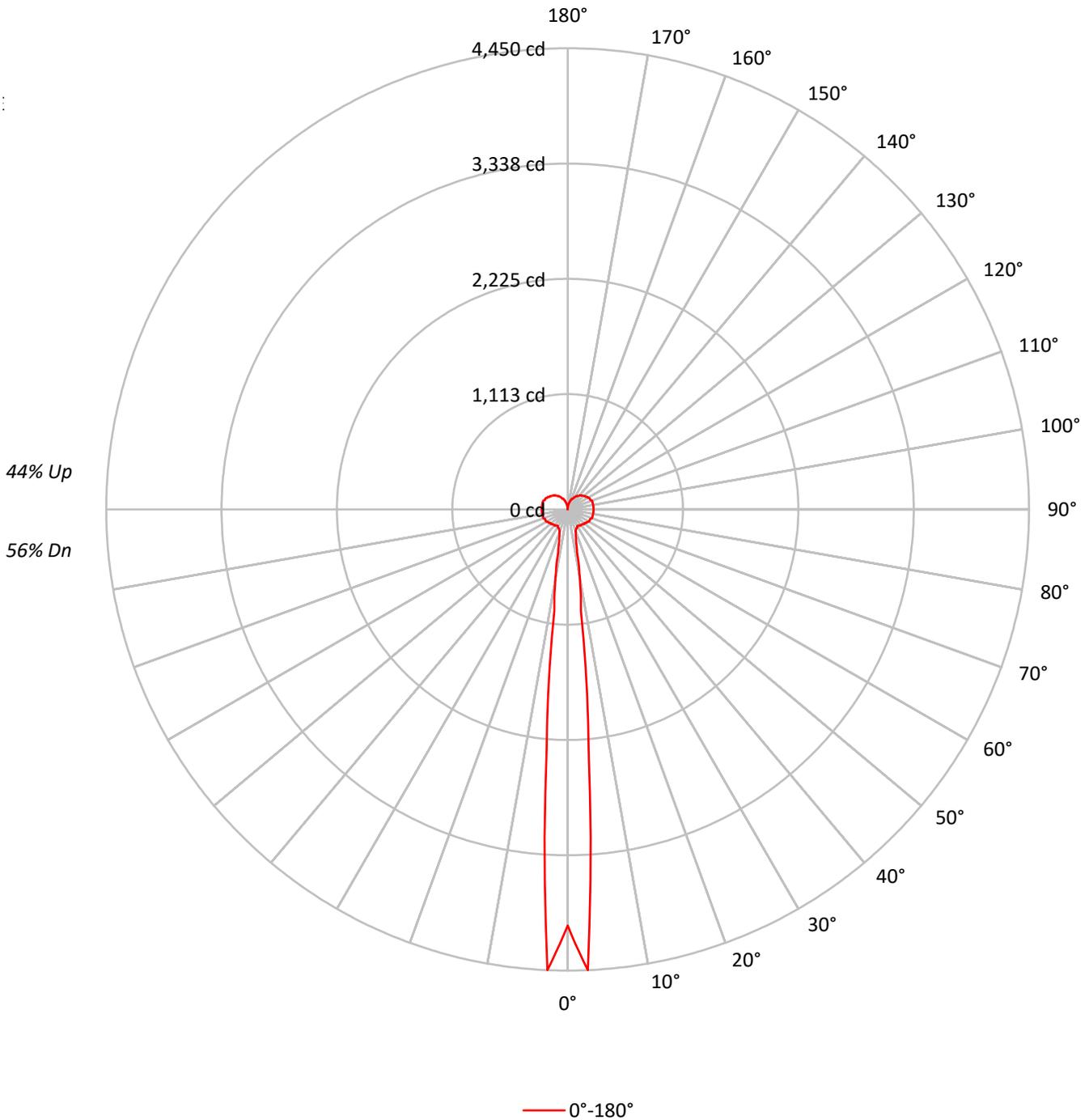
Lumens per Lamp: N/A
Luminaire Lumens: 2901.1 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 69.4
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1245091

CATALOG NUMBER: PRLX-NIM-L-935-27L-U-LF

Luminous Intensity Polar Plot





TEST NUMBER: P1245091

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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°	126988
5°	57499
10°	13693
15°	5427
20°	3440
25°	2750
30°	2358
35°	2188
40°	2193
45°	2083
50°	2121
55°	2174
60°	2240
65°	2204
70°	2300
75°	2298
80°	2313
85°	2347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 2400 cd/sqm



TEST NUMBER: P1245091

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	5.9
10°-20°	96.7	3.3
20°-30°	94.1	3.2
30°-40°	120.6	4.2
40°-50°	158.3	5.5
50°-60°	198.7	6.9
60°-70°	236.7	8.2
70°-80°	263.7	9.1
80°-90°	272.0	9.4
90°-100°	272.0	9.4
100°-110°	263.7	9.1
110°-120°	235.2	8.1
120°-130°	193.1	6.7
130°-140°	147.5	5.1
140°-150°	99.3	3.4
150°-160°	54.5	1.9
160°-170°	21.9	0.8
170°-180°	2.7	0.1
0°-30°	360.9	12.4
0°-40°	481.5	16.6
0°-60°	838.6	28.9
0°-90°	1611.0	55.5
90°-120°	771.0	26.6
90°-150°	1210.9	41.7
90°-180°	1290.0	44.5
0°-180°	2901.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4014	
5°	2331	170
15°	312	97
25°	200	94
35°	187	121
45°	200	158
55°	224	199
65°	237	237
75°	249	264
85°	249	204
90°	249	137
95°	249	204
105°	249	264
115°	237	235
125°	212	193
135°	187	148
145°	162	99
155°	112	55
165°	75	22
175°	12	3
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4014.0
2.5°	4450.3
5°	2331.1
7.5°	984.8
10°	673.2
12.5°	423.8
15°	311.6
17.5°	261.8
20°	224.4
22.5°	211.9
25°	199.5
27.5°	199.5
30°	187.0
32.5°	187.0
35°	187.0
37.5°	199.5
40°	199.5
42.5°	199.5
45°	199.5
47.5°	211.9
50°	211.9
52.5°	211.9
55°	224.4
57.5°	224.4
60°	236.9
62.5°	236.9
65°	236.9
67.5°	236.9
70°	249.3
72.5°	249.3
75°	249.3
77.5°	249.3
80°	249.3
82.5°	249.3
85°	249.3
87.5°	249.3
90°	249.3
92.5°	249.3
95°	249.3
97.5°	249.3
100°	249.3
102.5°	249.3
105°	249.3
107.5°	249.3
110°	249.3



TEST NUMBER: P1245091

CATALOG NUMBER: PRLX-NIM-L-935-27L-U-LF

CANDELA DISTRIBUTION (continued):

	0°
112.5°	236.9
115°	236.9
117.5°	236.9
120°	224.4
122.5°	224.4
125°	211.9
127.5°	211.9
130°	199.5
132.5°	199.5
135°	187.0
137.5°	187.0
140°	174.5
142.5°	162.1
145°	162.1
147.5°	149.6
150°	137.1
152.5°	124.7
155°	112.2
157.5°	112.2
160°	99.7
162.5°	87.3
165°	74.8
167.5°	62.3
170°	49.9
172.5°	37.4
175°	12.5
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	10.2	11.2	11.0	12.1	13.3	10.2	11.2	11.0	12.1	13.3
	3H	13.2	14.2	14.1	15.1	16.3	13.2	14.2	14.1	15.1	16.3
	4H	14.7	15.6	15.6	16.5	17.8	14.7	15.6	15.6	16.5	17.8
	6H	16.1	17.0	17.1	17.9	19.2	16.1	17.0	17.1	17.9	19.2
	8H	16.8	17.6	17.7	18.6	19.8	16.8	17.6	17.7	18.6	19.8
	12H	17.5	18.3	18.4	19.2	20.5	17.5	18.3	18.4	19.2	20.5
4H	2H	10.9	11.8	11.9	12.8	14.0	10.9	11.8	11.9	12.8	14.0
	3H	14.2	15.0	15.1	16.0	17.2	14.2	15.0	15.1	16.0	17.2
	4H	15.8	16.6	16.8	17.5	18.8	15.8	16.6	16.8	17.5	18.8
	6H	17.4	18.1	18.4	19.1	20.3	17.4	18.1	18.4	19.1	20.3
	8H	18.2	18.8	19.1	19.8	21.1	18.2	18.8	19.1	19.8	21.1
	12H	19.0	19.5	19.9	20.5	21.8	19.0	19.5	19.9	20.5	21.8
8H	4H	16.4	17.0	17.3	17.9	19.2	16.4	17.0	17.3	17.9	19.2
	6H	18.1	18.7	19.1	19.7	21.0	18.1	18.7	19.1	19.7	21.0
	8H	19.1	19.5	20.0	20.5	21.8	19.1	19.5	20.0	20.5	21.8
	12H	20.0	20.4	21.0	21.4	22.7	20.0	20.4	21.0	21.4	22.7
12H	4H	16.5	17.0	17.4	18.0	19.3	16.5	17.0	17.4	18.0	19.3
	6H	18.3	18.8	19.3	19.8	21.1	18.3	18.8	19.3	19.8	21.1
	8H	19.3	19.8	20.3	20.8	22.1	19.3	19.8	20.3	20.8	22.1

(END OF REPORT)